



All about components, where technology starts - KET

At the center of the digital technology stands KET, to make
the world more affluent and happier.

What KET creates is not limited to small electric components. KET is creating convenient
and limitless technology that can bring people together and connect to the other side of the world,
to make it as one. Core technologies usher people into better digital world.
the very future KET wants to deliver.

CONNECTORS

Why KET ?



KOREA ELECTRIC TERMINAL CO.,LTD.

We realize the highest customer satisfaction through providing the impeccable quality.

The first principle that KET pursues is perfect product with the best quality. As ways to achieve the goal, KET implemented QC programs in and out of the company, held seminars on similar technology, conducted non-defect activities and introduced a multi-purpose environmental testing machine, which aimed at delivering perfect quality and services.

As a result of various efforts, our quality management system is widely recognized by receiving a number of international quality certifications such as ISO9001, QS9000, TS16949 and ISO14001.



The Technology Power Plant for the Development of the Next Generation Components

KET boasts R&D specialists who account for more than 20% of total number of employees while investing over 10% of annual sales in R&D efforts annually. The R&D center started off with development of connectors used for automobiles, home appliances and communication. The center is making its utmost efforts to come up with new products including automotive integration module, mobile and optical communication components.

Adopting the attitude of “only the products with best quality and best technology will be created by KET”, the company is continuing its R&D efforts to develop the state-of-the-art products even at this moment.



Full Automation & High productivity

The production capability and technology of KET in manufacturing connectors have been accumulated for the past 42 years, which is highlighted by full automation of all production lines. The company is equipped with the newest manufacturing facilities such as a high-speed precision press line, a computer-controlled injection molding machine line. Moreover, KET secure competitiveness in cost and quality. Our advanced system allowing to manufacture various product types at small quantity, which the comprehensive management information system of KET enables customers to access any products at any time during the entire process from ordering to delivery.



PRODUCT LINEUP

KET, 人

: KOREA ELECTRIC TERMINAL CO., LTD. TRADE MARK



◆ Quality/Environmental Management System

1. Quality

: KS Q ISO9001:2009 / ISO9001:2008 (CERTIFICATION NO.: AC-00200)

: ISO/TS16949:2009 (CERTIFICATION NO.: TS-00200)

2. Environment

: KS I ISO14001:2009 / ISO14001:2004 (CERTIFICATION NO.: EAC-03977)

Certified

File No. LR60232

File No. LR61076

VDE

File No.19442-1432-1001/A2C

File No.19442-1431-0001/328BF

(Conforms to DIN/VDE:1991-09)



Listed

File No. E74253

File No. E78637

File No. E101181



TÜV Licensed

File No. R9154191

File No. R9154193

File No. R9154195

File No. R9154197

File No. R9154199

File No. R9254037

File No. R9254038

File No. R9254039

File No. R9554069

File No. R9554166

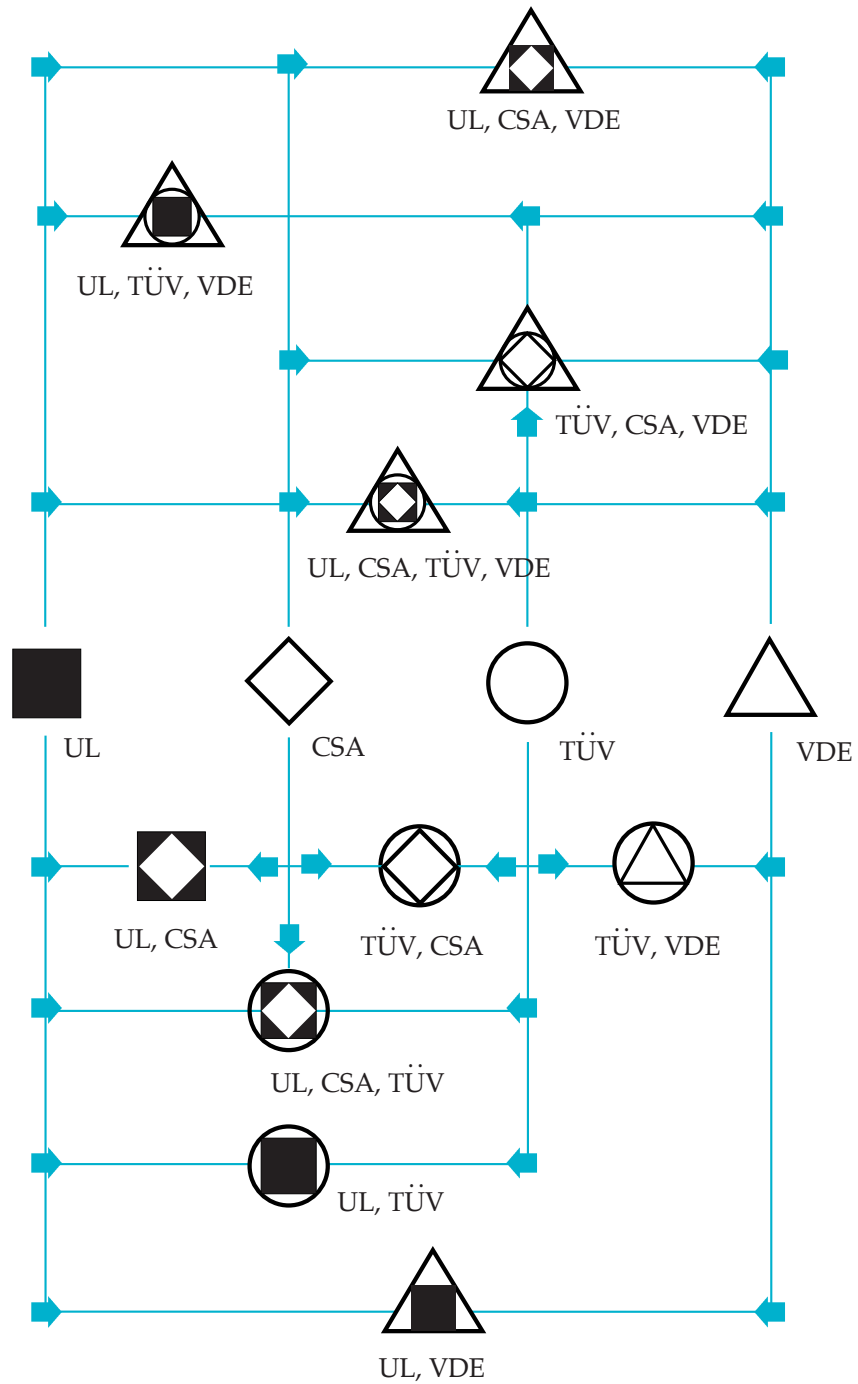
(Conforms to DIN/VDE 0627)

(Conforms to DIN/VDE 0470)

LINEUP

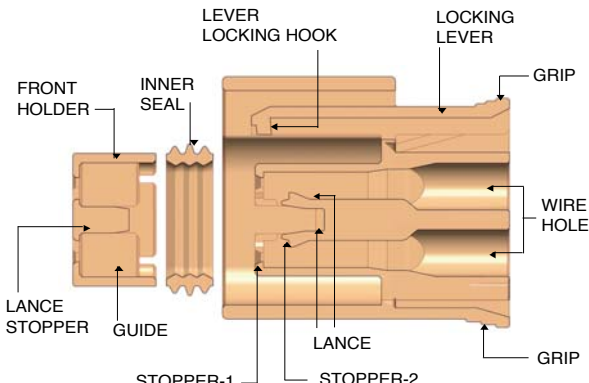
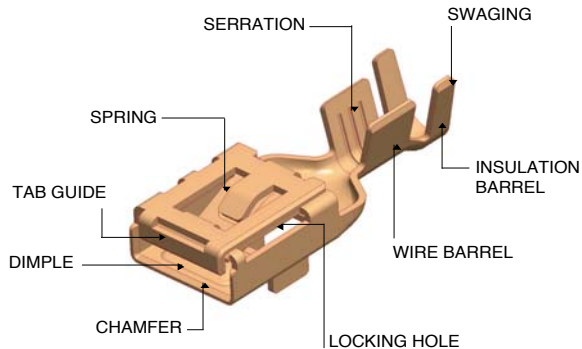
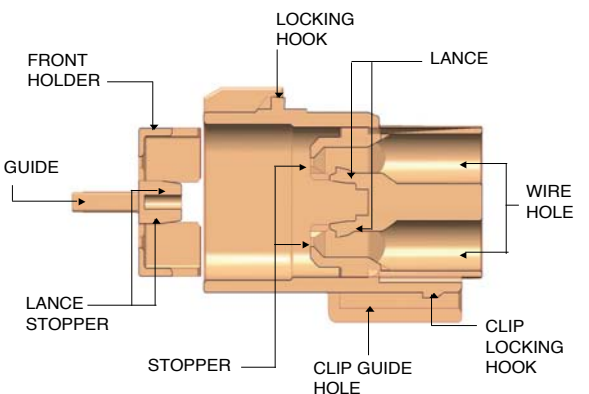
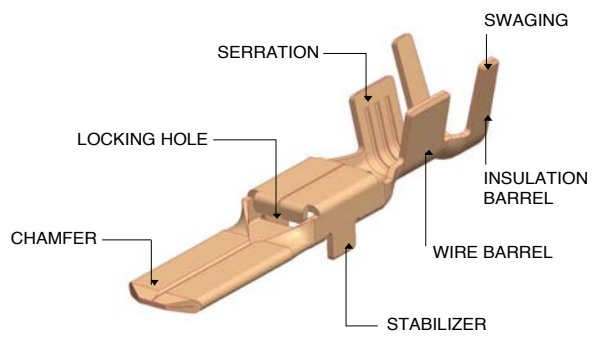


VDE



PRODUCT LINEUP

STRIP TERMINAL, HOUSING FEATURES

HOUSING		TERMINAL	
PLUG (FEMALE)		RECEPTACLE (FEMALE)	
			
RECEPTACLE(MALE)		TAB((MALE)	
			
PART NUMBER SYSTEM (HOUSING)		PART NUMBER SYSTEM (TERMINAL)	
1. HOUSING		2. STRIP TERMINAL	
610000-1 6 1 0000 - 1 Serial Number 1. Female 2. Male 3. Holder & Clip 4. Male Ass'y 5. Female Ass'y 6. Others Ass'y 8. Rubber Seal Product Number 1. Red 11. Orange 12. Light Pink 2. Blue 20. Jade 21. Sky Blue 3. Yellow 4. Gray 40. Dark Gray 41. Light Gray 5. Black 6. Green 7. Brown 8. Light Green 9. Magenta		710000-1 7 1 0000 - 1 Serial Number 1. Ring 2. Spade 3. Female 4. Male 5. Pin 6. Splice & Button 8. Fuse & etc. Product Number 1. Brass 2. Brass/Tin 3. Pre-Tin G. Au/Ni GS. Au/Sn-Pb	

PRODUCT LINEUP

CRIMPING SPECIFICATION

NOMENCLATURE

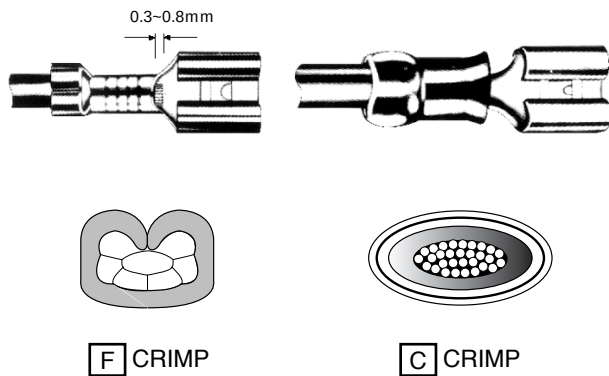
The diagram illustrates the crimping process with the following labels:

- ① BEND UP: Indicated by an upward arrow at the start of the wire.
- BEND DOWN: Indicated by a downward arrow at the start of the wire.
- ② TWISTING: Shown in a separate inset diagram at the top right, depicting the wire being twisted.
- ③ ROLLING: Shown in a separate inset diagram at the bottom right, depicting the wire being rolled into a crimp.
- ④ CUT-OFF TAB LENGTH: The length of the wire strip after the crimp.
- ⑤ BELLMOUTH: The gap between the crimp and the wire strip.
- ⑥ EXTRUDED WIRE LENGTH: The length of the wire strip before the crimp.
- ⑦ CONDUCTOR CRIMP HEIGHT: The height of the crimp.
- ⑧ INS. CRIMP HEIGHT: The height of the insulation crimp.

CRIMPING CONDITIONS

	Check Point	Requirements
①	Bend-up	3-6° MAX
	Bend-Down	3-6° MAX
②	Twisting	3-6° MAX
③	Rolling	3-6° MAX
④	Cut-Off Tab Length	0.5mm MAX
⑤	Bellmouth	0.3mm-0.8mm
⑥	Extruded Wire Length	0-2mm
	Wire Strip Length	4.5mm-5.5mm

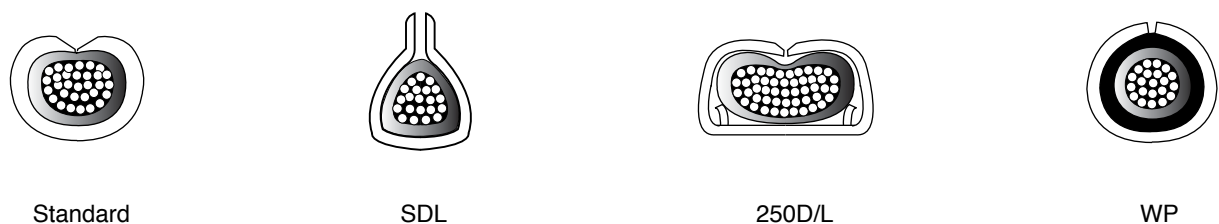
WIRE CRIMPING SHAPE



FORCES FOR CRIMP PULL-OUT TEST

Wire Size		Standard/Minimum	
mm ²	AWG	Pounds	kg
0.13	26	-	-
0.22	24	-	-
0.3	22	8	3.6
0.5	20	13	5.9
0.85	18	20	9.1
1.25	16	30	13.6
2.0	14	50	22.7
3.0	12	70	31.8
5.0	10	80	36.3

INSULATION CRIMPING SHAPE



PRODUCT LINEUP



020 CONNECTOR



025 CONNECTOR



025II CONNECTOR



025WP CONNECTOR



SSD 0509 CONNECTOR



N060 CONNECTOR



090 CONNECTOR



090II CONNECTOR



110 CONNECTOR



187II WP CONNECTOR



375(58L) CONNECTOR



HYB WP CONNECTOR



HYB LEVER(025 HYB)



HYB LEVER(025II HYB)



PCB CONNECTOR(VRT)



PCB CONNECTOR(HZT)



PCB(SMD) CONNECTOR



ECU 196P CONNECTOR



FUSE & RELAY BOX



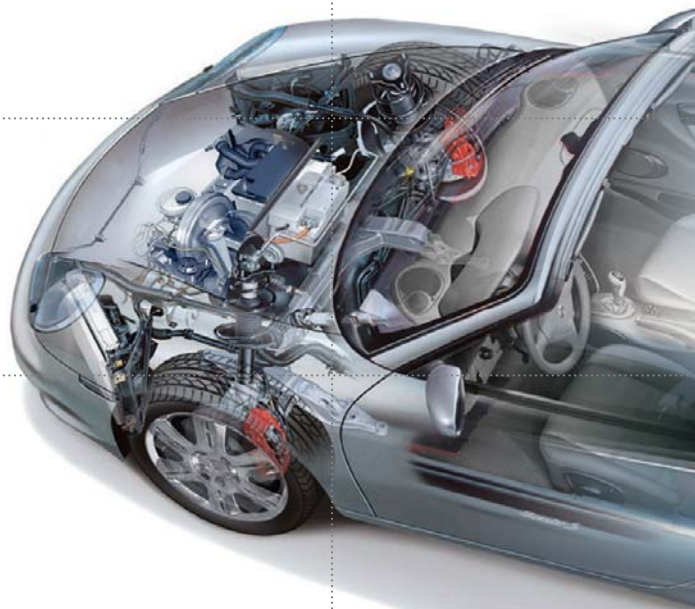
PRA



HIGH VOLTAGE(20A)

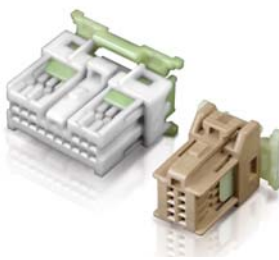


HIGH VOLTAGE(200A)



 030(91A) CONNECTOR	 040III CONNECTOR	 040WP(RK) CONNECTOR	 AIRBAG CONNECTOR
	 N060 WP CONNECTOR	 SDLII(070) CONNECTOR	 SWP CONNECTOR
		 ASC CONNECTOR	 090 WP CONNECTOR
		 250 WP CONNECTOR	 312II WP CONNECTOR
		 FAKRA HYB LEVER	 DOOR CONNECTOR
 JOINT	 HEAD LAMP(N060 WP)	 TURN SIGNAL BULB SOCKET	 RCL BULB SOCKET
 CHARGE COUPLER	 BATTERY FUSE TERMINAL/MULTI FUSE	 FRONT/SIDE IMPACT SENSOR	 IT MODULE(WIFI MODULE)

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
020 	▶ Terminal Tab Size : 020	▶ Current Rating : 3A	34
	▶ Terminal M : Brass(Sn-plating) F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 10m Ω Max(Initial)	
	▶ Housing M : LCP F : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.12~0.3	
025 	▶ Terminal Tab Size : 025	▶ Current Rating : 5A	35
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 10m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~0.5	
025II 	▶ Terminal Tab Size : 025	▶ Current Rating : 5A	36
	▶ Terminal M : Copper Alloy / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 10m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~0.5	
025 WP 	▶ Terminal Tab Size : 025	▶ Current Rating : 5A	37
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 10m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.22~0.5	
030 	▶ Terminal Tab Size : 030	▶ Current Rating : 3A	40
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~0.85	
040III 	▶ Terminal Tab Size : 040	▶ Current Rating : 3A	43
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~1.25	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
040 WP(RK) 	▶ Terminal Tab Size	▶ Current Rating	47
	: 040	: 3A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	: 5m Ω Max(Initial)	
	▶ Housing	▶ Insulation Resistance	
	: P.B.T	: DC 500V 100M Ω Min	
		▶ Wire Size	
		: 0.3~0.85	
AIRBAG 	▶ Terminal Tab Size	▶ Current Rating	52
	: 040	: 5A	
	▶ Terminal	▶ Contact Resistance	
	F : Copper Alloy / Pre-Tin	: 5m Ω Max(Initial)	
	▶ Housing	▶ Insulation Resistance	
	: HPA	: DC 500V 100M Ω Min	
		▶ Wire Size	
		: 0.3~0.5	
050 	▶ Terminal Tab Size	▶ Current Rating	54
	: 050	: 3A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	: 5m Ω Max(Initial)	
	▶ Housing	▶ Insulation Resistance	
	: HPA	: DC 500V 100M Ω Min	
		▶ Wire Size	
		: 0.13~2.0	
SSD 	▶ Terminal Tab Size	▶ Current Rating	56
	: 050	: 5A	
	▶ Terminal	▶ Contact Resistance	
	M : Copper Alloy / Pre-Tin F : Copper Alloy / Pre-Tin	: 5m Ω Max(Initial)	
	▶ Housing	▶ Insulation Resistance	
	: P.B.T	: DC 500V 100M Ω Min	
		▶ Wire Size	
		: 0.22~0.85	
0509 WP 	▶ Terminal Tab Size	▶ Current Rating	56
	: 050 / 090	: 5A / 10A	
	▶ Terminal	▶ Contact Resistance	
	090 M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	: 5/3m Ω Max(Initial)	
	050 M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Insulation Resistance	
	▶ Housing	: DC 500V 100M Ω Min	
	: P.B.T	▶ Wire Size	
		: 0.22~2.0 / 0.22~0.85	
N060 	▶ Terminal Tab Size	▶ Current Rating	61
	: 060(0.64T)	: 10A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	: 5m Ω Max(Initial)	
	▶ Housing	▶ Insulation Resistance	
	: P.B.T	: DC 500V 100M Ω Min	
		▶ Wire Size	
		: 0.22~1.25	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
060(0.8T) 	▶ Terminal Tab Size : 060(0.8T)	▶ Current Rating : 10A	64
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~1.25	
060 	▶ Terminal Tab Size : 060	▶ Current Rating : 6A	65
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~0.85	
060II 	▶ Terminal Tab Size : 060	▶ Current Rating : 6A	67
	▶ Terminal F : Copper Alloy	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~0.85	
N060 WP 	▶ Terminal Tab Size : 060(0.64T)	▶ Current Rating : 10A	68
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~1.25	
060WP(0.8T) 	▶ Terminal Tab Size : 060(0.8T)	▶ Current Rating : 10A	70
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~1.25	
SDL 	▶ Terminal Tab Size : 070	▶ Current Rating : 9A	71
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~2.0	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
SDLII 	▶ Terminal Tab Size : 070	▶ Current Rating : 9A	74
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~2.0	
SWP 	▶ Terminal Tab Size : 070	▶ Current Rating : 9A	75
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 250M Ω Min	
		▶ Wire Size : 0.22~2.0	
OBDII 	▶ Terminal Tab Size : 070	▶ Current Rating : 9A	78
	▶ Terminal F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~0.5	
DIAGNOSIS 	▶ Terminal Tab Size : 070	▶ Current Rating : 9A	78
	▶ Terminal F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 66	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~2.0	
090 	▶ Terminal Tab Size : 090	▶ Current Rating : 10A	82
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 66	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.2~1.25	
090II 	▶ Terminal Tab Size : 090	▶ Current Rating : 10A	85
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~2.0	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
ASC 	▶ Terminal Tab Size : 090	▶ Current Rating : 10A	91
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~2.0	
090 DTC 	▶ Terminal Tab Size : 090	▶ Current Rating : 10A	95
	▶ Terminal M : Brass / Pre-Tin F : Brass, Copper Alloy/Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~2.0	
DIODE 	▶ Terminal Tab Size : 090	▶ Current Rating : 10A	98
	▶ Terminal M : Brass / Pre-Tin F : Brass, Copper Alloy/Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 66	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~2.0	
090 WP 	▶ Terminal Tab Size : 090	▶ Current Rating : 10A	99
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~2.0	
090II WP 	▶ Terminal Tab Size : 090	▶ Current Rating : 10A	102
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.22~2.0	
110 	▶ Terminal Tab Size : 110	▶ Current Rating : 10A	106
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~2.0	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
110 D/L 	▶ Terminal Tab Size	▶ Current Rating	107
	: 110	: 10A	
	▶ Terminal	▶ Contact Resistance	
	F : Brass / Pre-Tin	: 3m Ω Max(Initial)	
	▶ Housing	▶ Insulation Resistance	
	: Nylon 66	: DC 500V 100M Ω Min	
		▶ Wire Size	
		: 0.3~2.0	
110 WP 	▶ Terminal Tab Size	▶ Current Rating	108
	: 110	: 10A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 3m Ω Max(Initial)	
	F : Copper Alloy / Pre-Tin	▶ Insulation Resistance	
	▶ Housing	: DC 500V 100M Ω Min	
	: Nylon 66	▶ Wire Size	
		: 0.3~2.0	
110(280) 	▶ Terminal Tab Size	▶ Current Rating	110
	: 110(280)	: 15A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 3m Ω Max(Initial)	
	F : Copper Alloy / Pre-Tin	▶ Insulation Resistance	
	▶ Housing	: DC 500V 100M Ω Min	
	: P.B.T	▶ Wire Size	
		: 0.3~3.0	
110(280) WP 	▶ Terminal Tab Size	▶ Current Rating	111
	: 110(280)	: 15A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 3m Ω Max(Initial)	
	F : Copper Alloy / Pre-Tin	▶ Insulation Resistance	
	▶ Housing	: DC 500V 100M Ω Min	
	: P.B.T	▶ Wire Size	
		: 0.3~3.0	
TLC 	▶ Terminal Tab Size	▶ Current Rating	114
	: $\varnothing$ 1.0	: 3A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 5m Ω Max(Initial)	
		▶ Insulation Resistance	
	▶ Housing	: DC 500V 250M Ω Min	
	: P.B.T	▶ Wire Size	
		: 0.5	
ESC 	▶ Terminal Tab Size	▶ Current Rating	115
	: 110	: 10A	
	▶ Terminal	▶ Contact Resistance	
	F : Brass / Copper Alloy	: 3m Ω Max(Initial)	
		▶ Insulation Resistance	
	▶ Housing	: DC 500V 250M Ω Min	
	: P.B.T	▶ Wire Size	
		: 0.3~2.0	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
118(PA) 	▶ Terminal Tab Size : 118	▶ Current Rating : 10A	117
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 66	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~2.0	
BS 	▶ Terminal Tab Size : 118	▶ Current Rating : 10A	120
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~2.0	
187II WP 	▶ Terminal Tab Size : 187	▶ Current Rating : 28.5A	123
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~3.0	
250 	▶ Terminal Tab Size : 250	▶ Current Rating : 20A	125
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 66	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~3.0	
250 D/L 	▶ Terminal Tab Size : 250	▶ Current Rating : 20A	130
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 66	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~3.0	
250III 	▶ Terminal Tab Size : 250	▶ Current Rating : 20A	132
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~3.0	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
250 WP 	▶ Terminal Tab Size : 250	▶ Current Rating : 20A	133
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 66	▶ Insulation Resistance : DC 500V 250M Ω Min	
		▶ Wire Size : 0.5~3.0	
250(630) 	▶ Terminal Tab Size : 250(630)	▶ Current Rating : 25A	135
	▶ Terminal F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.5~4.0	
312 	▶ Terminal Tab Size : 312	▶ Current Rating : 30A	136
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 66	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~5.0	
312II 	▶ Terminal Tab Size : 312	▶ Current Rating : 42A	138
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 2.0~8.0	
312II WP 	▶ Terminal Tab Size : 312	▶ Current Rating : 42A	139
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 1.25~8.0	
375 	▶ Terminal Tab Size : 375	▶ Current Rating : 60A	141
	▶ Terminal M : Copper Alloy / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 66	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 3.0~8.0	

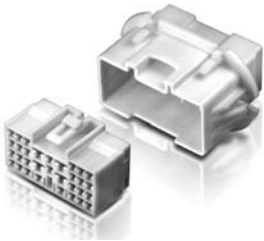
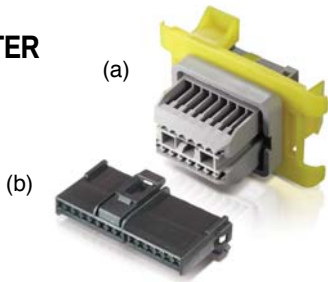
*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
375(950) 	▶ Terminal Tab Size : 375	▶ Current Rating : 80A	147
	▶ Terminal M : Copper Alloy / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 8.0~15.0	
HYBRID 	▶ Terminal Tab Size : 025/040/050/060/070/090/187/250	▶ Current Rating : 5A/3A/5A/10A/9A/10A/28.5A/25A	148
	▶ Terminal M : Brass / Pre-Tin F : Brass, Copper Alloy/Pre-Tin	▶ Contact Resistance : 10/5/5/5/3/3/3/3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~3.0	
HYBRID(LEVER TYPE) 	▶ Terminal Tab Size : 025/025II/040/050/060/070/090/187/250/312	▶ Current Rating : 5A/5A/3A/5A/10A/9A/10A/28.5A/25A/42A	158
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 10/5/5/5/3/3/3/3/5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~0.85 / 0.13~2.0	
HYBRID WP 	▶ Terminal Tab Size : 090 / 187 / 312 / 375	▶ Current Rating : 10A / 28.5A / 42A / 60A	172
	▶ Terminal 090 M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3 / 5m Ω Max(Initial)	
	187 M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Insulation Resistance : DC 500V 100M Ω Min	
	▶ Housing : P.B.T	▶ Wire Size : 0.13~2.0 / 0.3~3.0	
FAKRA HYBRID(LEVER TYPE) 	▶ Terminal Tab Size : 025 / 060 / 110 / FAKRA	▶ Current Rating : 5A / 10A / 10A	173
	▶ Terminal 025 M : Copper Alloy / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 10 / 5 / 3m Ω Max(Initial)	
	060 M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Insulation Resistance : DC 500V 100M Ω Min	
	▶ Housing : P.B.T	▶ Wire Size : 0.22~2.0	
HYBRID BOLT 	▶ Terminal Tab Size : 090 / 187 / 312 / 375	▶ Current Rating : 10A / 28.5A / 42A / 60A	175
	▶ Terminal 090 M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3 / 5m Ω Max(Initial)	
	187 M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Insulation Resistance : DC 500V 100M Ω Min	
	▶ Housing : P.B.T	▶ Wire Size : 0.13~2.0 / 0.3~3.0	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
DOOR 	▶ Terminal Tab Size : 070 / 090 / 187	▶ Current Rating : 9A / 10A / 28.5A	177
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~2.0 / 0.3~3.0	
CLUSTER 	▶ Terminal Tab Size	▶ Current Rating : 10A	181
	▶ Terminal F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon (a) : P.B.T (b)	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~1.25	
PCB 025 025 HYBRID (VRT/HZT) 025 025040 025090 025110 	▶ Terminal Tab Size : 025 / 040 / 090 / 110	▶ Current Rating : 3A / 5A / 10A / 20A	187
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 5/10m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~2.0	
PCB(SMD) 025 025090 070 	▶ Terminal Tab Size : 025 / 070 / 090	▶ Current Rating : 5A / 9A / 10A	190
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 10 / 5 / 3m Ω Max(Initial)	
	▶ Housing : PPS	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~0.15/ 0.3~2.0	
PCB 030 	▶ Terminal Tab Size : 030	▶ Current Rating : 3A	193
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~0.85	
PCB 040(SP) 040II 040III 04070 04090 	▶ Terminal Tab Size : 040 / 070 / 090	▶ Current Rating : 3A / 5A / 10A	194
	▶ Terminal M : Brass / Pre-Tin F : Brass / Copper Alloy	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.2~0.5	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
PCB 050 	▶ Terminal Tab Size	▶ Current Rating	203
	: 050	: 5A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 5m Ω Max(Initial)	
	F : Copper Alloy / Pre-Tin	▶ Insulation Resistance	
PCB N060 060II 	▶ Terminal Tab Size	▶ Current Rating	205
	: 060	: 10A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 5m Ω Max(Initial)	
	F : Copper Alloy / Pre-Tin	▶ Insulation Resistance	
PCB 070 SDLII 	▶ Terminal Tab Size	▶ Current Rating	206
	: 070	: 5A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 5m Ω Max(Initial)	
	F : Copper Alloy / Pre-Tin	▶ Insulation Resistance	
PCB 090II ASC 110 118 	▶ Terminal Tab Size	▶ Current Rating	207
	: 090 / 110 / 118	: 10A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 3m Ω Max(Initial)	
	F : Copper Alloy / Pre-Tin	▶ Insulation Resistance	
PCB 187II 1809 250 3109 375 	▶ Terminal Tab Size	▶ Current Rating	209
	: 090 / 187 / 250 / 312 / 375	: 10A/28.5A/20A/42A/60A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 3m Ω Max(Initial)	
	F : Copper Alloy / Pre-Tin	▶ Insulation Resistance	
ECU & TCU 64P,76P 	▶ Terminal Tab Size	▶ Current Rating	214
	: 040 / 070	: 5A / 9A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 5/3m Ω Max(Initial)	
	F : Phos. Bronze / Pre-Tin	▶ Insulation Resistance	
	▶ Housing	: DC 500V 100M Ω Min	
	: P.B.T	▶ Wire Size	
		: 0.13~0.85	

* Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
ECU & TCU 93P,119P 	▶ Terminal Tab Size : 025	▶ Current Rating : 5A	218
	▶ Terminal M : Brass / Pre-Tin F : Phos.Bronze / Pre-Tin	▶ Contact Resistance : 10m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~0.85 / 0.5~1.25	
ECU & TCU 81P,121P 	▶ Terminal Tab Size : 025 / 110	▶ Current Rating : 5A / 10A	222
	▶ Terminal M : Brass / Pre-Tin F : Phos. Bronze / Pre-Tin	▶ Contact Resistance : 3/10m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~0.5 / 0.85~2.5	
ECU & PCU 196P 	▶ Terminal Tab Size : 050 / 110	▶ Current Rating : 5A / 15A	223
	▶ Terminal M : Brass F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~0.85 / 0.5~2.5	
ECU & TCU 40P, 81P 	▶ Terminal Tab Size : 025 / 110	▶ Current Rating : 5A / 10A	227
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3/10m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~0.5 / 0.5~2.5	
JOINT 025 025II 	▶ Terminal Tab Size : 025	▶ Current Rating : 5A	229
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 10m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.13~0.5	
JOINT 060 060110 	▶ Terminal Tab Size : 060/110	▶ Current Rating : 10A / 25A	231
	▶ Terminal M : Brass / Pre-Tin F : Brass, Copper Alloy/Pre-Tin	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.22~1.25 / 0.3~3.0	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
JOINT			
070	▶ Terminal Tab Size	▶ Current Rating	231
	: 070	: 9A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 3m Ω Max(Initial)	
	F : Copper Alloy / Pre-Tin	▶ Insulation Resistance	
	▶ Housing	: DC 500V 100M Ω Min	
	: Nylon 66, P.B.T	▶ Wire Size	
		: 0.3~2.0	
JOINT			
ASC WP	▶ Terminal Tab Size	▶ Current Rating	231
	: 090	: 10A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 3m Ω Max(Initial)	
	F : Copper Alloy / Pre-Tin	▶ Insulation Resistance	
	▶ Housing	: DC 500V 100M Ω Min	
	: P.B.T	▶ Wire Size	
		: 0.3~2.0	
JOINT			
090 090II	▶ Terminal Tab Size	▶ Current Rating	234
	: 090	: 10A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 3m Ω Max(Initial)	
	F : Brass, Copper Alloy/Pre-Tin	▶ Insulation Resistance	
	▶ Housing	: DC 500V 100M Ω Min	
	: P.B.T	▶ Wire Size	
		: 0.3~2.0	
EARTH			
	▶ Terminal Tab Size	▶ Current Rating	236
	: 090 / 187 / 250	: 10A / 28.5A / 20A	
	▶ Terminal	▶ Contact Resistance	
	M : Brass / Pre-Tin	: 3m Ω Max(Initial)	
	F : Copper Alloy/Pre-Tin	▶ Insulation Resistance	
	▶ Housing	: DC 500V 100M Ω Min	
	: P.B.T	▶ Wire Size	
		: 0.3~3.0	
RELAY			
	▶ Terminal Tab Size	▶ Current Rating	238
	: 187 / 250 / 312	: 28.5A / 20A / 30A	
	▶ Terminal	▶ Contact Resistance	
	F : Brass / Pre-Tin	: 3m Ω Max(Initial)	
	▶ Housing	▶ Insulation Resistance	
	: Nylon 66	: DC 500V 100M Ω Min	
		▶ Wire Size	
		: 0.3~3.0	
FOG-LAMP			
	▶ Terminal Tab Size	▶ Current Rating	239
	: 110	: 10A	
	▶ Terminal	▶ Contact Resistance	
	F : Copper Alloy / Pre-Tin	: 3m Ω Max(Initial)	
	▶ Housing	▶ Insulation Resistance	
	: Nylon 66, P.B.T	: DC 500V 100M Ω Min	
		▶ Wire Size	
		: 0.5~2.0	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
HEAD-LAMP 	▶Terminal Tab Size : 090	▶ Current Rating : 10A	240
	▶Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance :	
	▶ Housing : P.B.T	▶ Insulation Resistance :	
	▶ Wire Size : 0.3~2.0		
BULB FRONT TURN SIGNAL POSITION 			245
	▶FRONT LAMP		
	▶TURN SIGNAL LAMP		
	▶POSITION LAMP		
BULB RCL BACK-UP HMSL LICENSE 	▶RCL(REAR COMBI LAMP)		249
	▶BACK-UP LAMP		
	▶HMSL(HIGH MOUNT STOP LAMP)		
	▶LICENSE LAMP		
COVER 			262
FUEL PUMP 	▶Terminal Tab Size : 070 / 090	▶ Current Rating : 9A / 10A	268
	▶Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3mΩ Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100MΩ Min	
	▶ Wire Size : 0.3~2.0		
PWM 	▶Terminal M : Copper Alloy	REGULATOR FOR ALTERNATOR / STICK IGNITION COIL 	
	▶ Housing : P.B.T+GF30%		
		▶Terminal M : Brass	269
		▶ Housing : P.P.S	270

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
BOX (CONVENTIONAL TYPE) 	▶ Main Body : PA66+PPE	▶ Rated Voltage : DC12V	271
	▶ Upper Cover, Lower Cover : PP-TD	▶ Humidity Range : 0 ~ 90%	
	▶ Upper Cover Circuit Print : Label Sticker, Silk print : Laser-marking	▶ Temperature Range : -30 °C~+90 °C	
	▶ Bus-Bar : Copper Alloy & Brass		
	▶ Main Cover : PA66+PPE	▶ Rated Voltage : DC12V	
BOX(PCB TYPE) 	▶ Under Cover : PA+PPE	▶ Humidity Range : 0 ~ 90%	273
	▶ PCB : FR4	▶ Temperature Range : -30 °C~+90 °C	
BOX(BUS-BAR TYPE) 	▶ Main Body : PA66+PPE	▶ Rated Voltage : DC12V	274
	▶ Upper Cover, Lower Cover : PP-TD	▶ Humidity Range : 0 ~ 90%	
	▶ Upper Cover Circuit Print : Laser-marking	▶ Temperature Range : -30 °C~+90 °C	
	▶ Bus-Bar : Copper Alloy		
BOX(Bus-Bar & Wire Type) 	▶ Main Cover, Under Cover : PP-TD	▶ Rated Voltage : DC12V	274
	▶ Insulation Plate, Wire Cover : PP-TD	▶ Humidity Range : 0 ~ 90%	
	▶ Bracket : Steel, PP+GF	▶ Temperature Range : -30 °C~+60 °C	
	▶ Bus-Bar : Copper Alloy		
PRA 	▶ Base Body : PBT+GF	▶ Current Rating : 80A	275
	▶ Upper Cover : PBT+GF	▶ Voltage Rating : DC450V	
	▶ Bus-Bar : Copper	▶ Temperature Range : -30 °C~+75 °C	
HIGH VOLTAGE CONNECTOR 	▶ Terminal Tab Size : 280 / Ø9	▶ Current Rating : 20A / 200A	276
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Voltage Rating : 650 Vdc	
	▶ Housing : PA66+GF	▶ Wire Size : 3SQ/40SQ Shield Cable	

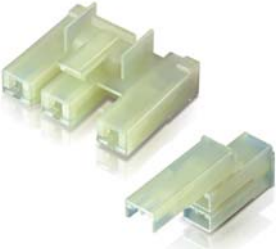
*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
CHARGE COUPLER 	▶ SAE J1772(Rev. 2010)	▶ Current Rating	277
	: AC Level 1, 2	: Max 32A	
	▶ Terminal	▶ Voltage Rating	
	M : Copper Alloy / Ag F : Copper Alloy / Ag	: 450 Vac	
	▶ Body	▶ Temperature Range	
	: PA66+GF	: -40 °C ~ +85 °C	
BATTERY FUSE TERMINAL 	▶ Body	▶ BFT 1P : Type A-150A	278
	: PA6T-GF	: Type B-180A	
	▶ Element Cover	▶ BFT 2P : Type A-120A 120A	
	: PES	: Type B-150A 150A	
	▶ CAP	: Type C-150A 180A	
	: PP	▶ BFT 4P+1P	
	▶ Bus Bar	: DSL Type-150A 80A 80A 430A+100A	
	: Copper Alloy	: GAS Type-150A 80A 80A 400A+80A	
MULTI FUSE 	▶ Body	▶ TYPE A	280
	: PA6T-GF	: 80A 60A 40A 40A 40A 40A 60A 60A	
	▶ Element Cover	▶ TYPE B	
	: PES	: 80A 60A 60A 40A 40A 40A 60A 60A	
	▶ Bus Bar	▶ TYPE C	
	: Copper Alloy	: 80A 60A 40A 60A 40A 40A 60A 60A	
SENSOR 	▶ Cover	▶ Rated Voltage	281
	: PBT+GF	: DC12V or 5V	
	▶ Housing	▶ Humidity Range	
	: PBT+GF	: 0 ~ 90%	
	▶ Cover Circuit Print	▶ Temperature Range	
	: Label Sticker	: -40 °C ~ +120 °C	
	▶ Terminal		
	: Copper Alloy		
IT MODULE(GNSS) 	▶ Size :	▶ GPS, GLONASS, Galileo, QZSS Receiver	282
	13.1 X 15.9	▶ Dead Reckoning Support	
	19 X 19	▶ Internal Gyro Sensor	
	22.2 X 22.2	▶ Instant Fix 2 Support	
	53 X 47	▶ Automotive Application	
		▶ AVN, Navigation, PND Application	
IT MODULE (WIRELESS COMMUNICATION) 	▶ Size :	▶ Wi-Fi 802.11a/b/g/n/ac	283
	11 X 13	▶ Bluetooth 2.1/3.0/4.0+EDR/HS	
	12 X 12.5	▶ Wi-Fi + Bluetooth Combo	
	13 X 13	▶ Operate at ISM Band (2.4/5GHz)	
	18 X 23	▶ Support USB/SDIO/UART Host Interface	
	19 X 22	▶ Automotive Application	
		▶ AVN, Navigation, PND Application	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

ELECTRONIC LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
P-LOCK 	▶Terminal Tab Size : 250 / 187	▶ Current Rating : 20A / 15A	286
	▶Terminal F : Brass / Pre-Tin(.250)	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶Terminal F : Brass / Pre-Tin(.187)	▶ Insulation Resistance : DC 500V 100M Ω Min	
	▶ Housing : Nylon 66	▶ Wire Size : 0.5~5.0 / 0.3~2.0	
312 250 	▶Terminal Tab Size : 312 / 250	▶ Current Rating : 42A / 20A	295
	▶Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.P Rein forced	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~5.0 / 0.3~3.0	
250 	▶Terminal Tab Size : 250	▶ Current Rating : 20A	296
	▶Terminal F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~0.5	
187 	▶Terminal Tab Size : 187	▶ Current Rating : 15A	300
	▶Terminal F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 66	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~3.0	
110 	▶Terminal Tab Size : 110	▶ Current Rating : 10A	301
	▶Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 6	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~1.5	
110 WP 	▶Terminal Tab Size : 110	▶ Current Rating : 5A	302
	▶Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 1,000M Ω Min	
		▶ Wire Size : 0.22~0.35 & 0.22+0.22, 0.35+0.35	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

ELECTRONIC LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
Ø2.0 	▶ Terminal Tab Size : Ø2.0	▶ Current Rating : 15A	303
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 10m Ω Max(Initial)	
	▶ Housing : Nylon 6	▶ Insulation Resistance : DC 500V 1,000M Ω Min	
		▶ Wire Size : 0.2~2.0	
Ø1.3 	▶ Terminal Tab Size : Ø1.3	▶ Current Rating : 10A	307
	▶ Terminal M : Brass / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 10m Ω Max(Initial)	
	▶ Housing : Nylon 66	▶ Insulation Resistance : DC 500V 1,000M Ω Min	
		▶ Wire Size : 0.3~1.25	
3220 	▶ Terminal Tab Size : 125	▶ Current Rating : 20A	309
	▶ Terminal M : Phos. Bronze / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 1,000M Ω Min	
		▶ Wire Size : 0.8~2.4	
0709 MULTI 	▶ Terminal Tab Size : 090 / 070	▶ Current Rating : 15A	313
	▶ Terminal M : Copper Alloy / Pre-Tin F : Brass / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 1,000M Ω Min	
		▶ Wire Size : 0.3~2.4	
1806 D/L 	▶ Terminal Tab Size : 070	▶ Current Rating : 15A	318
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~2.0	
1806 	▶ Terminal Tab Size : 070	▶ Current Rating : 15A	321
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~2.0	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

ELECTRONIC LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
1806 PCB 	▶ Terminal Tab Size : 070	▶ Current Rating : 15A	325
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 66	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.3~2.0	
060 PCB (4.2mm Pitch) 	▶ Terminal Tab Size : 060	▶ Current Rating : 10A	326
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : P.B.T(UL94Vo)	▶ Insulation Resistance : DC 500V 100M Ω Min	
		▶ Wire Size : 0.2~0.75	
1006 	▶ Terminal Tab Size : 040	▶ Current Rating : 3A	327
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 20m Ω Max(Initial)	
	▶ Housing : Nylon	▶ Insulation Resistance : DC 500V 500M Ω Min	
		▶ Wire Size : 0.13~0.33	
NEW 070 	▶ Terminal Tab Size : 070	▶ Current Rating : 15A	329
	▶ Terminal	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : PET+PC(GWIT) & P.B.T	▶ Insulation Resistance : DC 500V 1,000M Ω Min	
		▶ Wire Size : 0.22~2.17	
070 WP 	▶ Terminal Tab Size : 070	▶ Current Rating : 15A	331
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 5m Ω Max(Initial)	
	▶ Housing : PET+PC(GWIT)	▶ Insulation Resistance : DC 500V 1,000M Ω Min	
		▶ Wire Size : 0.35~2.2	
NEW 060 	▶ Terminal Tab Size : 060	▶ Current Rating : 10A	332
	▶ Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : PET+PC(GWIT) & P.B.T	▶ Insulation Resistance : DC 500V 1,000M Ω Min	
		▶ Wire Size : 0.22~1.3 & 0.34+0.34	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

ELECTRONIC LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
NEW 050 	▶Terminal Tab Size : 050	▶ Current Rating : 8A	335
	▶Terminal M : Brass / Pre-Tin F : Copper Alloy / Pre-Tin	▶ Contact Resistance : 3m Ω Max(Initial)	
	▶ Housing : Nylon 66 & PET+PC(GWIT)	▶ Insulation Resistance : DC 500V 1,000M Ω Min	
		▶ Wire Size : 0.22~0.85 & 0.5+0.5, 0.85+0.85	
POWER BLOCK 	▶Terminal Tab Size	▶ Current Rating : 40A	338
	▶Terminal : Brass(Power Terminal)	▶ Contact Resistance : 3m Ω Max(Initial)	
		▶ Insulation Resistance : DC 500V 1,000M Ω Min	
	▶ Housing : PHENOL	▶ Wire Size : 0.82~5.22	

ELECTRONIC(Display/Mobile) LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
HDMI 	▶Terminal : Brass or P-Bronze (Au Plating over Ni)	▶ Current Rating : 0.5A	351
	▶Shell : SUS or Bronze or SPC1 (Sn Plating or Ni Plating)	▶ Contact Resistance : 30m Ω Max(Initial)	
		▶ Insulation Resistance : 100M Ω Min	
	▶Insulator : LCP		
LED LIGHTING 		▶ Current Rating : 1A	355
	▶Terminal : P-Bronze (Sn Plating over Ni or Sn Plating)	▶ Contact Resistance : 30m Ω Max(Initial)	
		▶ Insulation Resistance : 100M Ω Min	
	▶Insulator : LCP		
SIM CARD 	▶Insulator : LCP	▶ Current Rating : 1A	358
	▶Pin : Copper Alloy (Au Plating over Ni)	▶ Contact Resistance : 50m Ω Max(Initial)	
		▶ Insulation Resistance : 1,000M Ω Min	
	▶ Metal Shell : Stainless Steel(Ni-plating)		

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

ELECTRONIC(Display/Mobile) LINEUP

[illegible]

ELECTRONIC(Car Infotainment) LINEUP

APPEARANCE	MATERIAL	SPECIFICATIONS	PAGE
FLOATING BOARD TO BOARD 	▶Insulator : Nylon	▶ Current Rating : 0.5A	375
	▶Terminal : Copper Alloy	▶ Contact Resistance : 50V AC/DC	
	▶Metal Fitting : Copper Alloy	▶ Withstanding Voltage : AC 500Vram/ Min	
WIRE TO BOARD 	▶Insulator : Nylon	▶ Current Rating : 3A AC/DC(2 Circuits)	378
	▶Terminal : Copper Alloy	▶ Voltage Rating : 250V AC/DC	
	▶Pin : Copper Alloy	▶ Contact Resistance : 30m Ω Max.	
	▶Metal Fitting : Copper Alloy	▶ Wire Size : AVSS 0.3SQ	
FPC/FFC CONNECTOR 	▶Insulator : Nylon	▶ Character Impedance : AC 50V	380
	▶Flip : Nylon	▶ Maximum Rating Current : 0.5 / PIN	
	▶Inner Contact : Copper Alloy	▶ Maximum Rating Voltage : 100M Ω	
	▶Outer Contact : Brass	▶ Contact Resistance : 40m Ω Max.	
LVDS 	▶Housing : Nylon, PBT	▶ Character Impedance : 100 Ω	381
	▶Insulator : LCP	▶ Maximum Rating Current : 1.5A DC	
	▶Inner Contact : Copper Alloy	▶ Maximum Rating Voltage : 500V	
	▶Outer Contact : Brass, Copper Alloy	▶ Contact Resistance : 30m Ω Max.	
FAKRA(WIRE TO WIRE) 	▶Housing : PBT	▶ Impedance : 50 Ω	384
	▶Insulator : Thermo Plastic or Nylon	▶ Working Voltage : 335Vrms	
	▶Inner Contact : Copper Alloy	▶ Contact Current : 1A DC	
	▶Outer Contact : Copper Alloy, Brass	▶ Insulation Resistance : 1000M Ω	
FAKRA(WAFER) 	▶Housing : Thermo Plastic	▶ Impedance : 50 Ω	384
	▶Insulator : Thermo Plastic, Teflon	▶ Working Voltage : 335Vrms	
	▶Inner Contact : Copper Alloy	▶ Contact Current : 1A DC	
	▶Outer Contact : Copper Alloy,Zinc Alloy	▶ Insulation Resistance : 1000M Ω	

*Allowable current may vary depending no. of poles used, size of the wire, time elapsed, temperature etc.

AUTOMOTIVE CONNECTOR

33~283page

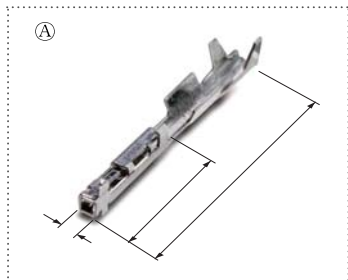


AUTOMOTIVE CONNECTOR

As the biggest connector maker in Korea, KET is growing into a foremost total component maker through expanding business into high-tech components for optical and mobile communications. Based on the advanced technology and the sound financial structure, KET delivers differentiated customer satisfaction.

020 CONNECTOR

TERMINAL



Part No.	Wire Range		Tab		Material	Dimension(mm)			Type
	AWG	mm ²	Thick.	Thick.		L	W	H	
ST731403-3	22	AVSS 0.3	0.4	0.15	Copper Alloy Pre-Tin	12.9	5.5	1.0	A
ST731407-3	26-24	CHFUS 0.22	0.4	0.15	Copper Alloy Pre-Tin	12.9	5.5	1.0	



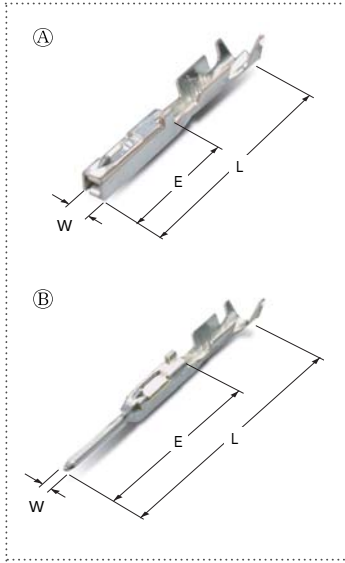
- The blade width of male terminal for this connector is 0.020 inch.(Distinctive Features)
1. 2.0mm terminal pitch.
 2. Pre-set spacer.
 3. Double locking mechanism to prevent terminal push-out
 4. Unification of spacer assures complete terminal insertion

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
12	MG 655794	MG 645845
	MG 655814	MG 645866
	MG 655815-2	MG 645867-2

025 CONNECTOR

TERMINAL



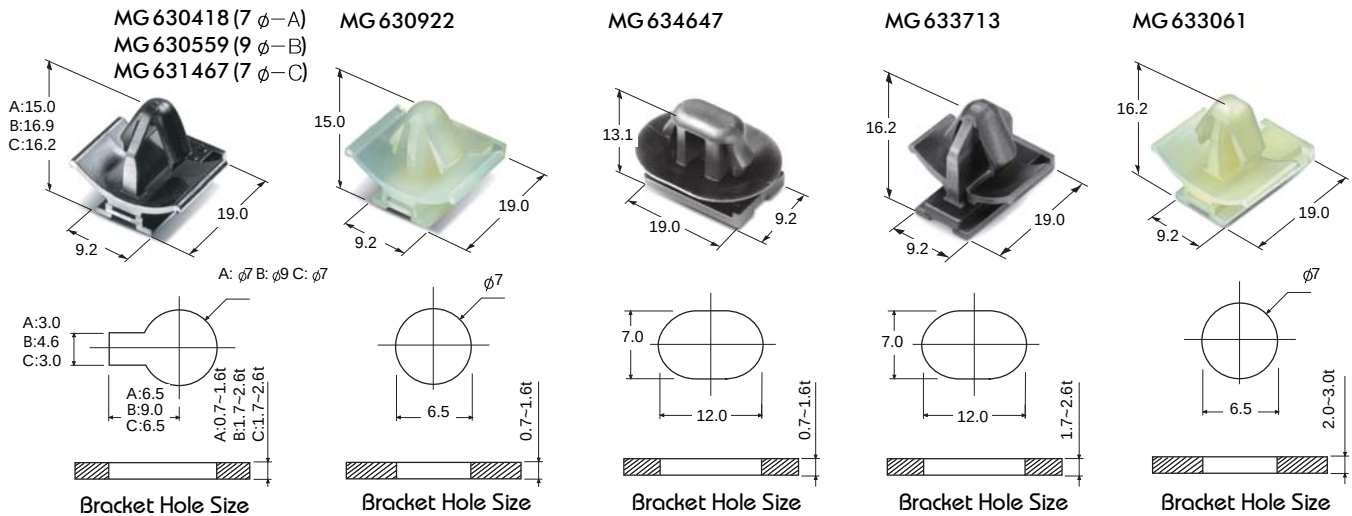
Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST731054-3	24	CHFUS 0.22	0.64	0.2	Copper Alloy Pre-Tin	15.5	7.0	1.5	A
ST731053-3	22~20	AVSS 0.3-0.5	0.64	0.2	Copper Alloy Pre-Tin	15.5	7.0	1.5	
ST741056-3	24	CHFUS 0.22	0.64	0.2	Brass/Pre-Tin	22.6	13.8	0.64	B
ST741055-3	22~20	AVSS 0.3-0.5	0.64	0.2	Brass/Pre-Tin	22.6	13.8	0.64	

► The blade width of male terminal for this connector is 0.025 inch. (Distinctive Features)

1. 2.2mm terminal pitch.
2. Pre-set spacer.
3. Double locking mechanism to prevent terminal push-out
4. Unification of spacer assures complete terminal insertion



CLIP

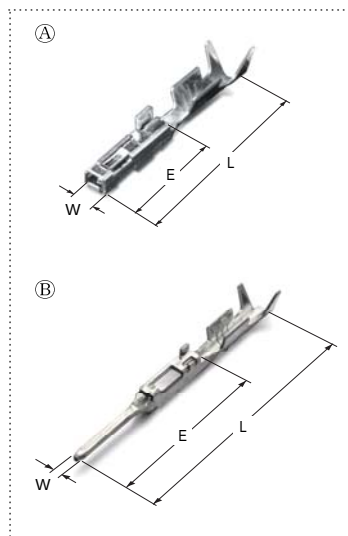


HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
12	MG 655131 	MG 645128
24	MG 654102 	MG 644152

025II CONNECTOR

- The 025II Connector is super mini connector with blade width of 0.025 inch.
- Double locking mechanism to prevent terminal push-out.
- Inertial locking structure prevent incomplete assembly of connectors
- Improved workability thought pro-set type spacer/holder structure



TERMINAL

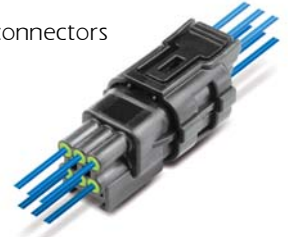
Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST731374-3	24	CHFUS 0.22	0.64	0.2	Copper Alloy Pre-Tin	15.5	7.0	1.5	A
ST731375-3	22-20	AVSS 0.3- 0.5	0.64	0.2	Copper Alloy Pre-Tin	15.5	7.0	1.5	
ST741345-3	24	CHFUS 0.22	0.64	0.25	Brass Pre-Tin	22.3	13.8	0.64	B
ST741346-3	22-20	AVSS 0.3- 0.5	0.64	0.25	Brass Pre-Tin	22.3	13.8	0.64	

HOUSING

Poles	Plug housing for female terminal	
24	MG 655743	MG 655761
28	MG 655762	
32	MG 655709	MG 655744
40	MG 655708	

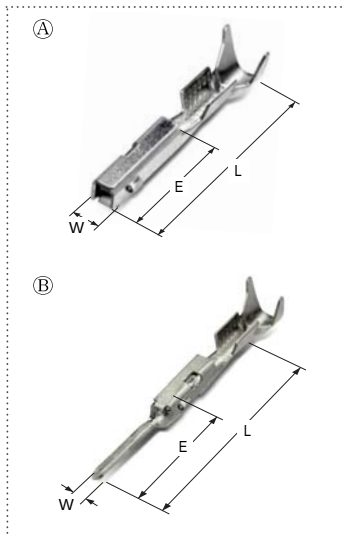
025 WP CONNECTOR

- ▶ The 025 Connector is super mini waterproof connector with blade width of 0.025 inch.
- ▶ Double locking mechanism to prevent terminal push-out.
- ▶ Inertial locking structure prevent incomplete assembly of connectors
- ▶ Improved workability thought pro-set type spacer/holder structure



025 WP

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material		Dimension(mm)			Type
	AWG	mm ²			Finish		L	E	W	
ST731363-3	24	AESSXF 0.3	0.64	0.2	Copper Alloy Pre-Tin		15.5	7.0	1.5	A
ST731364-3	22-20	AESSXF 0.5	0.64	0.2	Copper Alloy Pre-Tin		15.5	7.0	1.5	
ST741337-3	24	AESSXF 0.22~0.3	0.64	0.2	Brass Pre-Tin		22.3	13.8	0.64	B
ST741338-3	22-20	AESSXF 0.5	0.64	0.2	Brass Pre-Tin		22.3	13.8	0.64	

WIRE SEAL

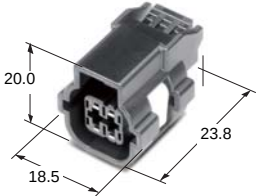
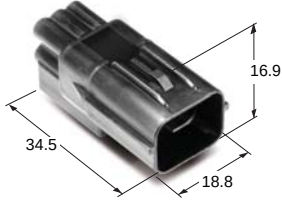
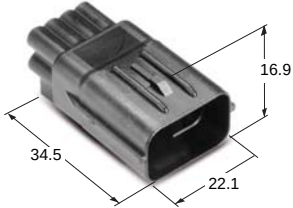
Part No.	Wire Range mm ²	Material	Color	Type
MG685387	AESSXF 0.3	Silicone	Blue	C
MG685388	AESSXF 0.5	Silicone	Red	
MG685416	Dummy Seal	Silicone	Green	

©



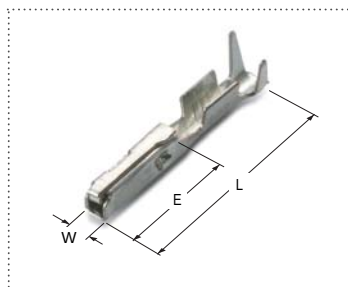
025 WP CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
2	MG 645720 	
3	MG 645721 	
4	MG 645854 	MG 655806 
6	MG 645722 	MG 655669 
8	MG 645723 	MG 655670 
14	MG 645724 	

025 WP(RH) CONNECTOR

TERMINAL

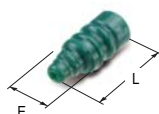


Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST730963-3	22	AESSXF 0.3 AVSSXF 0.3	0.64	0.2	Copper Alloy Pre-Tin	14.0	6.5	1.4	
ST730962-3	20	AESSXF 0.5 AVSSXF 0.5	0.64	0.2	Copper Alloy Pre-Tin	14.0	6.5	1.4	
ST730961-3	20	CAVS 0.5 AVSSXF 0.5	0.64	0.2	Copper Alloy Pre-Tin	14.0	6.5	1.4	

WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG 683293	AESSXF 0.3, AVSSXF 0.3	Silicone	Green	6.6	2.85	Ⓐ
MG 683292	AESSXF 0.5, AVSSXF 0.5	Silicone	Brown	6.6	2.8	
MG 683290	Dummy Seal	Silicone	Gray	6.0	2.9	Ⓑ

Ⓐ



Ⓑ



► RH Connector is super mini waterproof connector with blade width of 0.025 inch.
(Distinctive Features)

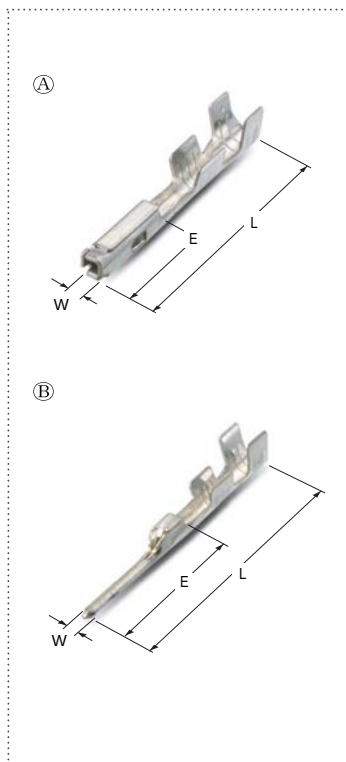
1. Improved vibration resistance
2. Inertial locking structure prevent incomplete assembly of connectors.
3. Improved workability thought pre-set type front holder structure.

HOUSING

Poles	Plug housing for female terminal		
	MG 644111	MG 643278	MG 643284
2	 12.0 18.8 21.1	 18.3 26.12 23.75	 18.3 32.12 23.75
	MG 645066	MG 643264	MG 633268(RH 46P COVER)
8	 24.8 44.0 40.4	 33.0 97.6 55.5	 27.8 81.0 35.5
	(187 3P+025 5P)	(187II 4P+025 42P)	

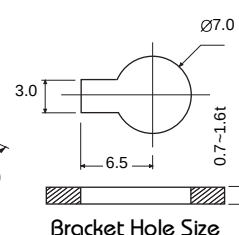
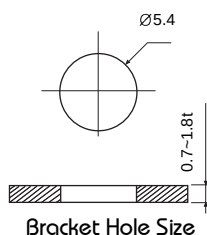
030(91A) CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST731005-3	26-24	CHFUS,AVSS 0.13~0.22	0.64	0.2	Copper Alloy Pre-Tin	15.2	5.8	1.45	A
ST730913-3	22-20	AVSS(CAVS) 0.3~0.5	0.64	0.2	Copper Alloy Pre-Tin	15.2	5.8	1.45	
ST730914-3	18	CAVUS 0.85	0.64	0.2	Copper Alloy Pre-Tin	15.2	5.8	1.15	
ST740928-3	22-20	AVSS(CAVS) 0.3~0.5	0.64	0.2	Brass Pre-Tin	19.9	10.9	0.8	B
ST740929-3	18	CAVUS 0.85	0.64	0.2	Brass Pre-Tin	19.9	10.9	0.8	

CLIP

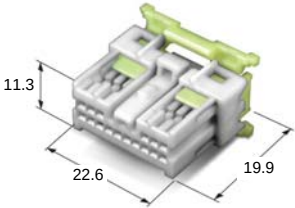
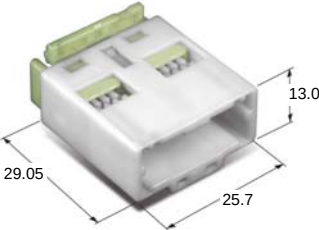
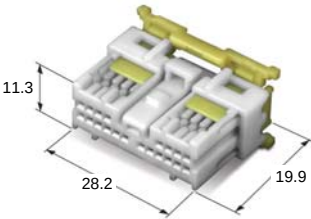
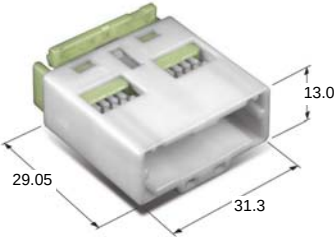


HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
2	MG 652630 	MG 643269
3	MG 651444(PBT) MG 654503(HPA) 	MG 643272
12	MG 651397 	MG 641394 MG 643148(HPA)

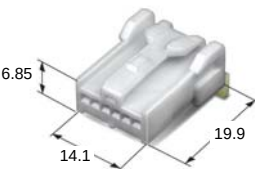
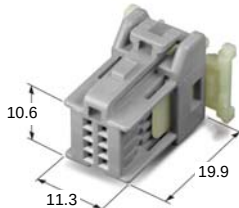
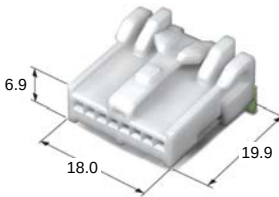
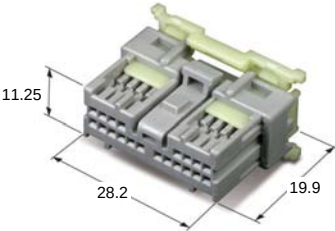
030(91A) CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
16	MG 651428 	MG 641425 MG 643151(HPA) 
		MG 641409 

- The blade width of male terminal for this connector is 0.030 inch.(Distinctive Features)
1. 2mm terminal pitch / Pre-set rear holder.
 2. Double locking mechanism to prevent terminal push-out.
 3. Unification of rear holder assures complete terminal insertion.
 4. Female terminal is made up of two parts and utilizes highly reliable contact.

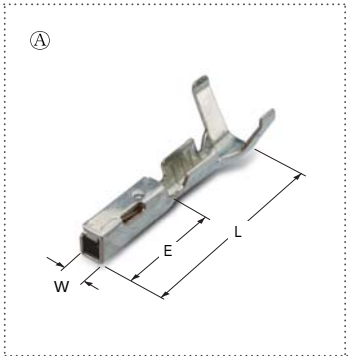
HOUSING

Poles	Plug housing for female terminal	
6	MG651439 	MG651441-4 
	MG653275 	MG651434 
12	MG651400 	MG652633 
		MG651436-4 

040 CONNECTOR

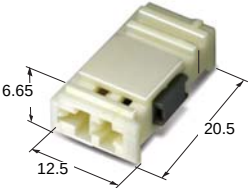
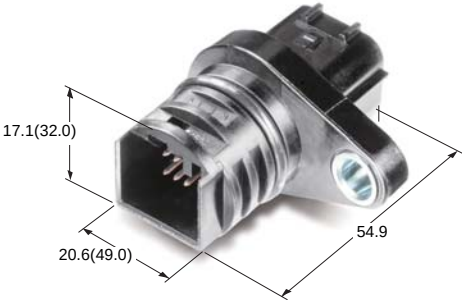
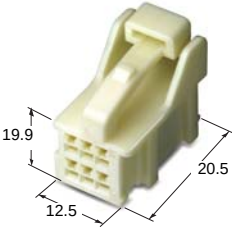
- ▶Miniaturized non waterproof connector with its tab size of 040(1.0mm).
- ▶Housing with a spacer structure makes connection work easier and enhanced double lock function with rear holder, preventing loose connection/disconnection.

TERMINAL



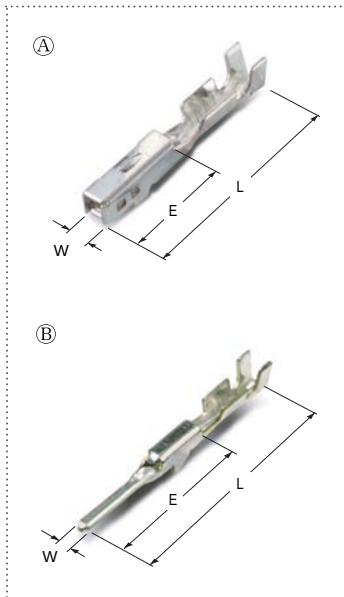
Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST730770-3	22-20	AVSS(CAVS) 0.3~0.5	0.64	0.25	Copper Alloy Pre-Tin	15.9	7.0	1.85	A
ST730960-3	18	AVSS(CAVS) 0.85	0.64	0.25	Copper Alloy Pre-Tin	15.9	7.0	1.85	
ST731007-3	26-24	AVSS 0.22 CHFUS 0.13~0.22	0.64	0.25	Copper Alloy Pre-Tin	15.9	7.0	1.85	

HOUSING

Poles	Plug housing for female terminal	Poles	Receptacle housing for male terminal
2	MG 654806 	8	MG 644801 
	MG 654809 		

040III CONNECTOR

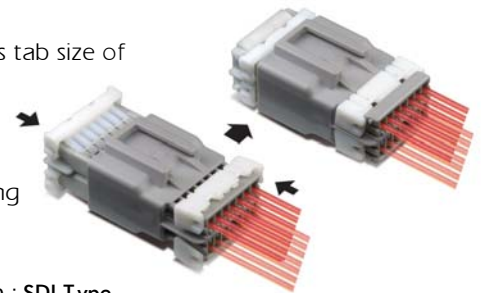
TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST731007-3	26-24	CHFUS 0.13~0.22 AVSS 0.22	0.64	0.25	Copper Alloy Pre-Tin	15.9	7.0	1.85	(A)
ST730770-3	22-20	AVSS(CAVS) 0.3~0.5	0.64	0.25	Copper Alloy Pre-Tin	15.9	7.0	1.85	
ST730960-3	18	AVSS(CAVS) 0.85	0.64	0.25	Copper Alloy Pre-Tin	15.9	7.0	1.85	
ST741015-3	24	AVSS 0.22	0.64	0.32	Brass Pre-Tin	23.8	14.9	1.0	(B)
ST740771-3	22-20	AVSS(CAVS) 0.3~0.5	0.64	0.32	Brass Pre-Tin	23.8	14.9	1.0	
ST740959-3	18	AVSS(CAVS) 0.85	0.64	0.32	Brass Pre-Tin	23.8	14.9	1.0	

040III SERIES

- ▶ Miniaturized non waterproof connector with its tab size of 040(1.0mm).
- ▶ Housing with a spacer structure makes connection work easier and enhanced double lock function with rear holder, preventing loose connection/disconnection.



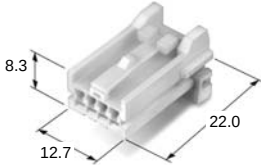
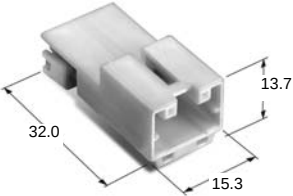
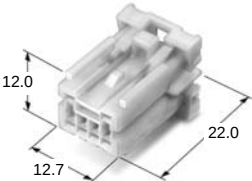
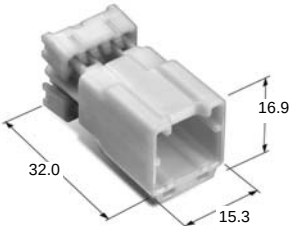
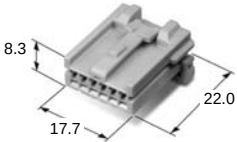
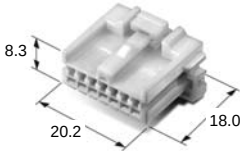
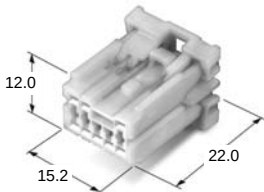
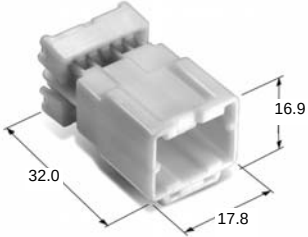
HOUSING

⇒ Suitable Clip : SDLType

Poles	Plug housing for female terminal	Receptacle housing for male terminal
2	MG 652987 	MG 642984
		MG 643248 Suitable Connector : Y7283-5973-40(YAZAKI)
3	MG 652993 	MG 642990

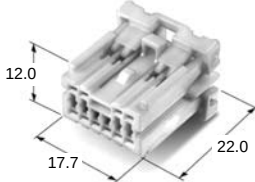
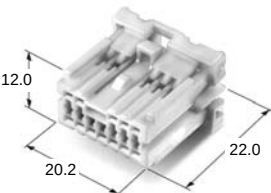
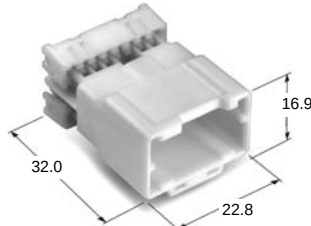
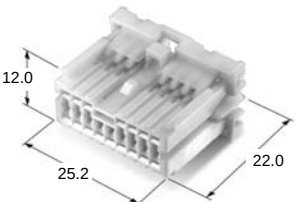
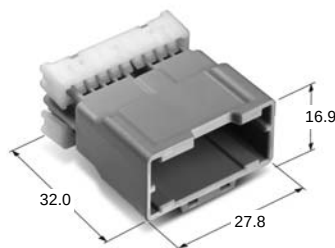
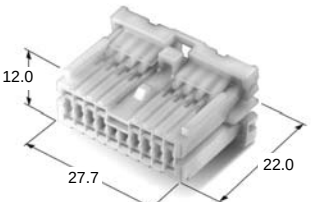
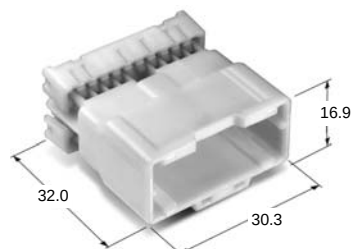
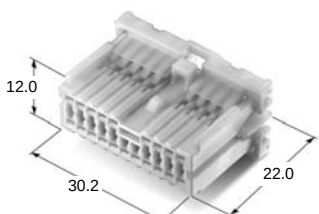
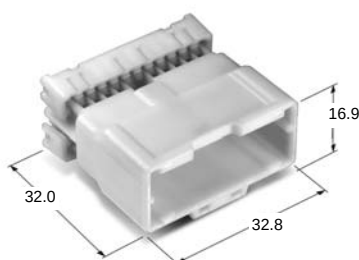
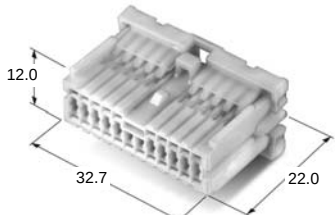
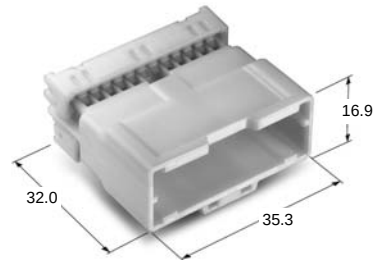
040III CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
4	MG 652999 	MG 642996 
6	MG 653005 	MG 643002 
	MG 653251-41 	
7	MG 653605 	
8	MG 653257 	MG 643261 
	MG 653254-41 	

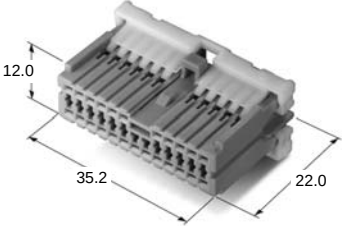
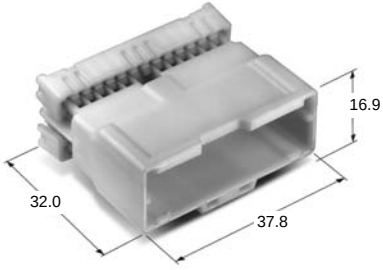
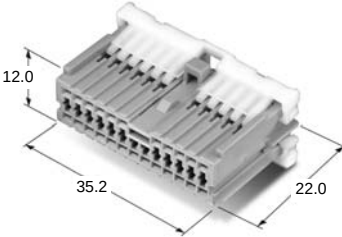
040III CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
10	MG 653329 	
12	MG 653012 	MG 643009 
16	MG 653019 	MG 643016 
18	MG 652945 	MG 642941 
20	MG 653026 	MG 643023 
22	MG 652983 	MG 642979 

040III CONNECTOR

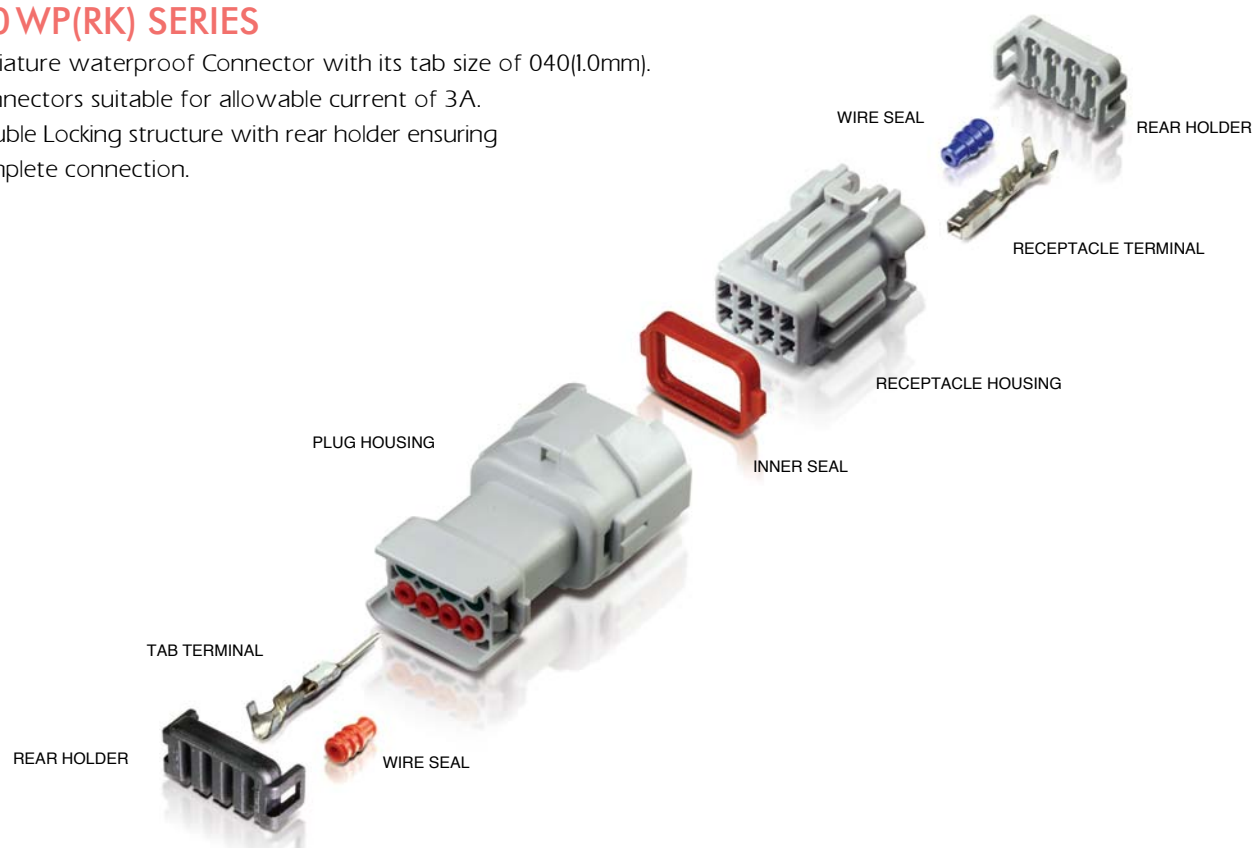
HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
24	MG 653033 	MG 643030 
	MG 653537 	

040 WP(RK) CONNECTOR

040 WP(RK) SERIES

- ▶ Miniature waterproof Connector with its tab size of 040(1.0mm).
- ▶ Connectors suitable for allowable current of 3A.
Double Locking structure with rear holder ensuring complete connection.



TERMINAL

⇒ Suitable CLIP: SDL Type

Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	W	U	
ST730924-3	22~20	CAVS 0.3~0.5 CAVUS 0.3~0.5	0.64	0.2	Copper Alloy Pre-Tin	15.8	6.5	2.05	A
ST730925-3	18	CAVS 0.85 CAVUS 0.85	0.64	0.2	Copper Alloy Pre-Tin	15.8	6.5	2.05	
ST740926-3	22~20	CAVS 0.3~0.5 CAVUS 0.3~0.5	0.64	0.25	Brass Pre-Tin	22.0	12.9	1.0	B
ST740927-3	18	CAVS 0.85 CAVUS 0.85	0.64	0.25	Brass Pre-Tin	22.0	12.9	1.0	

WIRE SEAL

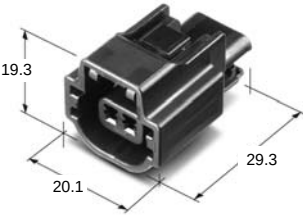
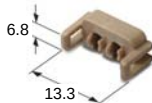
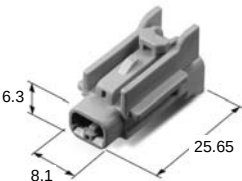
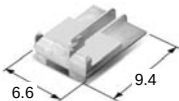
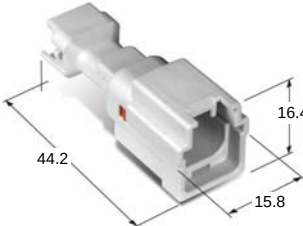
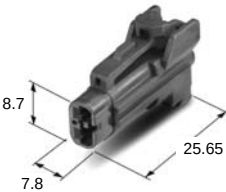
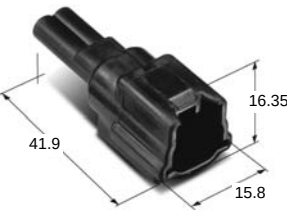
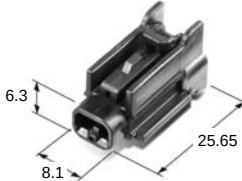
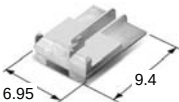
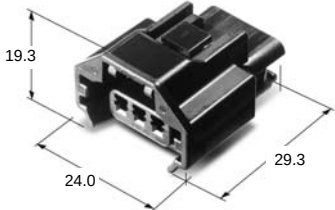
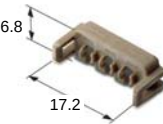
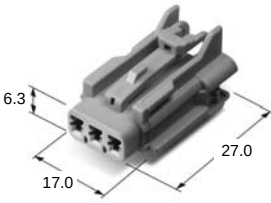
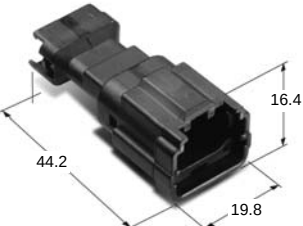
Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	W	
MG682620	CAVUS 0.3~0.5 CAVS 0.3	Silicone	Blue	7.45	3.8	C
MG682621	CAVUS 0.85 CAVS 0.5~0.85	Silicone	Red	7.45	3.8	
MG685384	AVX/AEX 0.5 AVXF/AEXF 0.5	Silicone	Red	7.45	3.8	
MG682622	Dummy Seal	Silicone	Green	6.1	4.1	

©



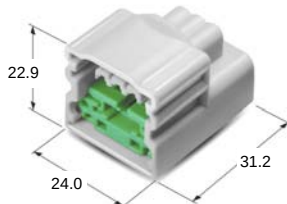
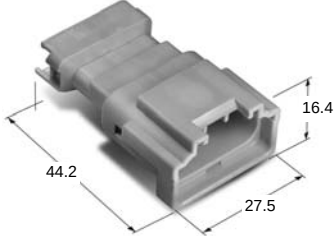
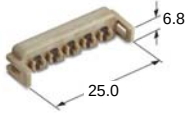
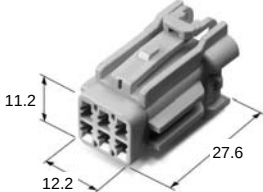
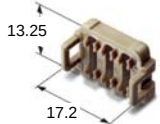
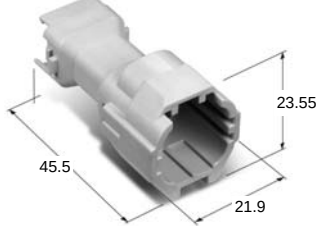
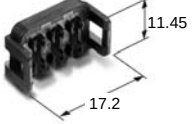
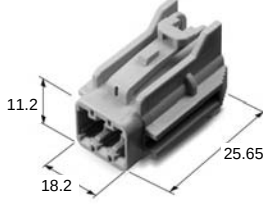
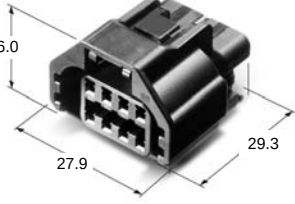
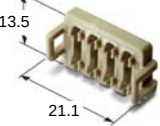
040 WP(RK) CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Rear Holder	Receptacle housing for male terminal	Rear Holder
2	MG 642599 	MG 632600-7 		
	MG 613216 	MG 633217 	MG 642597 	MG 632600-7 
	MG 613214-7 	MG 633215 	MG 643219 	MG 633221 
	MG 613218 	MG 633217 		
3	MG 642605 	MG 632606-7 		
	MG 612603 		MG 642602 	MG 632606-7 

040 WP(RK) CONNECTOR

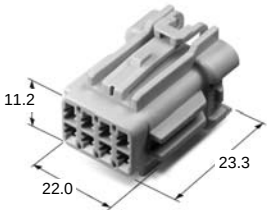
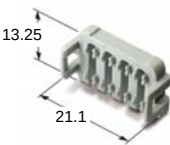
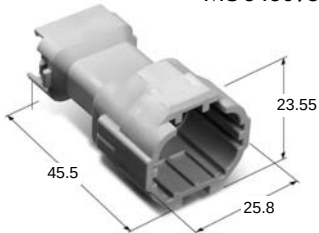
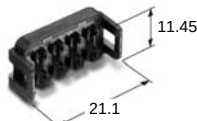
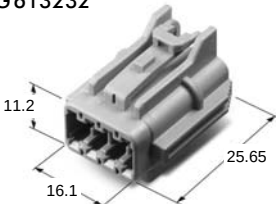
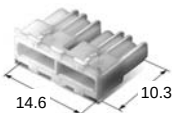
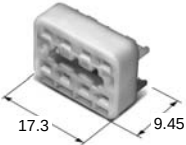
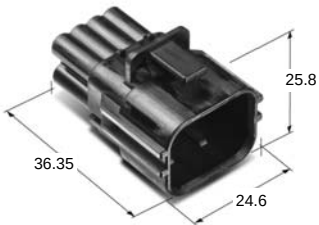
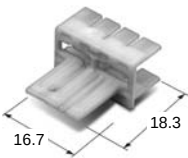
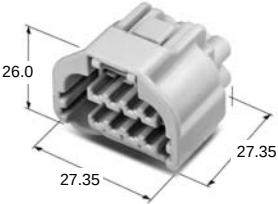
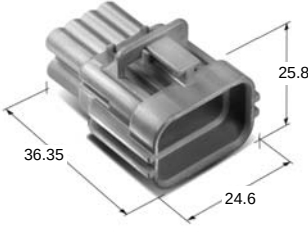
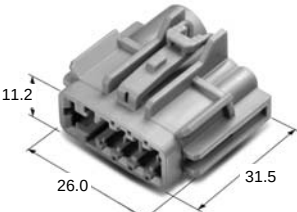
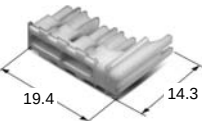
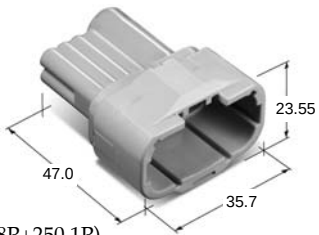
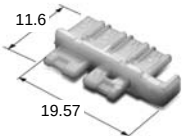
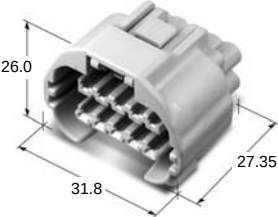
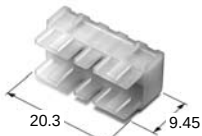
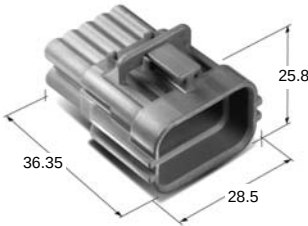
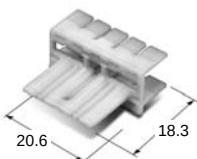
HOUSING

Poles	Plug housing for female terminal	Rear Holder	Receptacle housing for male terminal	Rear Holder
3	MG 643222 	MG 633228 		
	MG 643226 			
5			MG 642608 	MG 632609-7 
	MG 612612 	MG 632613-7 	MG 642611 	MG 632672-4 
6	MG 613230 	MG 633231 		
8	MG 642615 	MG 632616-7 		

040 WP(RK)

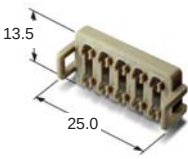
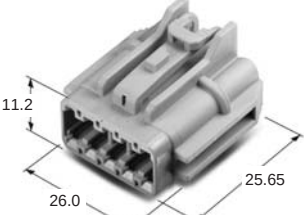
040 WP(RK) CONNECTOR

HOUSING

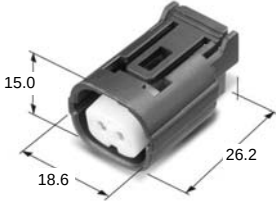
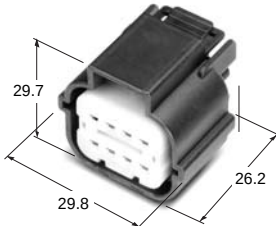
Poles	Plug housing for female terminal	Rear Holder	Receptacle housing for male terminal	Rear Holder
8	MG 613097  11.2 22.0 23.3	MG 633098-4  13.25 21.1	MG 643095  23.55 45.5 25.8	MG 633096  11.45 21.1
	MG 613232  11.2 16.1 25.65	MG 633233  14.6 10.3		
	MG 643380  26.0 27.35 27.35	MG 633382  17.3 9.45	MG 613406  25.8 36.35 24.6	MG 633408  16.7 18.3
	MG 643383  26.0 27.35 27.35	MG 613407  25.8 36.35 24.6		
9	MG 613234  11.2 26.0 31.5	MG 633235  19.4 14.3	MG 643236  23.55 47.0 35.7	MG 633238  11.6 19.57
	(040 8P+250 1P) MG 643385  26.0 31.8 27.35	MG 633387  20.3 9.45	MG 613409  25.8 36.35 28.5	MG 633410  20.6 18.3
10				

040 WP(RK) CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Rear Holder	Receptacle housing for male terminal	Rear Holder
10	MG 642618 	MG 632619-7 		
	MG 613239 	MG 633240 		

O40WP CONNECTOR(SENSOR)

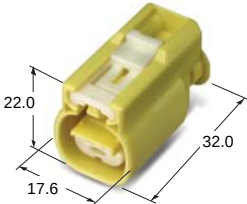
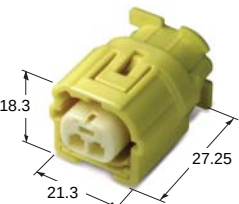
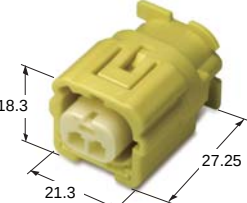
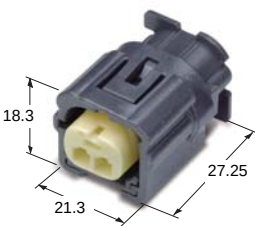
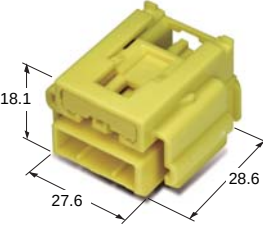
Poles	Receptacle housing for female terminal	
2	MG 644146 	MG 645696 
	MG 644145 	
8	Receptacle housing for female terminal MG 644803 	Plug housing for male terminal MG 644801 

AIRBAG CONNECTOR

- ▶ Miniaturized waterproof/ Non waterproof connector with its tab size of 040(1.0mm)
- ▶ One step CPA operation eliminates standard CPA operation
- ▶ Spring loaded slider (CPA) to prevent incomplete mating



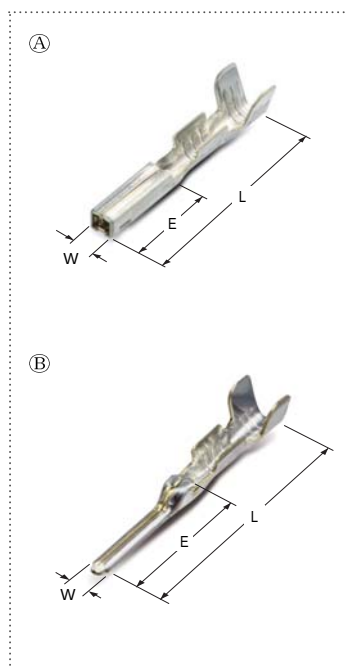
HOUSING

Poles	Plug housing for female terminal	
2	MG 645084-3	 Suitable Terminal : 7116-4221-08(7B16-4220-08) Suitable Housing : 7282-5524-70(7C82-5524-70) Suitable Wire Seal : 7158-3070-80
	MG 645088-3	 Suitable Terminal : 7116-4221-08(7B16-4220-08) Suitable Housing : 7282-5073-70(7C82-5073-70) Suitable Wire Seal : 7158-3070-80
	MG 645752-3	 Suitable Terminal : 7116-4221-08(7B16-4220-08) Suitable Wire Seal : 7158-3070-80
	MG 645753-4	 Suitable Terminal : 7116-4221-08(7B16-4220-08) Suitable Wire Seal : 7158-3070-80
	MG 655420-3	 Suitable Terminal : 7116-4231-08(7B16-4233-08) Suitable Housing : 7282-6134-70(7C82-6134-70)

58V(SP) WP CONNECTOR

- ▶ Small Size Multi-Pole Connectors designed for electronic equipment mounted on automobiles.
- ▶ High density, multi-pole type with 2.54mm pitch.
- ▶ Two piece type with a spring part inside female terminal. It provides more mechanical and electric reliability as well as durability and contact system reinforcement.
- ▶ Double Lock type with Rear Holder Designed to prevent backing-out and incomplete terminals insertion after inserting terminal into housing.

☛ TERMINAL



Part No.	Wire Range mm ²	Tab Thick.	Material		Dimension(mm)			Type
			Thick.	Finish	L	€	W	
ST730517-3	AVSS 0.3 -0.5	0.64	0.3	Brass & Copper Alloy	14.8	5.8	1.85	Ⓐ
ST741138-3	AVSS 0.3 -0.5	0.64	0.25	Pre-Tin	18.5	8.0	1.7	Ⓑ

☛ WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG684132	AEXF 0.3~0.5	Silicone	Green	3.6	13.9	Ⓒ
MG685230	AVSS 0.3~0.5	Silicone	Black	3.6	13.9	
MG684133	AEXF 0.3~0.5	Silicone	Red	3.6	13.9	
MG685231	AVSS 0.3~0.5	Silicone	Blue	3.6	13.9	
MG685449	AEXF 0.3~0.5	Silicone	Red	3.6	16.9	Ⓓ

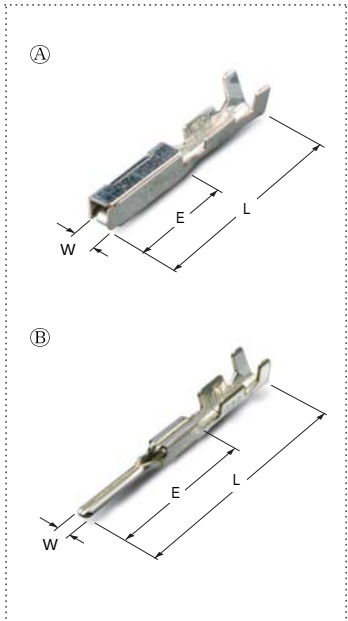


☛ HOUSING

Poles	Plug housing for female terminal		Receptacle housing for male terminal	
	MG614130-4	MG634131(Rear Holder)	MG644483-4	MG634131(Rear Holder)
6				
	Suitable Seal : Ⓒ		Suitable Seal : Ⓒ	
	MG615591-41	MG635691(Rear Holder)	MG645825-41	MG635691(Rear Holder)
8				
	Suitable Seal : Ⓓ		Suitable Seal : Ⓓ	

050 CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST731008-3	26-24	CHFUS 0.13~0.22 AVSS 0.22	0.64	0.2	Copper Alloy Pre-Tin	15.3	7.2	1.8	A
ST730751-3	22-20	AVSS 0.3~0.5	0.64	0.2	Copper Alloy Pre-Tin	15.3	7.2	1.8	
ST741009-3	24	AVSS 0.22	0.64	0.3	Brass Pre-Tin	21.75	13.2	1.25	B
ST740753-3	22-20	AVSS 0.3~0.5	0.64	0.3	Brass Pre-Tin	21.75	13.2	1.25	

- The blade width of male terminal for this connector is 0.050 inch and small size multi-pole connectors.
(Distinctive features)
1. Double terminal locking system eliminates terminal push-out.(Housing lance, Rear holder).
 - 2.Connectors can not be mated if preset terminal spacer is not in full-lock position.



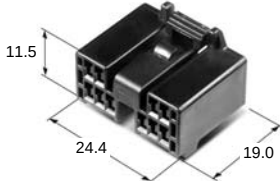
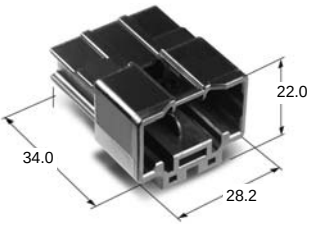
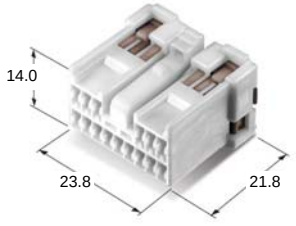
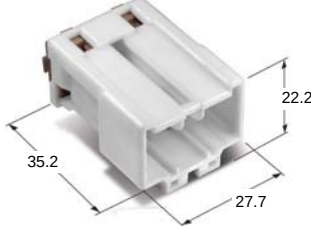
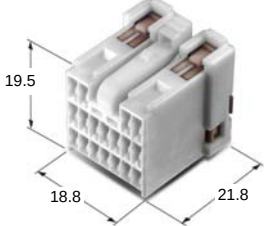
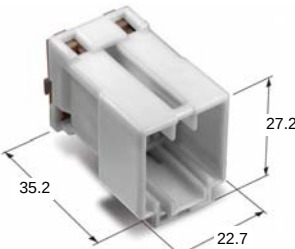
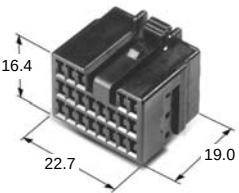
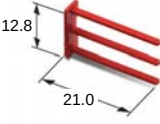
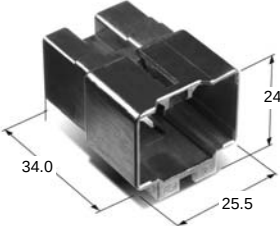
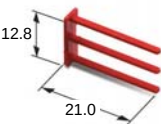
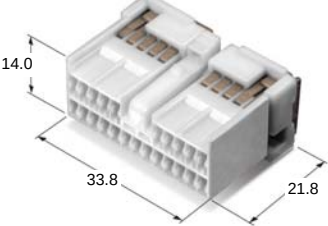
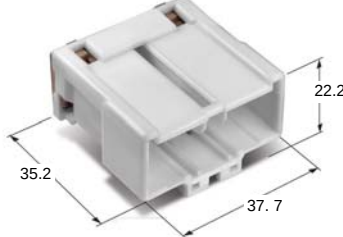
HOUSING

⇒ Suitable CLIP: 090II

Poles	Plug housing for female terminal	Receptacle housing for male terminal
2	MG651586 6.6 6.4 21.8	
5	MG614354 11.4 18.0 20.0	
7	MG614010 9.8 19.4 21.8	

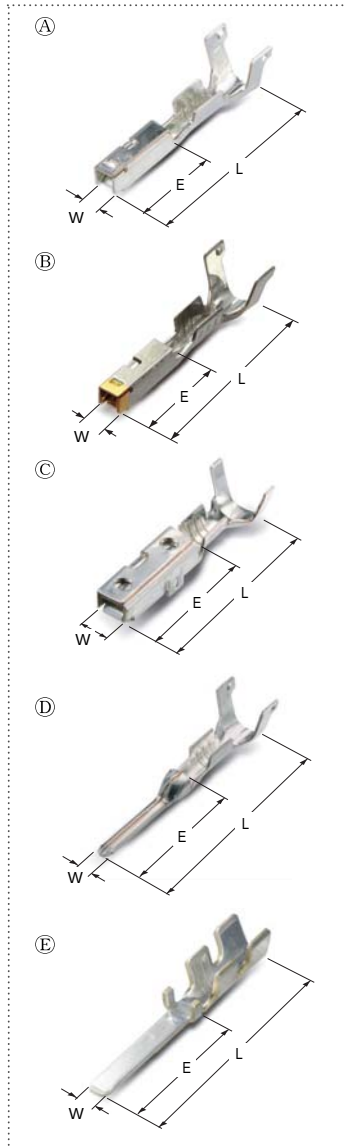
050 CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
10	MG 651580 	MG 641577 
15	MG 651598 	MG 641595 
18	MG 651575 	MG 641572 
21	MG 611987 MG 631988-1  	MG 623343 MG 631988-1  
23	MG 651563 	MG 641560 

SSD & 0509WP CONNECTOR

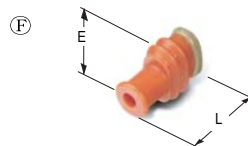
TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST730622-3	18	CAVS 0.3~0.5	0.64	0.2	Copper Alloy Pre-Tin	14.9	6.2	1.8	A
ST731188-G		CAVS 0.85							
ST730689-3	22-20	AVSS 0.3~0.5	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	C
ST730732-3	18-16	AVSS(CAVS) 0.85~1.25	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	
ST730733-3	14	AVSS 2.0	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	
ST740709-3	22-18	AVSS(CAVS) 0.3~0.85	0.64	0.25	Copper Alloy Pre-Tin	19.7	10.4	1.2	D
ST740630-3	18-16	AVSS(CAVS) 0.85~1.25	0.6	0.6	Brass Pre-Tin	26.3	14.8	2.25	E
ST741190-3									

WIRE SEAL(SSD)

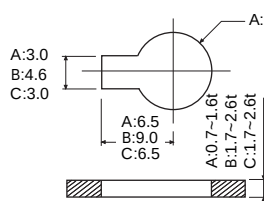
Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	E	
MG 680713	AVSS 0.3-0.5	Silicone	Red	7.8	6.0	F
MG 680714	AVS 0.3-0.5 AVSS 0.85	Silicone	Green	7.8	6.0	
MG 680715	Dummy Seal	Silicone	Black	8.2	6.2	G



⇒ Suitable Terminal © : SWP Wire Seal

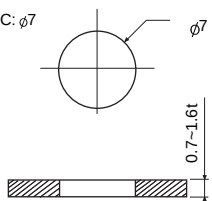
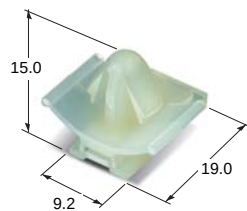
CLIP

MG 630418 (7 φ-A)
MG 630559 (9 φ-B)
MG 631467 (7 φ-C)



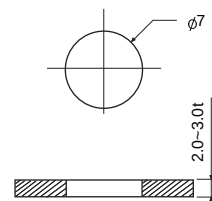
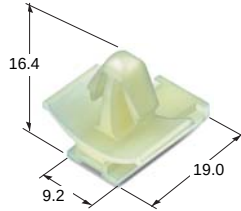
Bracket Hole Size

MG 630922



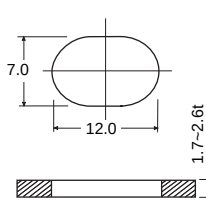
Bracket Hole Size

MG 633061



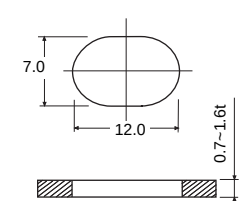
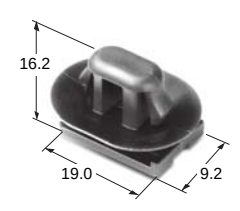
Bracket Hole Size

MG 633713



Bracket Hole Size

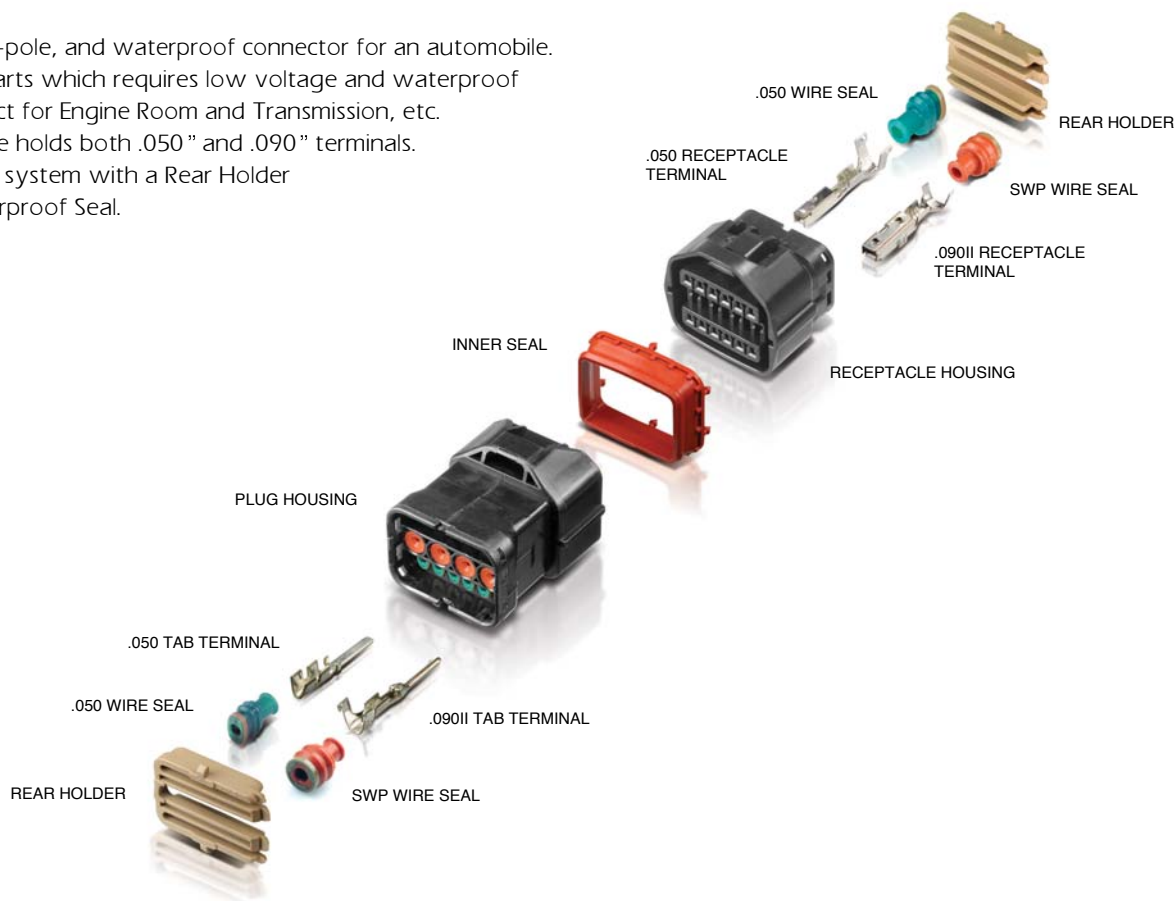
MG 634647



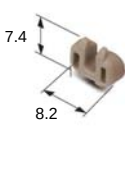
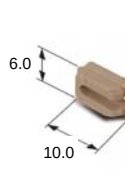
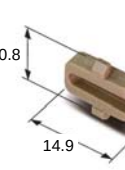
Bracket Hole Size

SSD & 0509WP CONNECTOR

- ▶Small size, multi-pole, and waterproof connector for an automobile.
- ▶Designed for parts which requires low voltage and waterproof function : Perfect for Engine Room and Transmission, etc.
- ▶Hybrid structure holds both .050" and .090" terminals.
- ▶Double Locking system with a Rear Holder
- ▶Individual waterproof Seal.

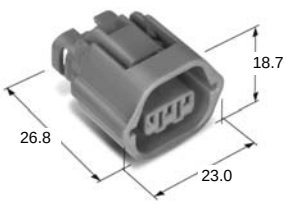
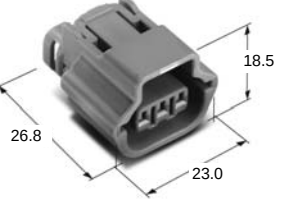
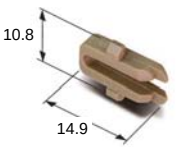
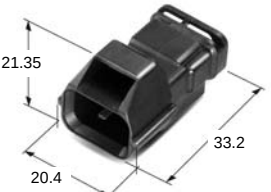
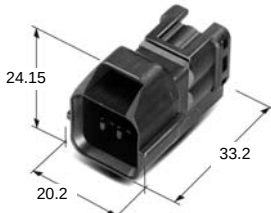
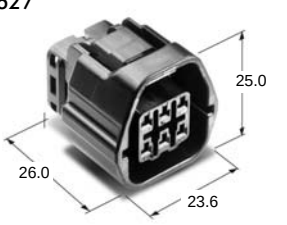
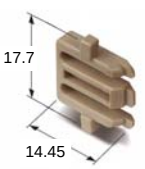
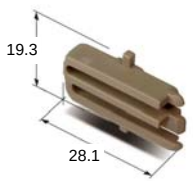
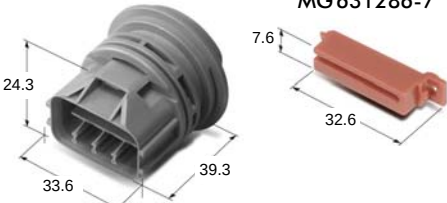


HOUSING

Poles	Plug housing for male terminal	Receptacle housing for female terminal	Rear holder
1	MG 610701 	MG 640703 	MG 630704-7 
2	MG 610705 	MG 640707 MG 642562(ATM) 	MG 630708-7 
3	MG 611611 	MG 641234 	MG 631233-7 

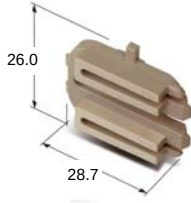
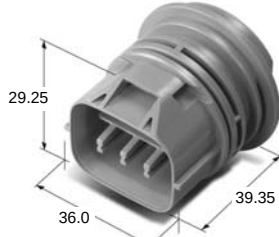
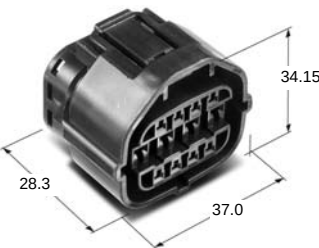
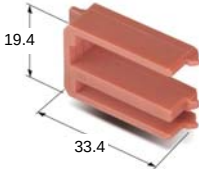
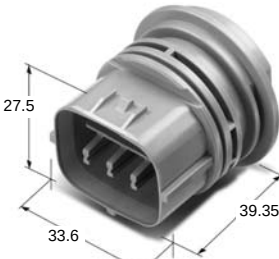
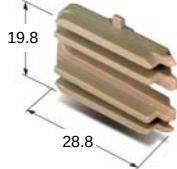
SSD & 0509WP CONNECTOR

HOUSING

Poles	Receptacle housing for female terminal			Rear holder
3	MG 641295-4 	MG 643744(A) 	MG 643746(B) 	MG 631233-7 
Poles	Plug housing for male terminal	Receptacle housing for female terminal		Rear holder
4	MG 611236 	MG 641238 		MG 631237-7 
6	MG 611624 	MG 641627 		MG 631626-7 
10	MG 643793 		MG 631289-7 	
	MG 612716-40(5)(ATM) (HPA) MG 612717-5(4)(ATM) MG 631286-7 		MG 641288-4(B) 	
	(050 WP 6P+090 4P) Suitable Terminal: ST740562, ST740630		MG 641299(A) 	
			(050 WP 6P+090 WP 4P)	

SSD & 0509WP CONNECTOR

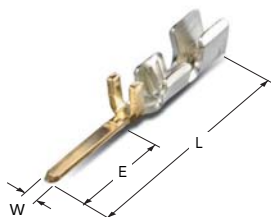
HOUSING

Poles	Plug housing for male terminal	Receptacle housing for female terminal	Rear holder
12	MG 610709  (090II WP TAB)	MG 640711(R/H;MG 630712-7) 	MG 630712-7 
	MG 612626-41(HPA)  Suitable Terminal: ST740562, ST740630	MG 643739(R/H;MG 630712-7)  (050 WP 8P+090II SWP 4P)	MG 632627-7 
	MG 613740  Suitable Terminal: ST740562, ST740630	MG 641767  (050 WP 12P+090 WP 4P)	MG 631766-7 

OTS CONNECTOR

TERMINAL

Ⓐ



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST740562-G	20	AVSS 0.5	0.64	0.64	Brass/Au	23.2	10.5	1.2	Ⓐ
ST741189-G	20	AVSS 0.5	0.64	0.64	Brass/Au	23.2	10.5	1.2	

WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG 680255	AVSS 0.5	Acryl	Black	4.0	7.0	Ⓑ

Ⓑ

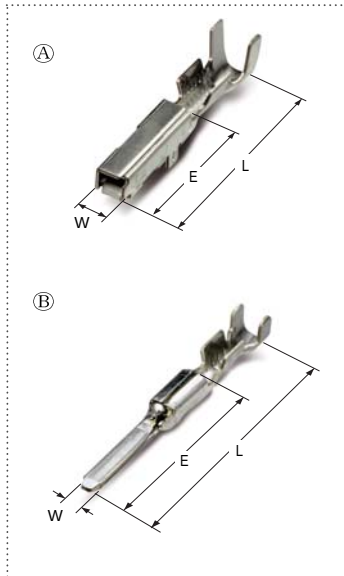


HOUSING

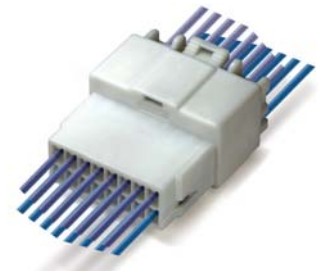
Poles	Plug housing for male terminal	Receptacle housing for female terminal	Rear holder
	MG 630254	MG 640707	MG 630708-7
2			

N060 CONNECTOR

TERMINAL

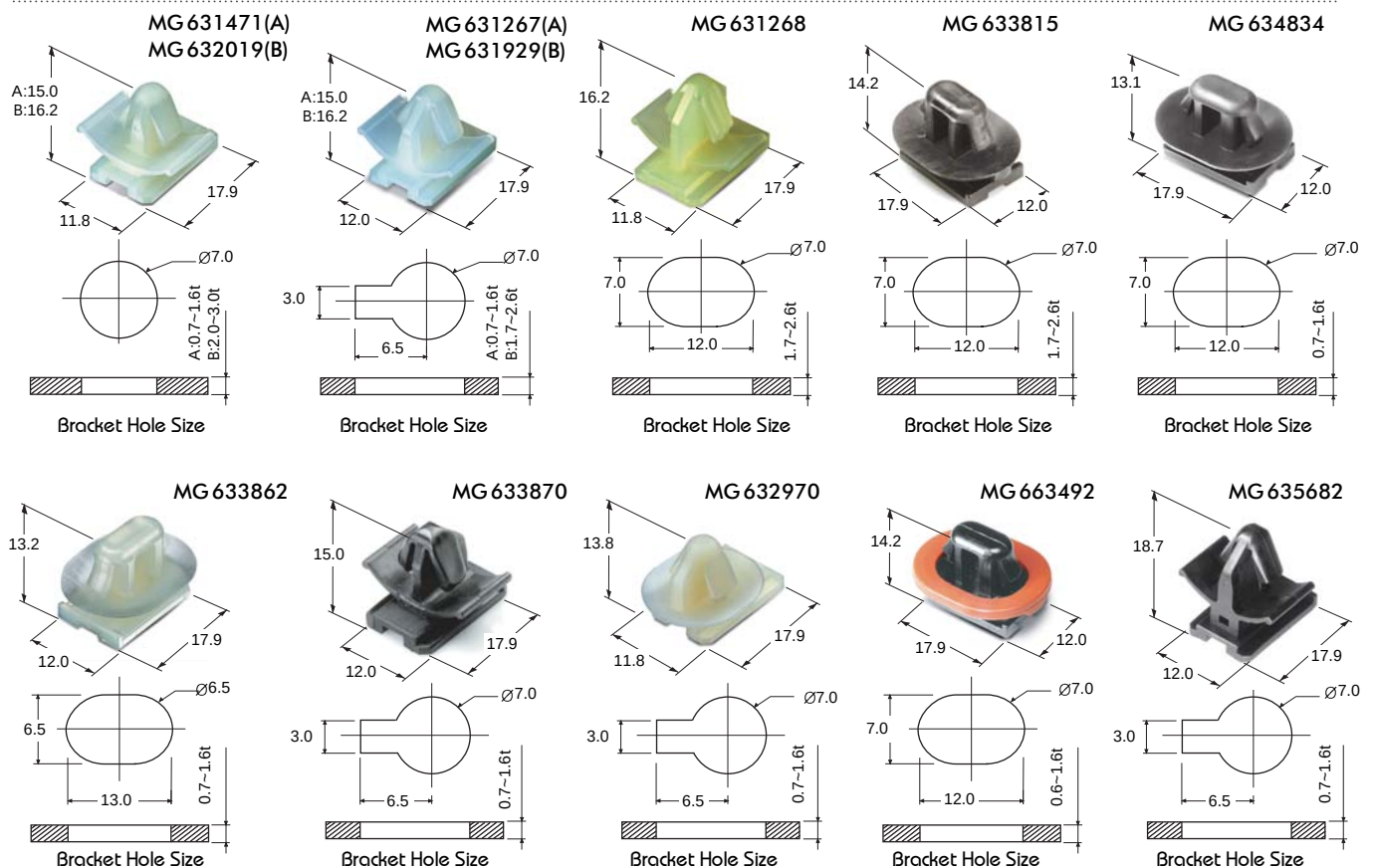


Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST731334-3	24	CHFUS 0.22 AVSS 0.22	0.64	0.25	Copper Alloy Pre-Tin	16.2	8.5	2.2	A
ST731335-3	22-20	AVSS 0.3-0.5	0.64	0.25	Copper Alloy Pre-Tin	16.2	8.5	2.2	
ST731336-3	18-16	AVSS 0.85-1.25	0.64	0.25	Copper Alloy Pre-Tin	16.7	8.5	2.2	
ST741331-3	24	CHFUS 0.22 AVSS 0.22	0.64	0.3	Brass Pre-Tin	22.7	15.0	1.5	B
ST741332-3	22-20	AVSS 0.3-0.5	0.64	0.3	Brass Pre-Tin	22.7	15.0	1.5	
ST741333-3	18-16	AVSS 0.85-1.25	0.64	0.3	Brass Pre-Tin	23.2	15.0	1.5	



N060

CLIP



N060 CONNECTOR

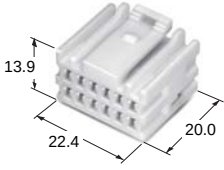
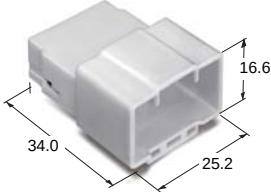
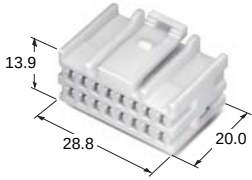
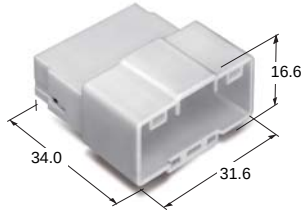
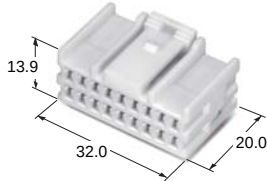
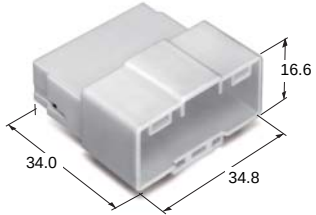
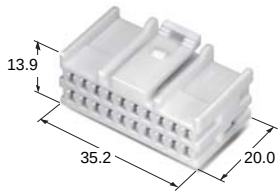
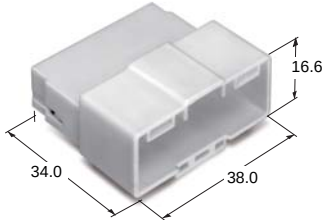
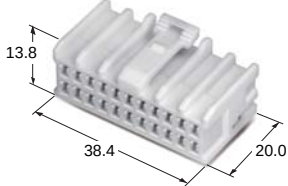
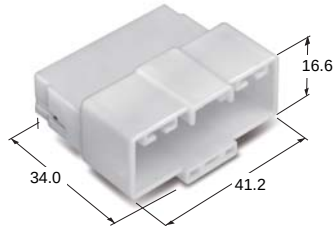
- ▶ The 060 Connector is non waterproof connector with blade width of 0.060 inch (0.64mm)
- ▶ Double locking mechanism to prevent terminal push-out, Pre-set holder
- ▶ Unification of spacer assures complete terminal insertion



Poles	Plug housing for female terminal	Receptacle housing for male terminal
2	MG 655593	MG 645590
4	MG 655598	MG 645595
6	MG 655574	MG 645571
8	MG 655603	MG 645600
10	MG 655608	MG 645605

N060 CONNECTOR

HOUSING

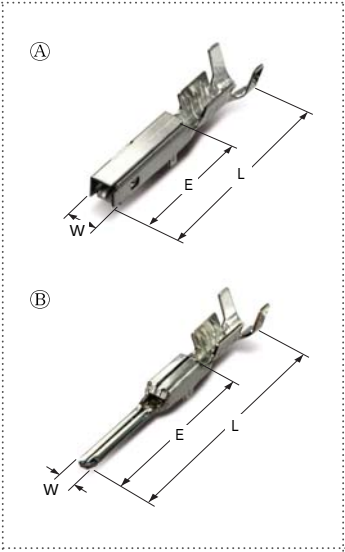
Poles	Plug housing for female terminal	Receptacle housing for male terminal
12	MG655613 	MG645610 
14	MG655618 	MG645615 
16	MG655623 	MG645620 
18	MG655628 	MG645625 
20	MG655633 	MG645630 
22	MG655638 	MG645635 

N060

060(0.8T) CONNECTOR

- ▶ The 060 Connector is non waterproof connector with blade width of 0.060 inch (0.64mm)
- ▶ Double locking mechanism to prevent terminal push-out, Pre-set holder
- ▶ Unification of spacer assures complete terminal insertion

TERMINAL



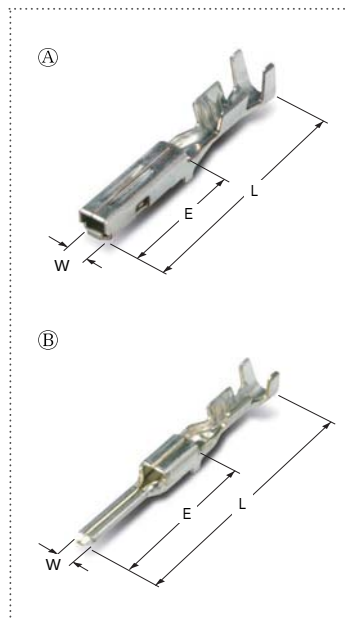
Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST731267-3	24	CHFUS 0.22 AVSS 0.22	0.8	0.25	Copper Alloy Pre-Tin	19.0	10.0	2.5	Ⓐ
ST731268-3	22-20	AVSS 0.3~0.5	0.8	0.25	Copper Alloy Pre-Tin	19.0	10.0	2.5	
ST731269-3	18-16	AVSS 0.85~1.25	0.8	0.25	Copper Alloy Pre-Tin	19.0	10.0	2.5	
ST741270-3	24	CHFUS 0.22 AVSS 0.22	0.8	0.3	Copper Alloy Pre-Tin	25.3	16.3	1.5	Ⓑ
ST741271-3	22-20	AVSS 0.3~0.5	0.8	0.3	Copper Alloy Pre-Tin	25.3	16.3	1.5	
ST741272-3	18-16	AVSS 0.85~1.25	0.8	0.3	Copper Alloy Pre-Tin	25.3	16.3	1.5	

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
10	MG655175	MG645172

060(62C) CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST730703-3	24~22	AVSS(CAVS) 0.2~0.3	0.6	0.25	Copper Alloy Pre-Tin	19.1	9.4	2.5	Ⓐ
ST730704-3	20-18	AVSS(CAVS) 0.5~0.85	0.6	0.25	Copper Alloy Pre-Tin	19.1	9.4	2.5	
ST740719-3	24~22	AVSS(CAVS) 0.2~0.3	0.6	0.3	Brass Pre-Tin	22.9	13.1	1.5	Ⓑ
ST740720-3	20-18	AVSS(CAVS) 0.5~0.85	0.6	0.3	Brass Pre-Tin	22.9	13.1	1.5	

► Miniaturization and weight reduction of existing s-type connector of 58 series.
(Distinctive features)

1. Improved hinge rear holder mating for easy connection.
2. Double terminal locking system eliminates terminal push-out.
(Housing lance, Rear holder).
3. Stable/secure mating action between male and female connectors.



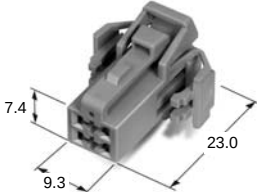
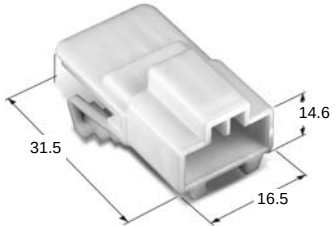
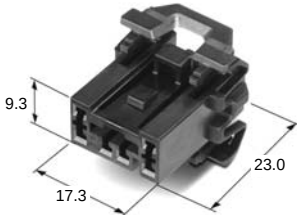
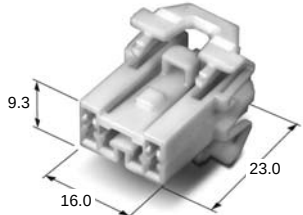
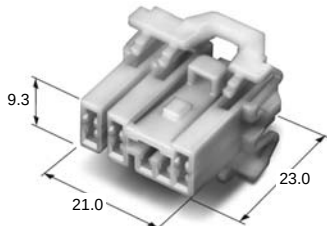
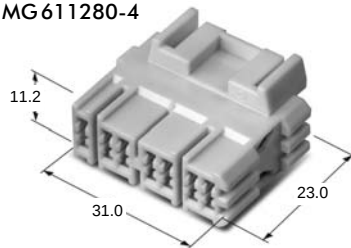
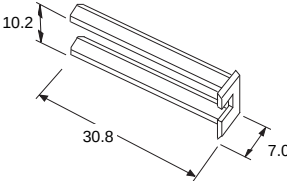
HOUSING

⇒ Suitable CLIP: SDL, SWP Type

Poles	Plug housing for female terminal	Receptacle housing for male terminal	
2	MG 611271-7 	MG 621386-7 	MG 641300
	MG 611272 	MG 621387-5 	
	MG 611273 	MG 621388 	

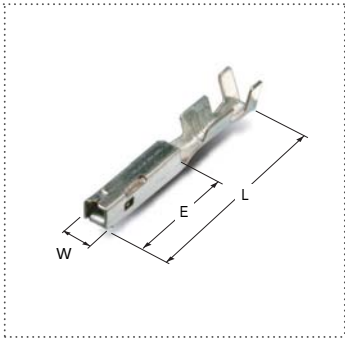
060(62C) CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
3	MG 611297  MG 611530 	
4	MG 611275  MG 611274-7 	MG 621389 
6	MG 611276  MG 611277 	
8	MG 611278 	
14	MG 611280-4  MG 631279-5 	

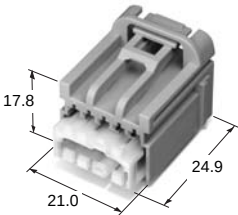
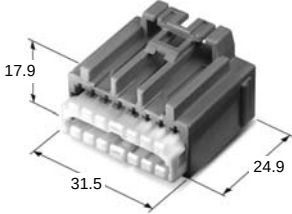
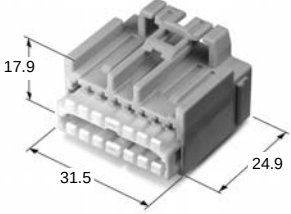
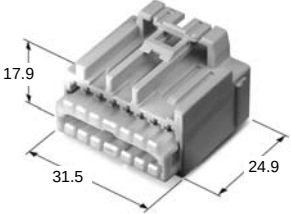
060II CONNECTOR

060II TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST730796-3	22-20	AVSS 0.3~0.5	0.8	0.25	Copper-Alloy Pre-Tin	20.7	10.0	2.5	
ST730796-G	22-20	AVSS 0.3~0.5	0.8	0.25	Copper-Alloy Pre-Tin	20.7	10.0	2.5	
ST730797-3	18-16	AVSS 0.85~1.25	0.8	0.25	Copper-Alloy Au	20.7	10.0	2.5	
ST730797-G	18-16	AVSS 0.85~1.25	0.8	0.25	Copper-Alloy Pre-Tin	20.7	10.0	2.5	

060II HOUSING

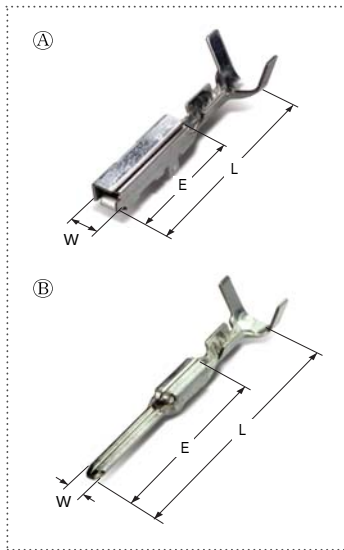
Poles	Plug housing for female terminal		
10	MG 655347-41		
16	MG 651804-2	MG 651803-6	MG 651802-4
			

N060 WP CONNECTOR

- The 060 Connector is waterproof connector with blade width of 0.060 inch (0.64mm)
- Double locking mechanism to prevent terminal push-out, Pre-set holder
- Unification of spacer assures complete terminal insertion



TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST731367-3	24	CHFUS 0.22	0.64	0.25	Copper Alloy Pre-Tin	17.5	8.5	2.2	Ⓐ
ST731368-3	22-20	AEXF(AVSSXF) 0.3~0.5	0.64	0.25	Copper Alloy Pre-Tin	17.5	8.5	2.2	
ST731369-3	18-16	AEXF(AVSSXF) 0.85~1.25	0.64	0.25	Copper Alloy Pre-Tin	17.5	8.5	2.2	
ST741340-3	24	CHFUS 0.22	0.64	0.3	Brass Pre-Tin	24.7	15.7	1.5	Ⓑ
ST741341-3	22-20	AEXF(AVSSXF) 0.3~0.5	0.64	0.3	Brass Pre-Tin	24.7	15.7	1.5	
ST741342-3	18-16	AEXF(AVSSXF) 0.85~1.25	0.64	0.3	Brass Pre-Tin	24.7	15.7	1.5	

WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Type
MG 685390	AVSSXF 0.3~0.5	Silicone	Red	Ⓒ
MG 685391	AEXF 0.3~0.5 AVSSXF 0.85~1.25	Silicone	Green	
MG 685392	AEXF 0.85	Silicone	Black	
MG 685393	AEXF 1.25	Silicone	Gray	
MG 685394	Dummy Seal	Silicone	Green	Ⓓ

Ⓒ



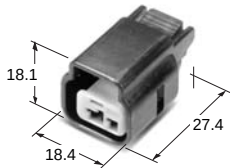
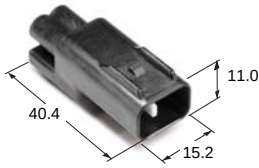
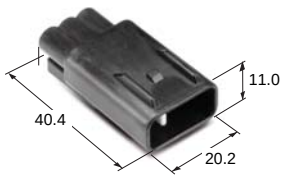
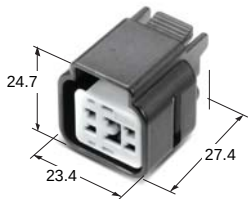
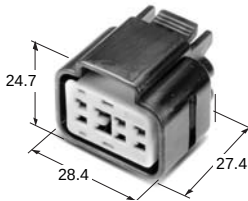
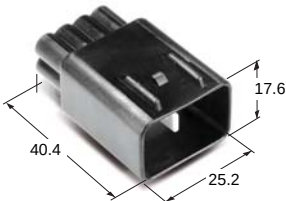
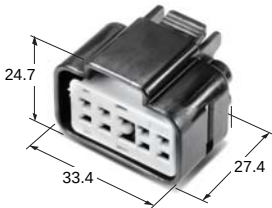
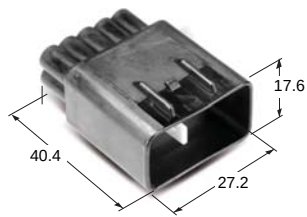
Ⓓ



CLIP : Suitable Clip(090II)

N060 WP CONNECTOR

HOUSING

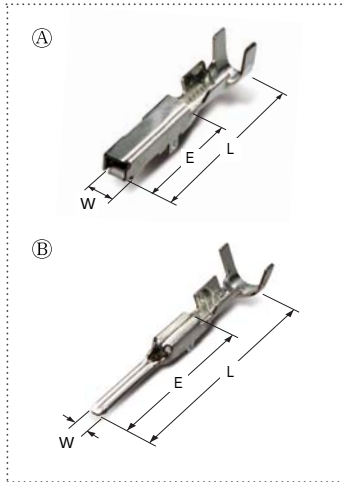
Poles	Plug housing for female terminal	Receptacle housing for male terminal
2	MG 645638  Dimensions: 18.1, 18.4, 27.4	MG 655641  Dimensions: 40.4, 15.2, 11.0
3	MG 645639  Dimensions: 18.1, 23.4, 27.4	MG 655642  Dimensions: 40.4, 20.2, 11.0
6	MG 645579  Dimensions: 24.7, 23.4, 27.4	MG 655640  Dimensions: 40.4, 20.2, 17.6
8	MG 645725  Dimensions: 24.7, 28.4, 27.4	MG 655673  Dimensions: 40.4, 25.2, 17.6
10	MG 645640  Dimensions: 24.7, 33.4, 27.4	MG 655643  Dimensions: 40.4, 27.2, 17.6

N060 WP

060 WP(0.8T) CONNECTOR

- The 060 Connector is waterproof connector with blade width of 0.060 inch (0.80mm)
- Double locking mechanism to prevent terminal push-out, Pre-set holder
- Unification of spacer assures complete terminal insertion

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST731273-3	24	CHFUS 0.22	0.8	0.25	Copper Alloy Pre-Tin	19.8	10.0	2.5	A
ST731274-3	22-20	AEXF(AVSSXF) 0.3~0.5	0.8	0.25	Copper Alloy Pre-Tin	19.8	10.0	2.5	
ST731275-3	18-16	AEXF(AVSSXF) 0.85~1.25	0.8	0.25	Copper Alloy Pre-Tin	19.8	10.0	2.5	
ST741276-3	24	CHFUS 0.22	0.8	0.3	Brass Pre-Tin	26.1	16.3	1.5	B
ST741277-3	22-20	AEXF(AVSSXF) 0.3~0.5	0.8	0.3	Brass Pre-Tin	26.1	16.3	1.5	
ST741278-3	18-16	AEXF(AVSSXF) 0.85~1.25	0.8	0.3	Brass Pre-Tin	26.1	16.3	1.5	

WIRE SEAL



Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG 683894	AVSSXF 0.3~0.5	Silicone	Blue	6.8	5.4	C
MG 683895	AEXF 0.3~0.5 AVSSXF 0.85~1.25	Silicone	Red	6.8	5.4	
MG 683896	AEXF 0.85	Silicone	Black	6.8	5.4	
MG 683897	AEXF 1.25	Silicone	Green	6.8	5.4	
MG 683898	Dummy seal	Silicone	Blue	6.2	5.5	D



⇒ Suitable Clip: 090II Type

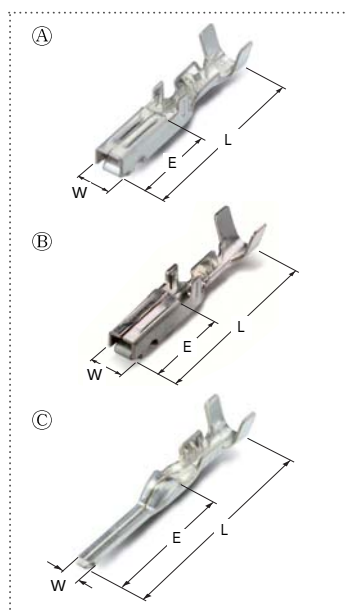
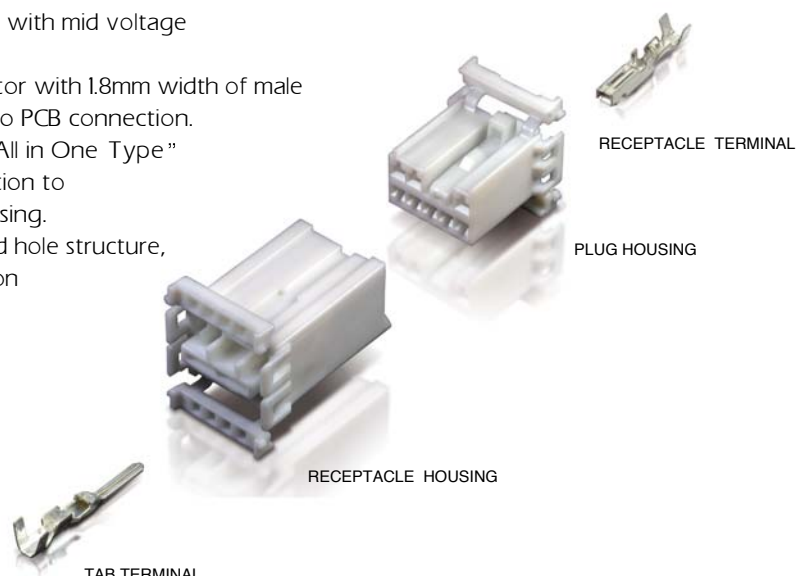
HOUSING

Poles	Plug housing for female terminal		Receptacle housing for male terminal	
2	MG 654467-4	MG 634466-2		
6	MG 615547	MG 630338-7	MG 645690	MG 630338-7
8	MG 645450		MG 655447	

SDL CONNECTOR

SDL(Suitable Double Lock) CONNECTOR

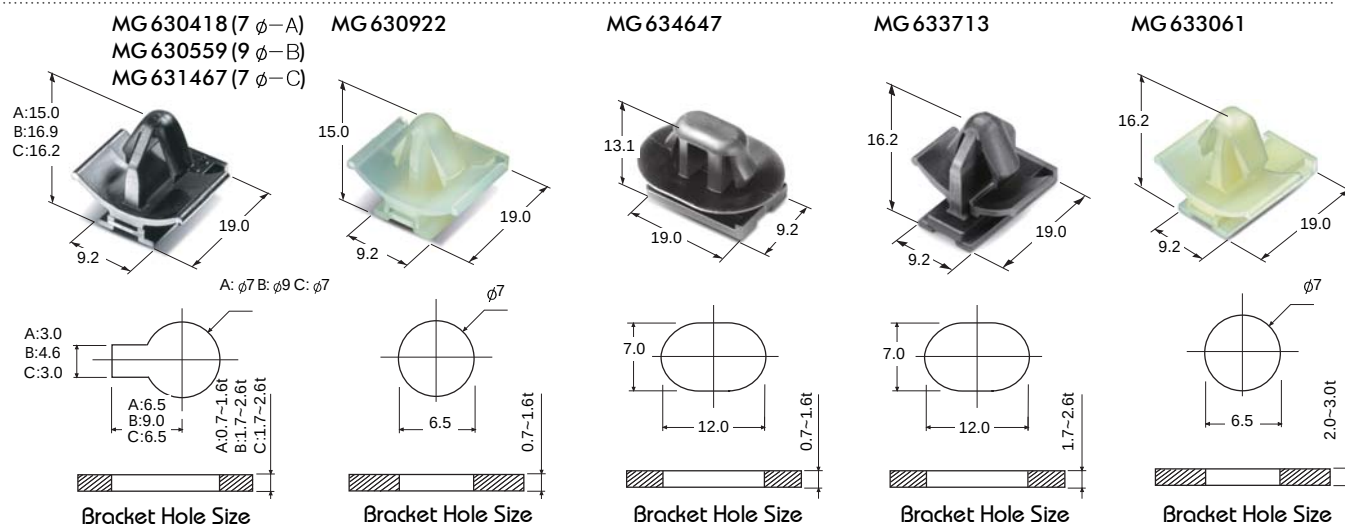
- Suitable Double Lock Connector designed for circuits with mid voltage applications in automobiles.
- These are multi-pole, small, non waterproof Connector with 1.8mm width of male terminal and can be used for wire to wire and wire to PCB connection.
- Double Lock Function with Rear Holder. These are "All in One Type" with a hinged rear holder, and with double lock function to combine rear holder after inserting terminal into housing.
- As the receptacle housing is designed to have squared hole structure, the alignment of male terminal is excellent and vibration of terminal inside the housing is eliminated.
- The spring section of female terminal is designed with sufficient displacement to improve contact stability and reliability.



TERMINAL

Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST 730497-3	22-18	AVSS 0.3~0.85	0.64	0.25	Copper Alloy Pre-Tin	18.1	7.0	2.7	A
ST 730498-3	16-14	AVSS 1.25~2.0	0.64	0.25	Copper Alloy Pre-Tin	18.1	7.0	2.7	
ST 731099-3	26-24	AVSS 0.22 CHFUS 0.13-0.22	0.64	0.25	Copper Alloy Pre-Tin	18.1	7.0	2.7	B
ST 740484-3	22-18	AVSS 0.3~0.85	0.64	0.3	Brass Pre-Tin	22.9	12.5	1.8	C
ST 740485-3	16-14	AVSS 1.25~2.0	0.64	0.3	Brass Pre-Tin	22.9	12.5	1.8	

CLIP

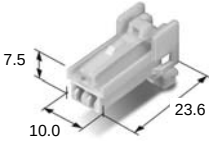
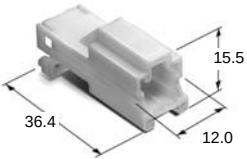
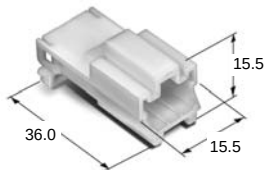
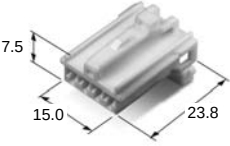
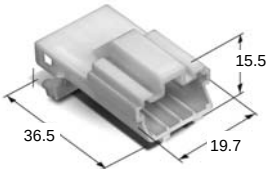
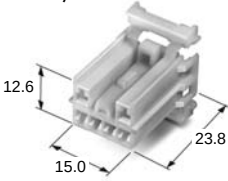
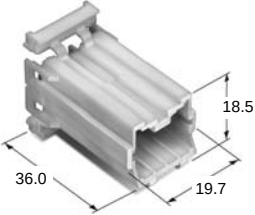
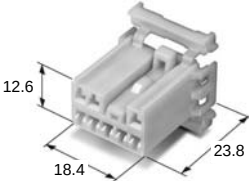
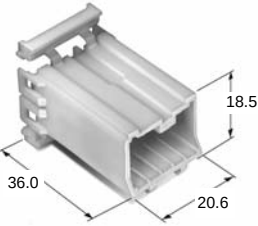
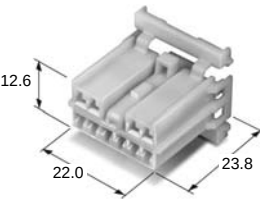
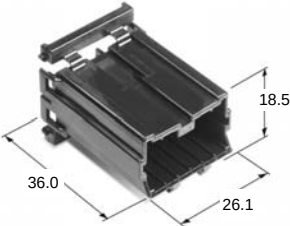


SDL CONNECTOR



- The blade width of male terminal for this connector is 0.070 inch. (Distinctive features)
- Separate piece (Rather than hinged) rear holder utilize workability in automated harness assembly.

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
2	MG 610392 	MG 620393 
3	MG 610394 	MG 620395 
4	MG 610396 	MG 620397 
6	MG 610398 MG 611365(M/Function) 	MG 620401 
8	MG 610402 	MG 620403 
10	MG 610404 	MG 620405 

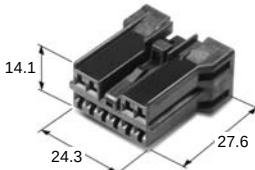
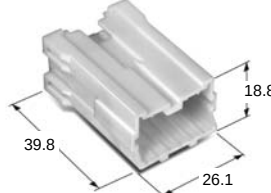
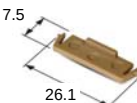
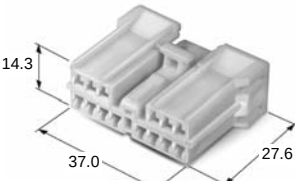
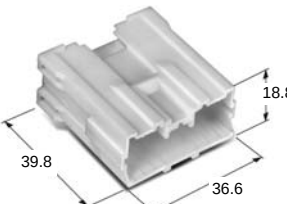
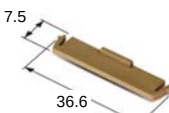
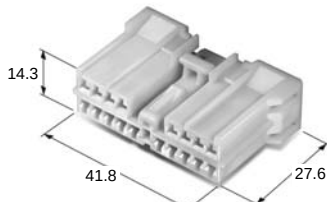
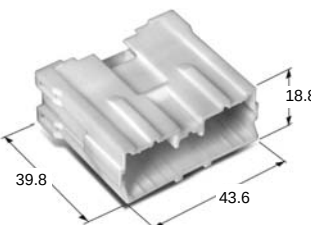
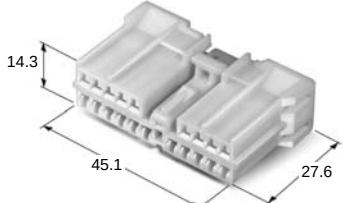
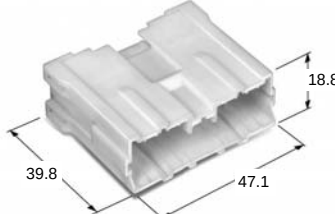
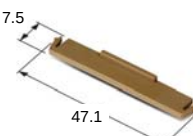
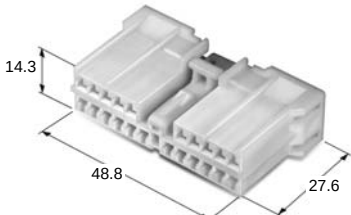
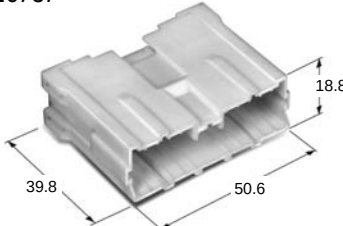
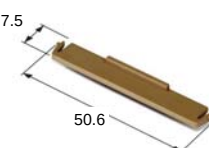
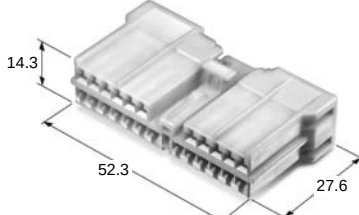
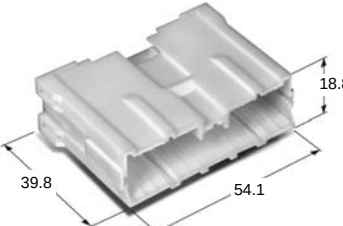
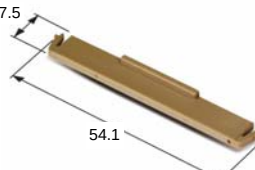
SDL CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
12	MG 614475 	
14	MG 610406 	MG 620407
18	MG 610408 	MG 620409
20	MG 610410 	MG 620411
	MG 610412 	MG 620413
		MG 630414-7
22	MG 610415 	MG 620416

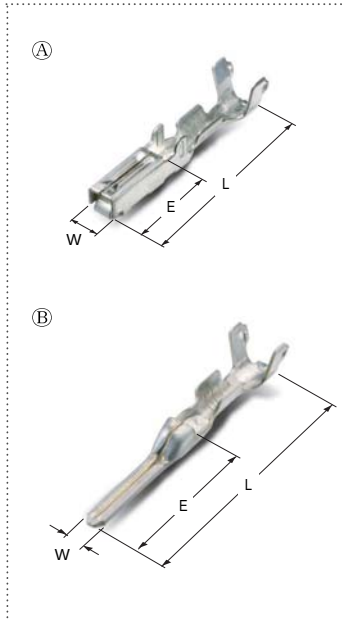
SDLI CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal	Rear holder
10	MG611176 	MG621177 	MG631178-7 
14	MG611514 	MG621515 	MG631516-7 
18	MG611179 	MG621180 	MG631181-7 
20	MG611517 	MG621518 	MG631519-7 
22	MG610786 	MG620787 	MG630788-7 
24	MG611120 	MG621121 	MG631122-7 

SWP CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST730495-3	22-18	AVS(CAVS) 0.3~0.85	0.64	0.25	Copper Alloy Pre-Tin	18.7	7.0	2.7	(A)
ST730496-3	16-14	AVS(CAVS) 1.25~2.0	0.64	0.25	Copper Alloy Pre-Tin	18.7	7.0	2.7	
ST740482-3	22-18	AVS(CAVS) 0.3~0.85	0.64	0.3	Brass Pre-Tin	23.4	12.5	1.8	(B)
ST740483-3	16-14	AVS(CAVS) 1.25~2.0	0.64	0.3	Brass Pre-Tin	23.4	12.5	1.8	

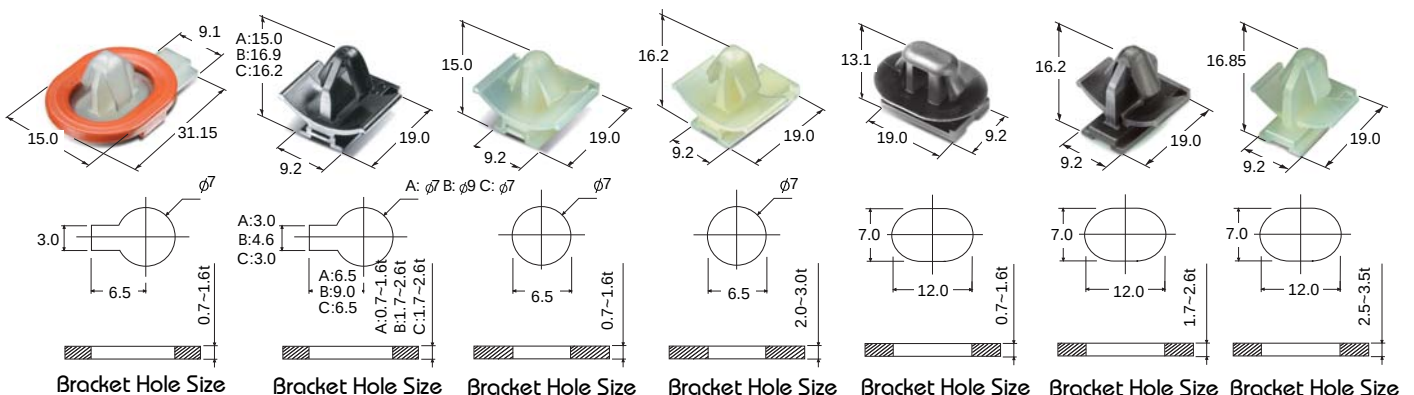
WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG680448	CAVS 0.3 AVSS 0.3	Silicone	Green	8.1	Ø5.9	(C)
MG680449	AVS 0.3-0.5 CAVS 0.5-0.85	Silicone	Black	8.1	Ø5.9	
MG680450	AVS 0.85 AVSS 1.25	Silicone	Orange	8.1	Ø5.9	
MG680451	AVS 1.25 AVSS 2.0	Silicone	Blue	8.1	Ø5.9	
MG680772	SSWP Wire Seal(M)	Silicone	Blue	8.1	Ø5.9	
MG680773	SSWP Wire Seal(L)	Silicone	Blue	8.1	Ø5.9	
MG681266	Dummy Seal	Silicone	Blue	6.8	Ø5.9	(D)
MG680477	SWP DUMMY Seal	Silicone	Natural	8.1	Ø5.9	(E)



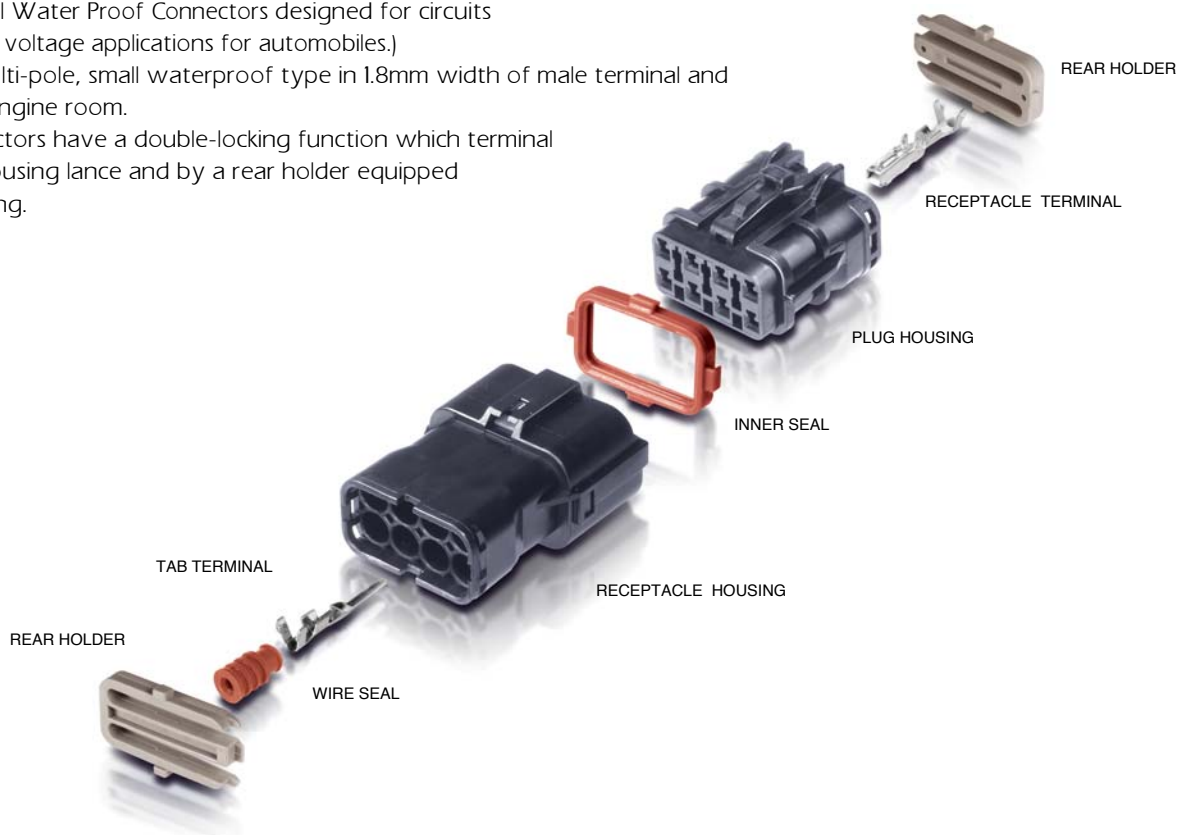
CLIP

MG664128 (7 φ-A) MG630418 (7 φ-A) MG630922 MG633061 MG634647 MG633713 MG635716
 MG630559 (9 φ-B)
 MG631467 (7 φ-C)



SWP CONNECTOR

- Superior Small Water Proof Connectors designed for circuits (in the middle voltage applications for automobiles.)
- These are multi-pole, small waterproof type in 1.8mm width of male terminal and suitable for engine room.
- These connectors have a double-locking function which terminal is fixed by housing lance and by a rear holder equipped behind housing.



HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal	Rear Holder
1	MG 610278 	MG 640280 	
2	MG 610320 	MG 640322 MG 642552(CAP) 	MG 630326-7
3	MG 610327 MG 612181(Dummy) 	MG 640329 	MG 630330-7

SWP CONNECTOR

- Function to prevent false-connections:these connectors have a rib installed inside receptacle housing to insure mating of plug & receptacle.
- Inertial Locking Mode : when combining connectors (maximum to 8p), repellent force lock reaches zero just before male & female terminal are going to contact, and connectors are completely combined due to inertial force.
- Individual wire seal :it makes easy to insert into housing due to two piece structure with resinous rear stopper inside wire seal.

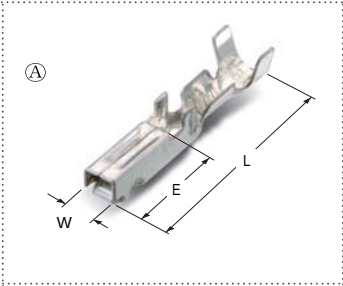


HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal	Rear Holder
4	MG 610331 	MG 640333 	MG 630334-7
6	MG 610335 	MG 640337 MG 642554(CAP) MG 643424(CAP+CLIP)	MG 630338-7
8	MG 610339 	MG 640341 	MG 630345-7
12	MG 610346 	MG 640348 	MG 630349-7
14	MG 610350 	MG 640352 	MG 630353-7

DIAGNOSIS CONNECTOR

➤ OBDII TERMINAL



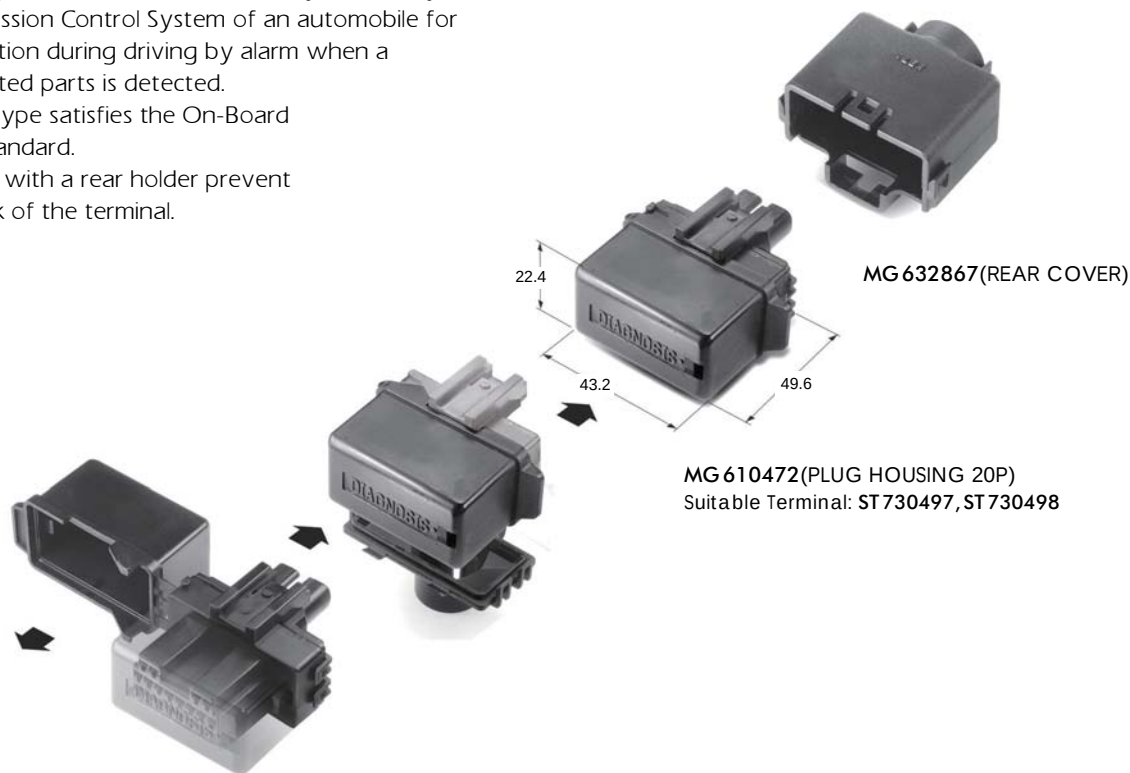
Part No.	Wire Range		Tab Thick.	Thick.	Material		Dimension(mm)			Type
	AWG	mm ²			Finish		L	E	W	
ST730618-3	22-20	AVSS 0.3-0.5	0.8	0.25	Copper Alloy Pre-Tin		16.2	6.7	2.6	

➤ OBDII HOUSING

Poles	Plug housing for female terminal	Rear Holder
16	MG 610761 21.4 69.5 27.7 3.5	MG 630762 30.3 13.9

➤ DIAGNOSIS CONNECTOR

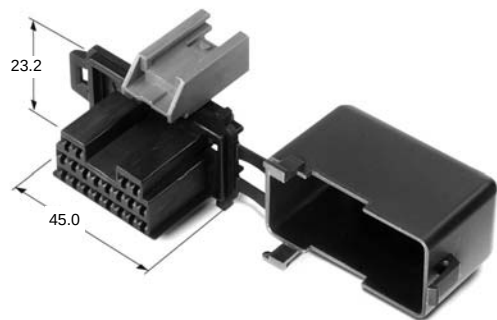
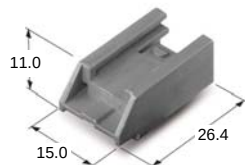
- Contributes to protection of environment by constantly monitoring Emission Control System of an automobile for Its proper function during driving by alarm when a disorder in related parts is detected.
- Screw mount type satisfies the On-Board Diagnostic I|standard.
- Double locking with a rear holder prevent incomplete lock of the terminal.



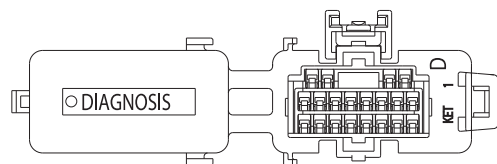
DIAGNOSIS CONNECTOR

DIAGNOSIS CONNECTOR

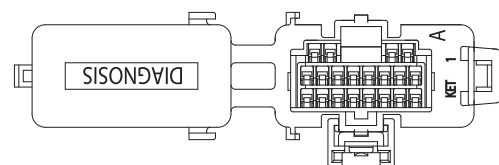
DIAGNOSIS 20F SUB CLIP



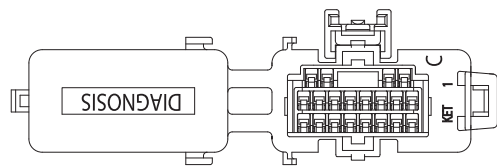
MG652863



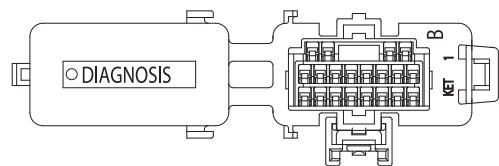
MG652864



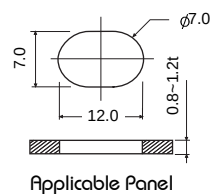
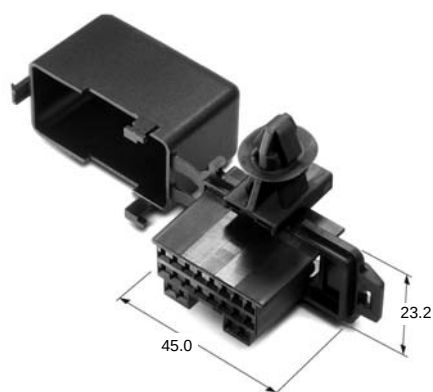
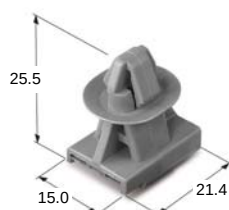
MG653650(Clip:Dark Gray)
MG653849(Clip:BLACK)



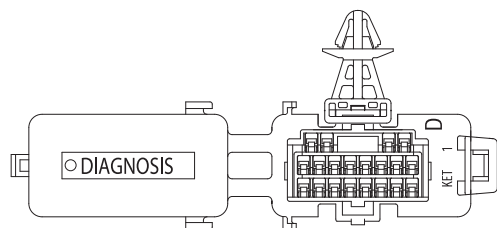
MG653651



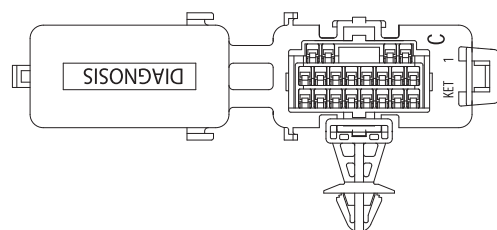
DIAGNOSIS CLIP(7.0X12.0 TYPE)



MG653077



MG653078

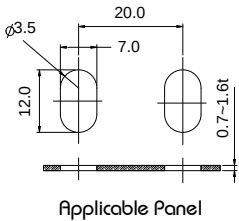
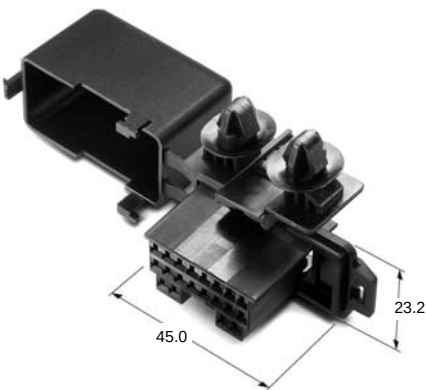
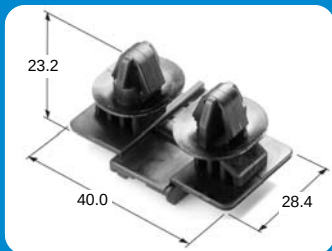


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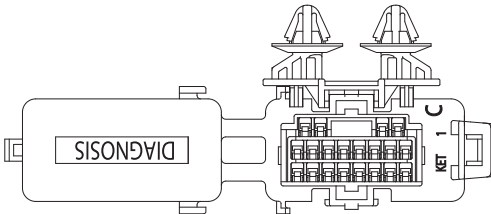
DIAGNOSIS CONNECTOR

DIAGNOSIS CONNECTOR

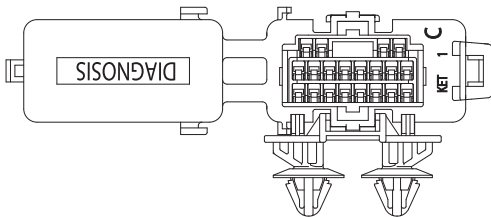
DIAGNOSIS 20F DOUBLE CLIP



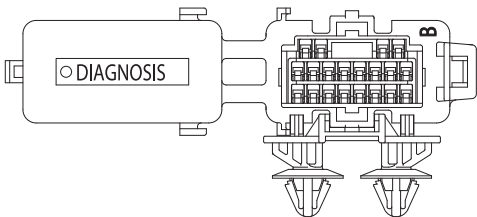
MG 653479



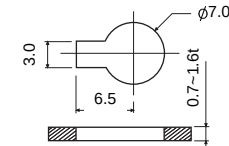
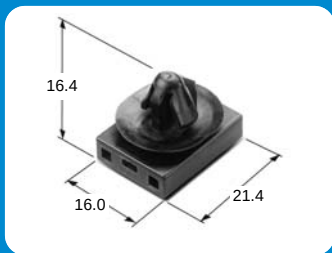
MG 653480



MG 653693

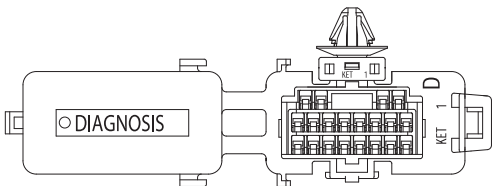


DIAGNOSIS 20F CLIP (Ø7.0 KEY HOLE TYPE)

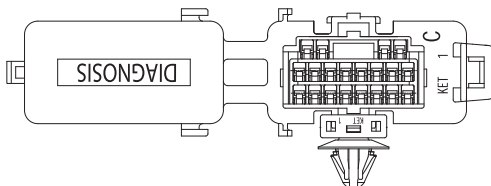


Key Hole Panel Dimensions

MG 653401



MG 653402



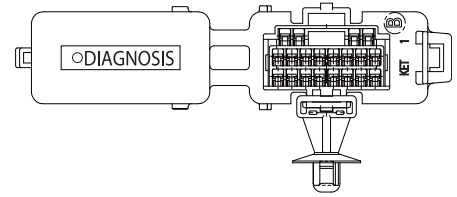
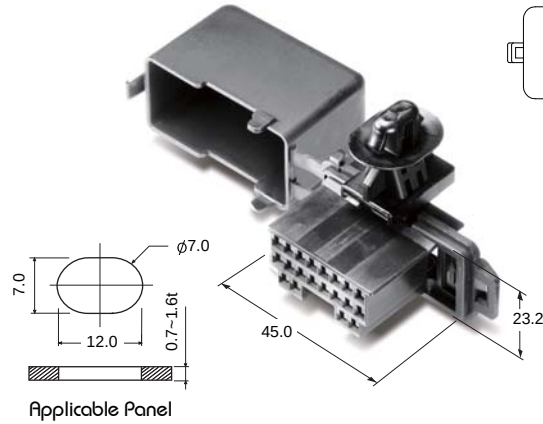
DIAGNOSIS CONNECTOR

DIAGNOSIS CONNECTOR

DIAGNOSIS 20F CLIP
(7.0X12.0 TYPE)



MG655707

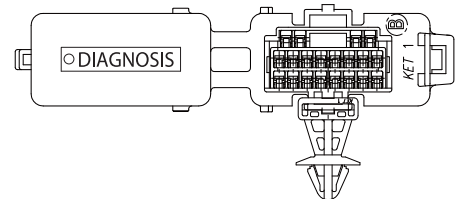
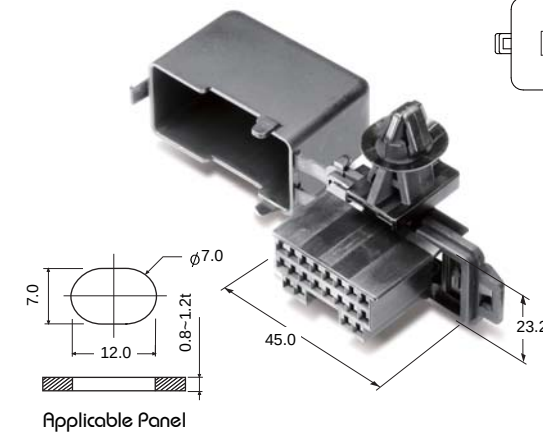


Suitable Terminal : ST730497, ST730498
Suitable Rear Holder : MG630414-7
Suitable Rear Cover : MG635624

DIAGNOSIS 20F CLIP
(7.0X12.0 TYPE)



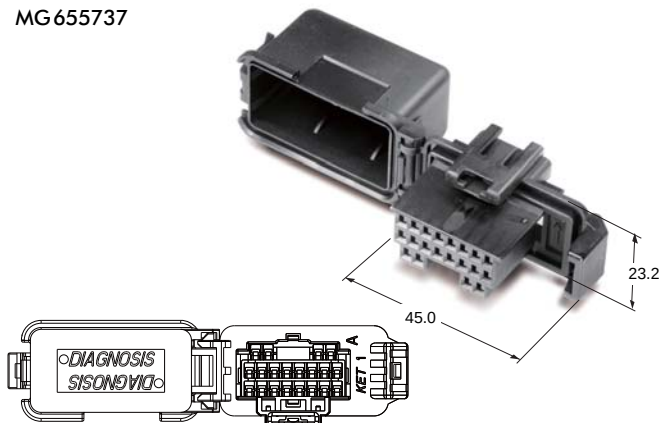
MG655676



Suitable Terminal : ST730497, ST730498
Suitable Rear Holder : MG630414-7
Suitable Rear Cover : MG632867

DIAGNOSIS 20F

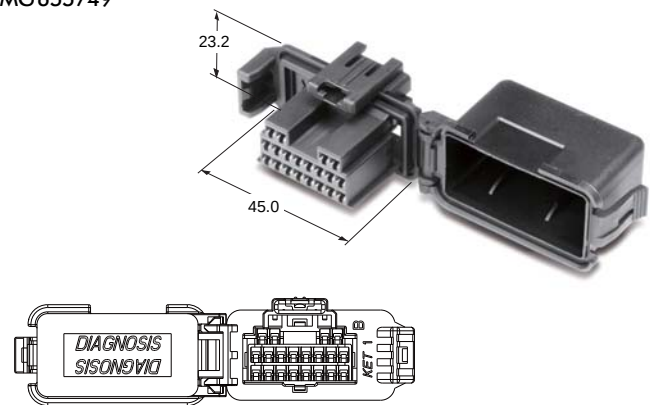
MG655737



Suitable Terminal : ST730497, ST730498
Suitable Rear Holder : MG630414-7
Suitable Rear Cover : MG635658-5

DIAGNOSIS 20F

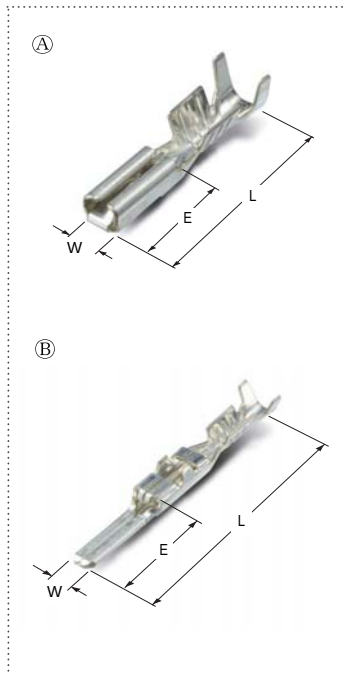
MG655749



Suitable Terminal : ST730497, ST730498
Suitable Rear Holder : MG630414-7
Suitable Rear Cover : MG635658-5

090 CONNECTOR(2.3mm)

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST730365-3	22-20	AVSS 0.3~0.5	0.64	0.25	Brass Pre-Tin	17.2	7.0	3.0	A
ST730366-3	18-16	AVSS 0.85~1.25	0.64	0.25	Brass Pre-Tin	17.2	7.0	3.0	
ST740367-3	22-20	AVSS 0.3~0.5	0.64	0.3	Brass Pre-Tin	26.7	9.5	2.3	B
ST740368-3	18-16	AVSS 0.85~1.25	0.64	0.3	Brass Pre-Tin	26.7	9.5	2.3	

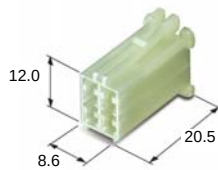
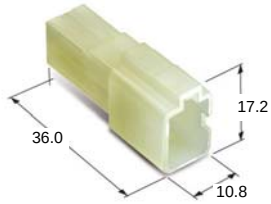
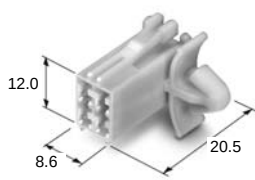
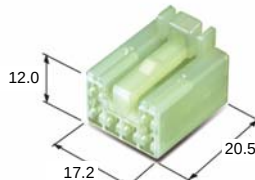
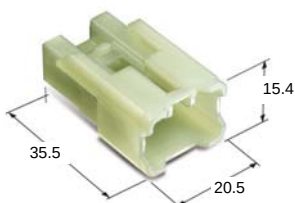
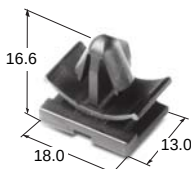
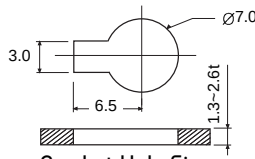
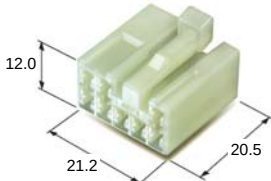
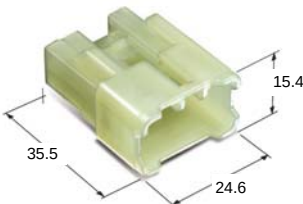
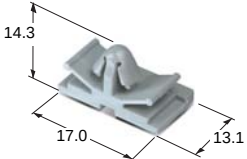
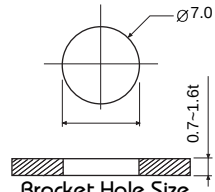
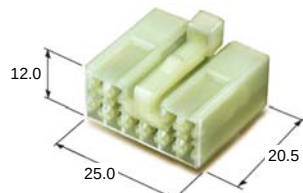
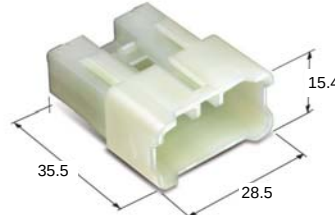
- Designed for low voltage miniaturized terminals.
- High Density and Reliability.
- Designed to provide excellent mating characteristics of terminal and housing lance to prevent false connection.

HOUSING

Poles	Plug housing for female terminal		Receptacle housing for male terminal
	MG 610070		MG 620074
2	MG 612861 	MG 615413 	
	MG 630679(P.B.T) 	MG 610489(P.B.T) 	MG 620490(P.B.T)

090 CONNECTOR(2.3mm)

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal	Clip
3	MG 610205 	MG 620206 	
4	MG 610159 	MG 620160 	
	MG 630680(P.B.T) 		
6	MG 610152 	MG 620153 	MG 635389 
			
8	MG 610054 	MG 620053 	MG 630459-4 
			
10	MG 610056 	MG 620055 	

090

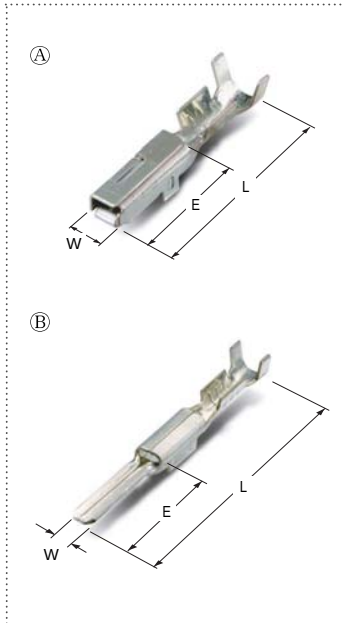
090 CONNECTOR(2.3mm)

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal	Clip
12	MG 610058 	MG 620057 	MG 635389
	MG 610121(.2509) 	MG 620122(.2509) 	MG 630459-4
14	MG 610071(.2509) 	MG 620072(.2509) 	
	MG 610062 	MG 620061 	MG 630460-4
18		MG 620834 	
	MG 610808 	MG 620809 	
20			

090II CONNECTOR

TERMINAL

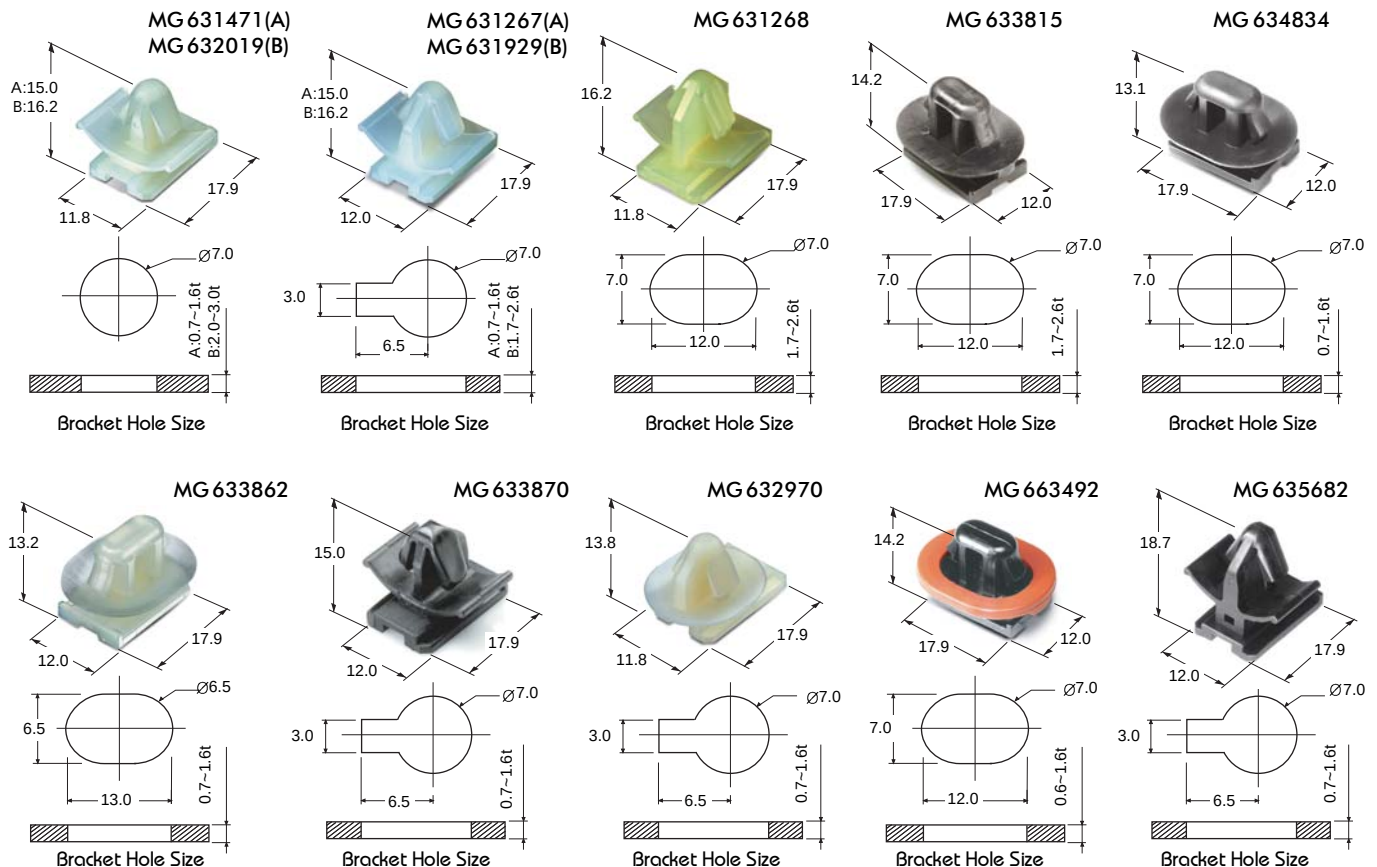


Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST731349-3	20-18	AVSS(CAVS) 0.5~0.85	0.64	0.25	Copper Alloy Pre-Tin	18.0	9.0	2.9	(A)
ST731100-3	24	CHFUS 0.22	0.64	0.25	Copper Alloy Pre-Tin	17.2	9.0	2.9	
ST730675-3	22-20	AVSS(CAVS) 0.3~0.5	0.64	0.25	Copper Alloy Pre-Tin	18.0	9.0	2.9	
ST730676-3	18-16	AVSS(CAVS) 0.85~1.25	0.64	0.25	Copper Alloy Pre-Tin	18.0	9.0	2.9	
ST730677-3	14	AVSS 2.0	0.64	0.25	Copper Alloy Pre-Tin	18.0	9.0	2.9	
ST741101-3	24	CHFUS 0.22	0.64	0.3	Brass Pre-Tin	27.0	10.3	2.3	(B)
ST740672-3	22-20	AVSS(CAVS) 0.3~0.5	0.64	0.3	Brass Pre-Tin	26.7	10.3	2.3	
ST740673-3	18-16	AVSS(CAVS) 0.85~1.25	0.64	0.3	Brass Pre-Tin	26.7	10.3	2.3	
ST740674-3	14	AVSS 2.0	0.64	0.3	Brass Pre-Tin	26.7	10.3	2.3	

090II CONNECTOR

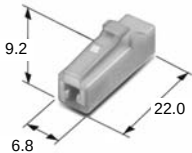
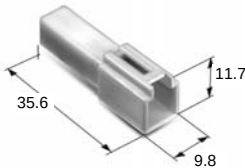
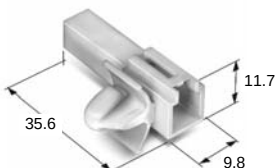
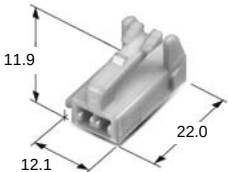
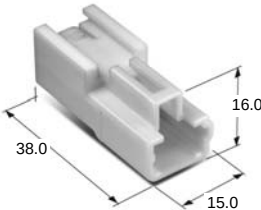
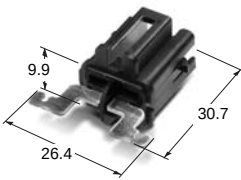
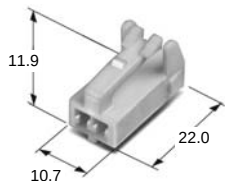
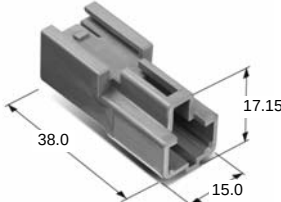
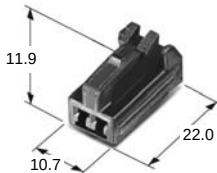
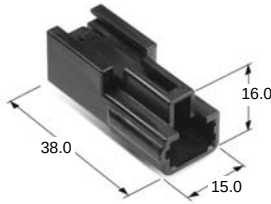
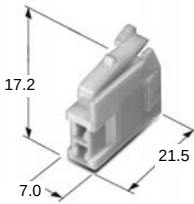
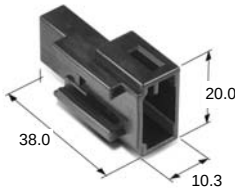
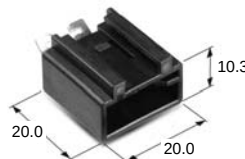
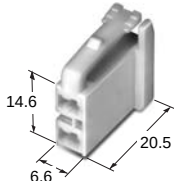
- ▶ Improved design from 090 size connector for higher reliability.
The blade width of male terminal for this connector is 0.090 inches.(Distinctive Features)
- ▶ Double locking system eliminates terminal push-out.(Housing Lance, Side Lock).
- ▶ Connector cannot be mated if preset terminal spacer is not in full-lock position.

CLIP



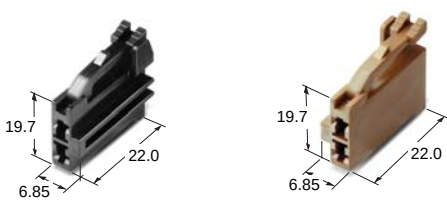
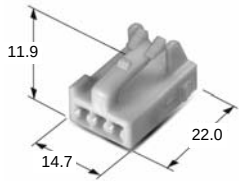
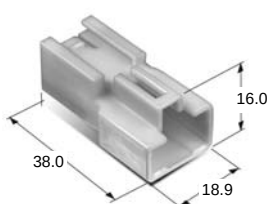
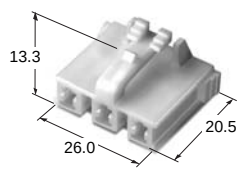
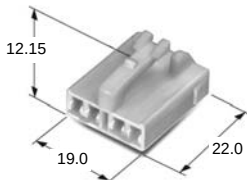
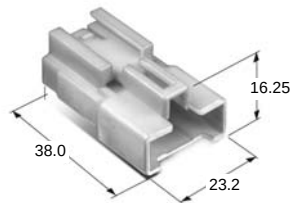
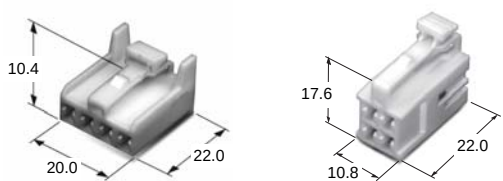
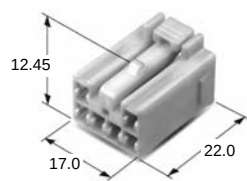
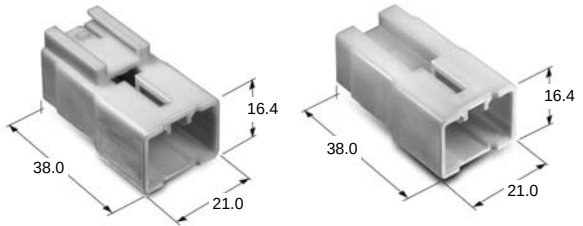
090II CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
1	MG 651194 	MG 641197  MG 641199 
	MG 651026 	MG 641029  MG 645098 
2	MG 651201-4 	MG 641203-4 
	MG 651205 	MG 641207 
	MG 651759 	MG 641762  MG 642383 
	MG 614147(Single Lock) 	

090II CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
2	MG 615094(LH) MG 615095-7(RH) 	
3	MG 651032 	MG 641035 
4	MG 615539 	
4	MG 651038 	MG 641041 
4	MG 613806(Single Lock) MG 655677 	
6	MG 651044 	MG 641047 MG 642449(Non Clip) 

11060

090II CONNECTOR

HOUSING

Poles	Plug housing for female terminal		Receptacle housing for male terminal	
	MG 611777	MG 613052-7(LH)	MG 613051-40(RH)	MG 631778-3
6	MG 613760(Single Lock) 			
	MG 614476 			
8	MG 651050 		MG 641053 	MG 642450(Non Clip)
	MG 651056(A Type) MG 655680-7(B Type) MG 655681-2(C Type) 		MG 641059(A Type) 	
10	MG 612845 		MG 632846-7 	

090II CONNECTOR

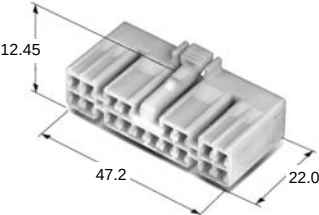
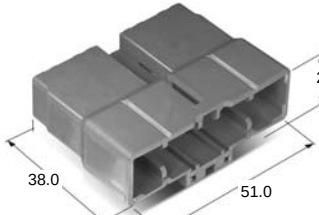
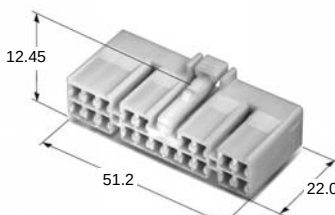
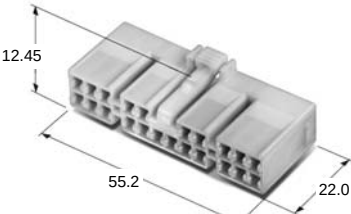
HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
10	MG 613349 MG 633350	
11	MG 651350	MG 641353
12	MG 651965	
14	MG 651127	
15	MG 651110	MG 641113
15	MG 651068	MG 641071

11060

090II CONNECTOR

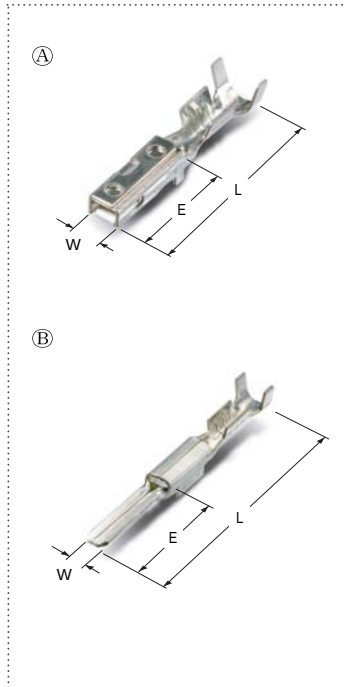
HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
18	MG 651074 	MG 641077 
20	MG 651080 	MG 641083 
22	MG 651086 	MG 641089 

ASC CONNECTOR

(Automotive Standard Connector)

TERMINAL

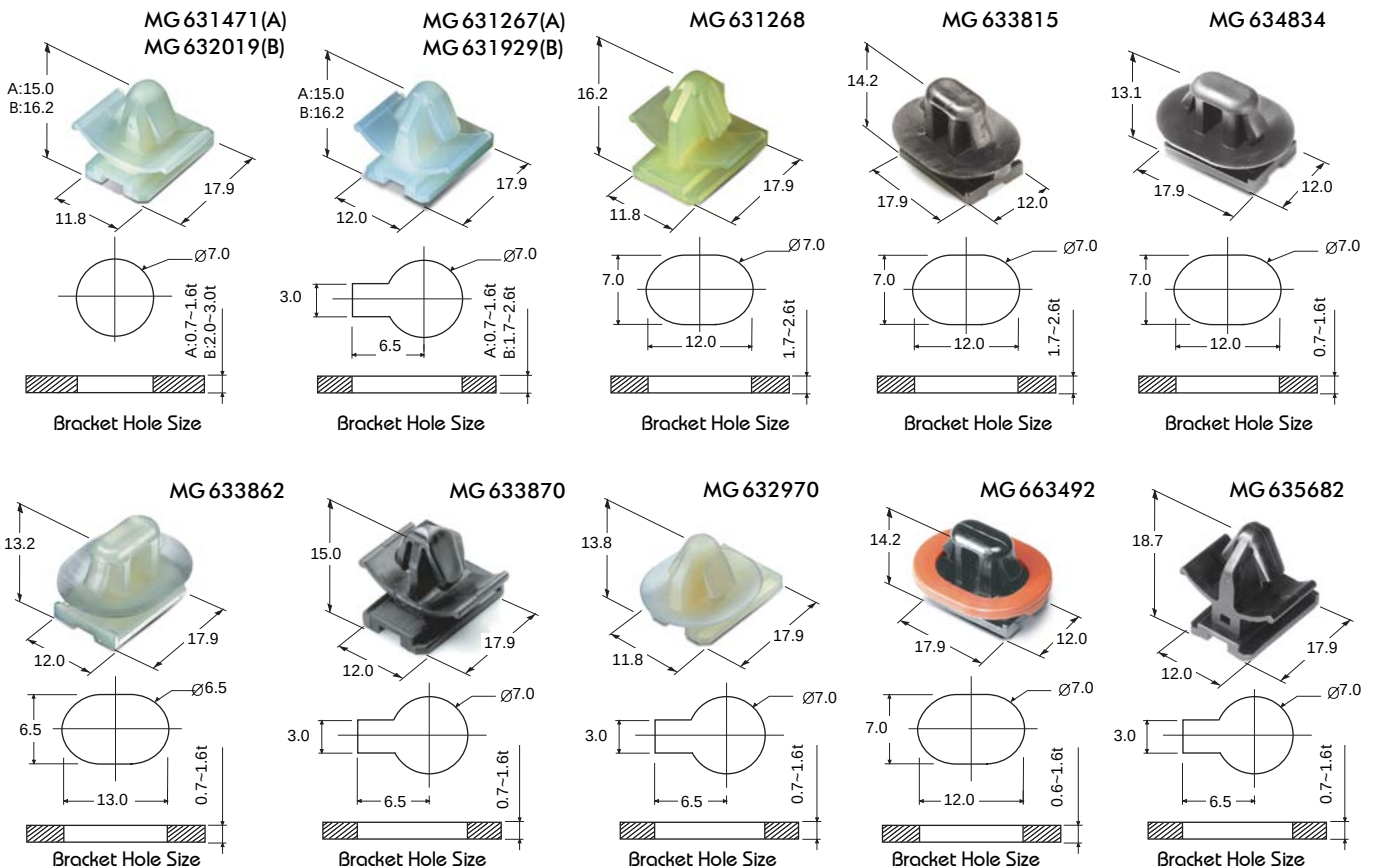


Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	Ε	W	
ST731102-3	24	CHFUS 0.22	0.64	0.25	Copper Alloy Pre-Tin	19.3	9.0	2.9	A
ST730775-3	22~20	AVSS(CAVS) 0.3~0.5	0.64	0.25	Copper Alloy Pre-Tin	19.0	9.0	2.9	
ST730776-3	18~16	AVSS(CAVS) 0.85~1.25	0.64	0.25	Copper Alloy Pre-Tin	19.0	9.0	2.9	
ST730777-3	14	AVSS 2.0	0.64	0.25	Copper Alloy Pre-Tin	19.0	9.0	2.9	
ST731158-3	12~10	AVSSXF 2.5	0.64	0.25	Copper Alloy Pre-Tin	19.0	9.0	2.9	B
ST741101-3	24	CHFUS 0.22 AVSS 0.22	0.64	0.3	Brass Pre-Tin	26.7	10.3	2.3	
ST740672-3	22~20	AVSS(CAVS) 0.3~0.5	0.64	0.3	Brass Pre-Tin	26.7	10.3	2.3	
ST740673-3	18~16	AVSS(CAVS) 0.85~1.25	0.64	0.3	Brass Pre-Tin	26.7	10.3	2.3	
ST740674-3	14	AVSS 2.0 AESSXF 2.5	0.64	0.3	Brass Pre-Tin	26.7	10.3	2.3	

ASC(Automotive Standard Connector)

- Improved design from 090 size for higher reliability.
- The blade width of male terminal for this connector is 0.090 inch.
- In spacer assembly, improving on sensing function to prevent terminal mis-insertion
- Improving on terminal retention force with perfect joint structure.
- Because of small size, it is easy to make module & block of front-control circuit.

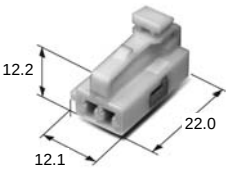
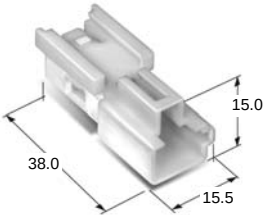
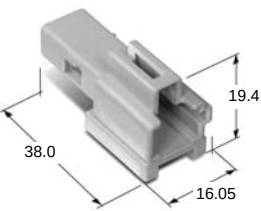
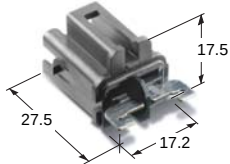
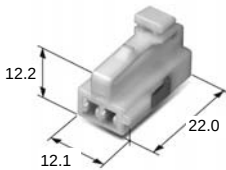
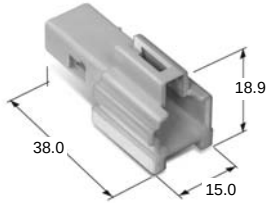
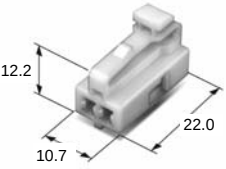
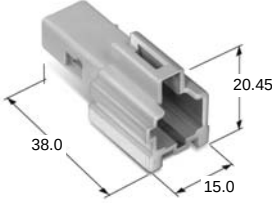
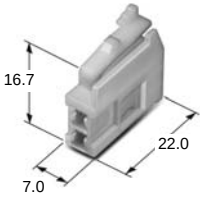
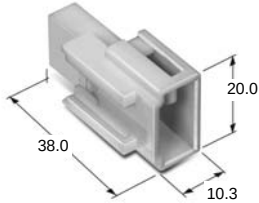
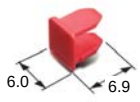
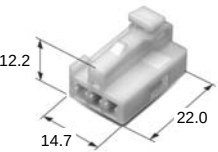
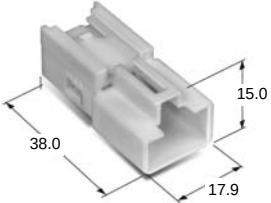
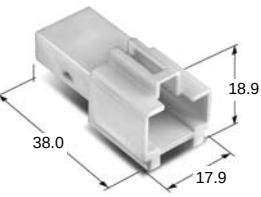
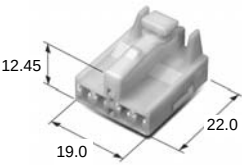
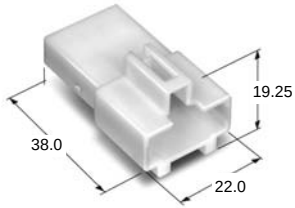
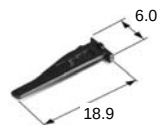
CLIP



ASC CONNECTOR

(Automotive Standard Connector)

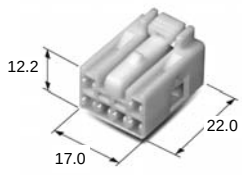
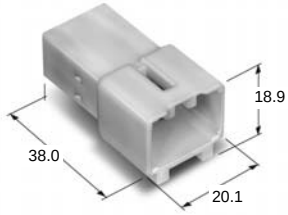
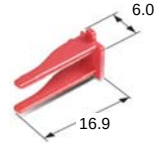
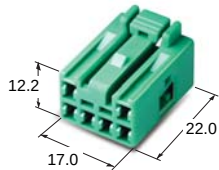
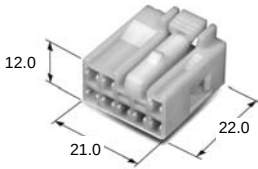
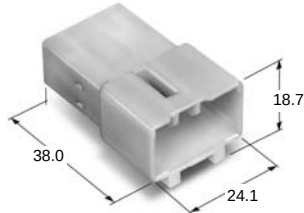
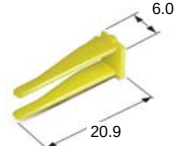
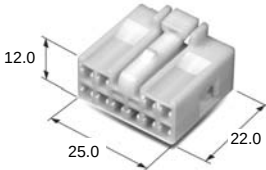
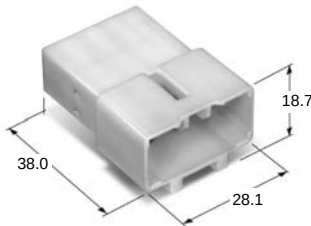
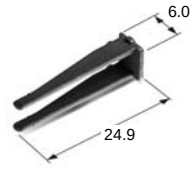
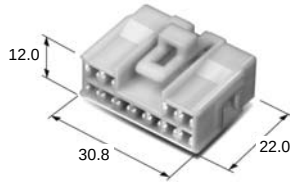
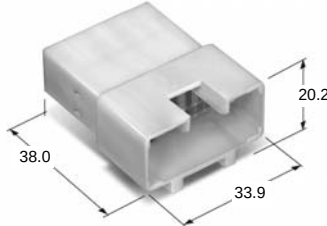
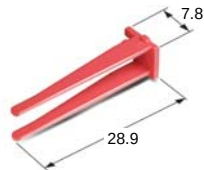
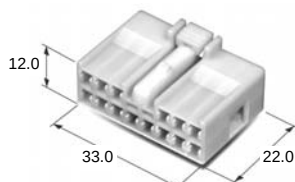
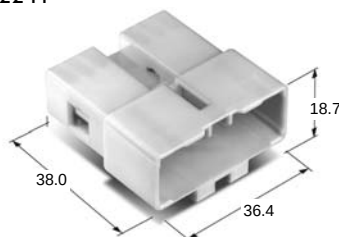
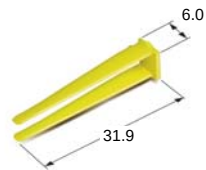
HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal		Spacer
2	MG 611857 	MG 621858 	MG 622937 	MG 643520 
	MG 612950 	MG 622951 		MG 631859-1 
	MG 612948 	MG 622949 		
	MG 612952 	MG 622953 		MG 632954-1 
3	MG 612034 	MG 622035 	MG 622938 	MG 632036-3 
	MG 612225 	MG 622226 		MG 632227 

ASC CONNECTOR

(Automotive Standard Connector)

HOUSING

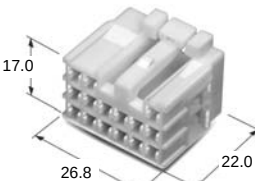
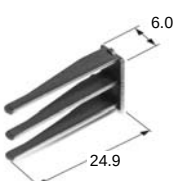
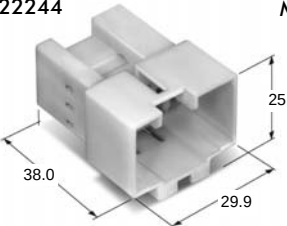
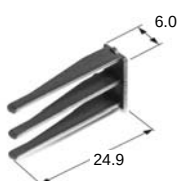
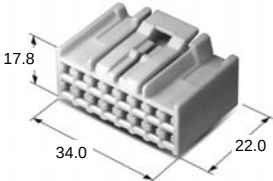
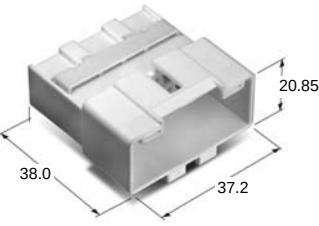
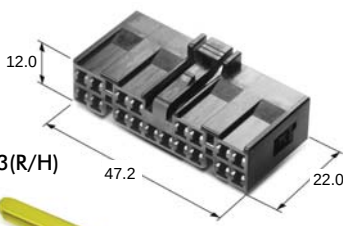
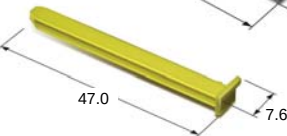
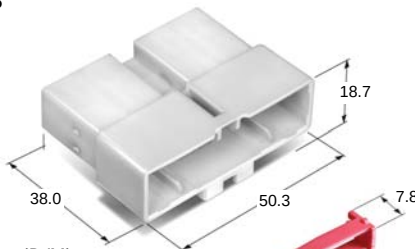
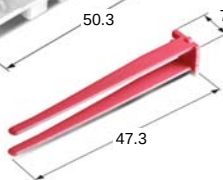
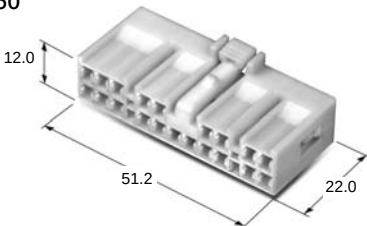
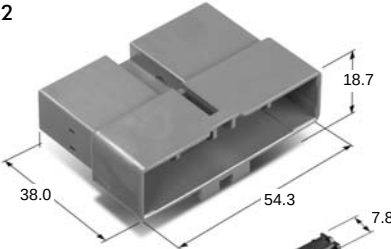
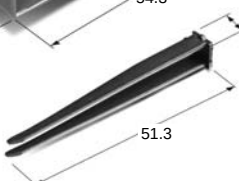
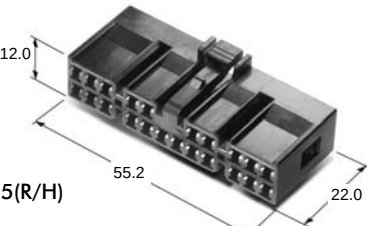
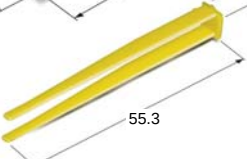
Poles	Plug housing for female terminal	Receptacle housing for male terminal	Spacer
6	MG612228 	MG622229 	MG632230-1 
	MG613991-6 		
8	MG612231 	MG622232 	MG632233-3 
	MG612234 	MG622235 	MG632236 
10	MG612237 	MG622238 	MG632239-1 
	MG612240 	MG622241 	MG632242-3 

ASC

ASC CONNECTOR

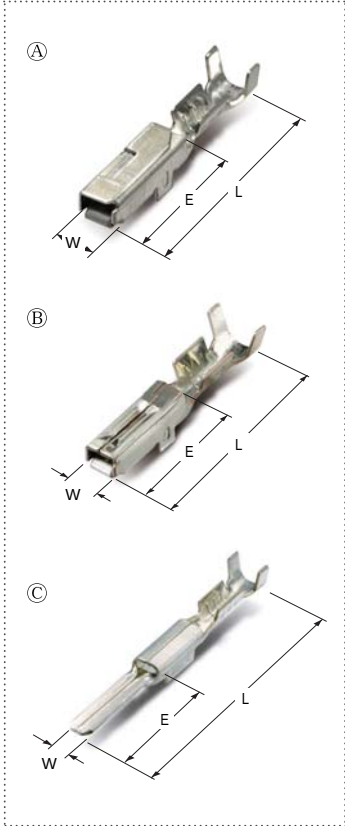
(Automotive Standard Connector)

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
15	MG 612243  MG 632245(R/H) 	MG 622244  MG 632245(R/H) 
16	MG 653198 	MG 643315 
18	MG 612246  MG 632247-3(R/H) 	MG 622248  MG 632249-1(R/H) 
20	MG 612250  MG 632251-1(R/H) 	MG 622252  MG 632253(R/H) 
22	MG 612254  MG 632255(R/H) 	MG 622256  MG 632257-3(R/H) 

090 DTC CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST731108-3	24	CHFUS 0.22 AVSS0.22	0.6	0.25	Brass Pre-Tin	18.0	9.0	2.9	A
ST731046-3	22-20	AVSS(CAVS) 0.3~0.5	0.6	0.25	Brass Pre-Tin	18.0	9.0	2.9	
ST731047-3	18-16	AVSS(CAVS) 0.85~1.25	0.6	0.25	Brass Pre-Tin	18.0	9.0	2.9	
ST731148-3	24	CHFUS 0.22	0.64	0.25	Copper-Alloy Pre-Tin	17.2	9.0	2.9	B
ST731149-3	22-20	AVS(CAVS) 0.3~0.5	0.64	0.25	Copper-Alloy Pre-Tin	18.0	9.0	2.9	
ST731150-3	18-16	AVS(CAVS) 0.85~1.25	0.64	0.25	Copper-Alloy Pre-Tin	18.0	9.0	2.9	
ST731151-3	14	AVSS 2.0	0.64	0.25	Copper-Alloy Pre-Tin	18.0	9.0	2.9	
ST741154-3	24	CHFUS 0.22	0.64	0.25	Brass Pre-Tin	27.0	10.3	2.3	C
ST741155-3	22-20	AVS(CAVS) 0.3~0.5	0.64	0.25	Brass Pre-Tin	26.7	10.3	2.3	
ST741156-3	18-16	AVS(CAVS) 0.85~1.25	0.64	0.25	Brass Pre-Tin	26.7	10.3	2.3	
ST741157-3	14	AVSS 2.0	0.64	0.25	Brass Pre-Tin	26.7	10.3	2.3	

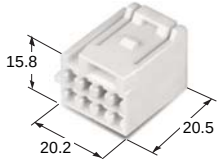
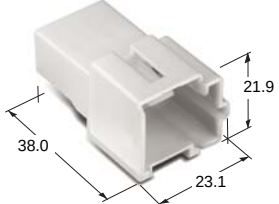
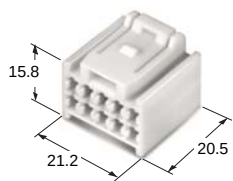
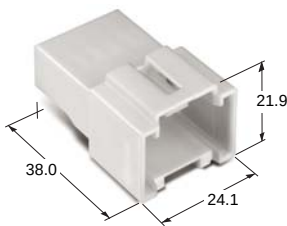
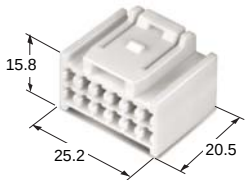
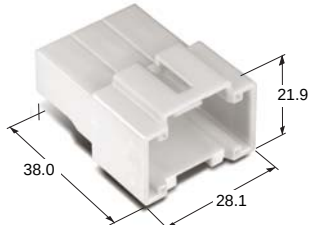
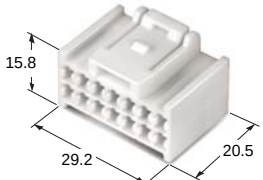
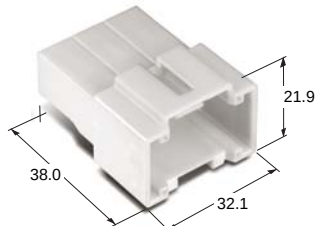
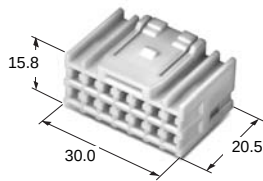
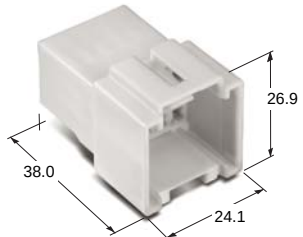
HOUSING

Suitable Clip: 090II Type

Poles	Plug housing for female terminal	Receptacle housing for male terminal
2	MG 614323 	MG 624324
4	MG 614325 	MG 624326
6	MG 614327 	MG 624328

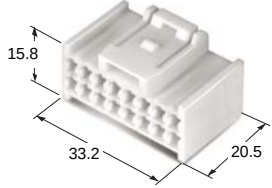
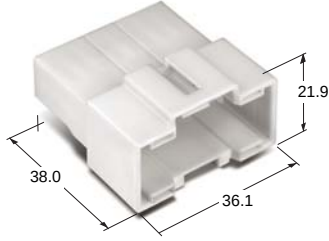
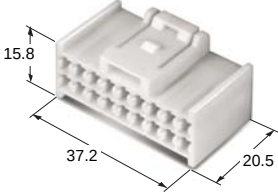
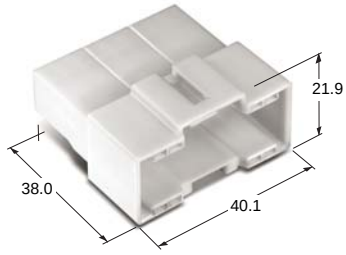
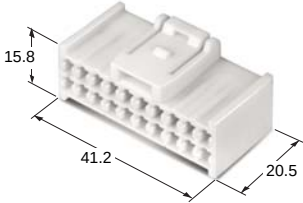
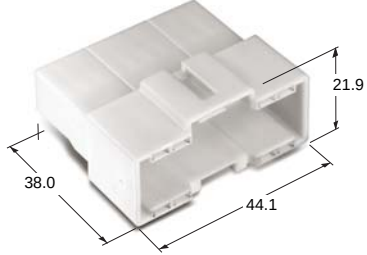
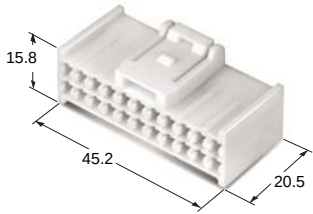
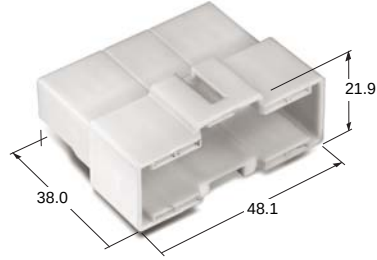
090 DTC CONNECTOR

HOUSING

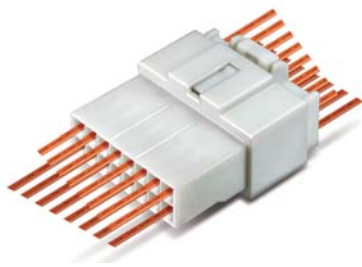
Poles	Plug housing for female terminal	Receptacle housing for male terminal
8	MG 614329	MG 624330
		
10	MG 614331	MG 624332
		
12	MG 614333	MG 624334
		
14	MG 614335	MG 624336
		
15	MG 654021	MG 624338
		

090 DTC CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
16	MG 614339 	MG 624340 
18	MG 613936 	MG 623937 
20	MG 614341 	MG 624342 
22	MG 614343 	MG 624344 

090 DTC

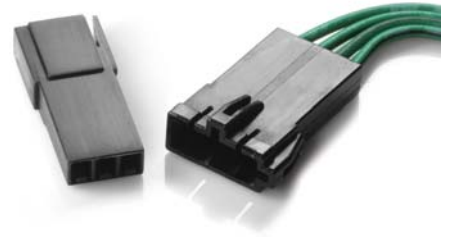


- ▶ 090 DTC is connector of 090 size designed with emphasis on cost. (Design to Cost)
- ▶ IT uses Single Terminal Locking System, but we assure terminal retention performance in a class with Double Terminal Locking System
- ▶ It's maximized emotional quality with consideration as to work in vehicle assembly line.

DIODE CONNECTOR

OBJECTIVES

- ▶ Protect electrical equipment from reverse current flow.
- ▶ Reduction in a number of wires in harness due to absorption of wiring joint into diode connector.
- ▶ Over current characteristics exceed melting characteristics of protection fuse in wiring harness.



SPECIFICATIONS

Maximum Rating (25° C)



Item	Symbol	(A)	(B)	Unit	Comment
Repetitive Peak Rever Voltage	V_{RM}	400	1000	V	
Non-Repetitive Peak Reverse Voltage	V_{RSM}	500	500	V	
Average Forward Current	I_o	1.5	-	A	$T_a=40^{\circ}C$
Surge Current	I_{FSM}	80	80	A	
Operating Ambient Temperature	T_a	-30~+80	-65+175	$^{\circ}C$	
Storage Temperature	T_{stg}	-30~+100	-65+175	$^{\circ}C$	

Electrical Characteristics (25° C)



Item	Symbol	(A)	(B)	Unit	Comment
Reverse Current	I_R	10 MAX	5 MAX	μA	A:DC400V B:DC1000V
Forward Voltage	V_F	1.0 MAX	1.1 MAX	V	DC1.5A

HOUSING

Poles	CONNECTOR(A)	Poles	CONNECTOR(B)
2	MG 620102	2	MG 621536
3	MG 620662	3 (KAK)	MG 621537
4	MG 620457	3 (AKA)	MG 621538

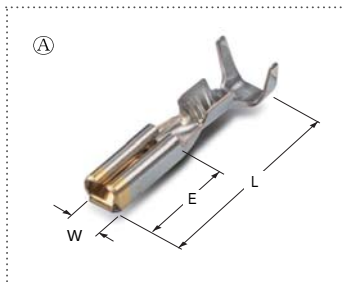
090 WP CONNECTOR

- ▶ Small-size waterproof connector designed for mid and low voltage parts in an automobile.
- ▶ Suitable for joint devices where waterproof is needed such as Thermo Sensor and Washer Motor.
- ▶ Improved waterproof function with the individual Waterproof Seal.
- ▶ Accommodates In-Line application in narrow space inside an automobile.



090 WP

TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST 730502-3	22-18	AVSS 0.3-0.85	0.64	0.25	Copper Alloy Pre-Tin	17.2	7.0	3.0	(A)
ST 730554-3	16-14	AVSS 1.25, AVSS 2.0	0.64	0.25	Copper Alloy Pre-Tin	17.2	7.0	3.0	
ST 730431-3	20	AVSS 0.5	0.64	0.25	Brass Pre-Tin	17.2	7.0	3.0	

WIRE SEAL

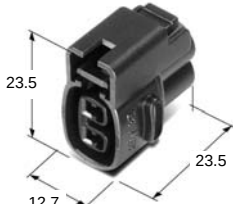
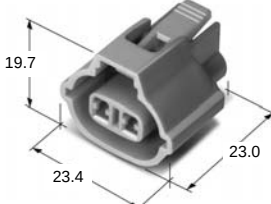
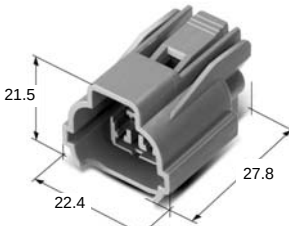
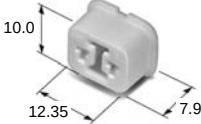
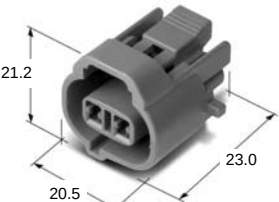
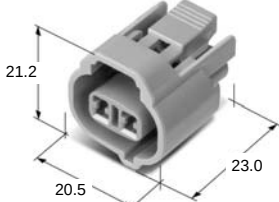
Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG 682507	AVSS 0.3	Silicone	Blue	5.8	Ø5.7	W/P
MG 680952	AVSS 0.5	Silicone	Red	5.8	Ø5.7	W/P
MG 680604	AVSS 0.85~1.25 CAVS 0.85	Silicone	Black	5.8	Ø5.7	W/P
MG 680749	AVS 1.25 AVSS 2.0	Silicone	Green	5.8	Ø5.7	W/P
MG 681117	AVSS 0.3-0.5	Silicone	Red	5.8	Ø4.8	T/S
MG 680494	AVSS 0.85~1.25	Silicone	Blue	5.8	Ø4.8	T/S
MG 681118	AVSS 2.0	Silicone	Black	5.8	Ø4.8	T/S

(B)

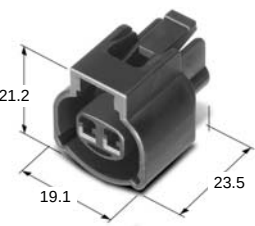
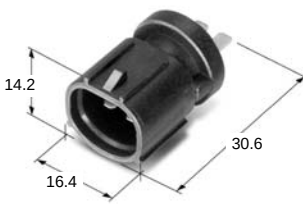


090 WP CONNECTOR

HOUSING

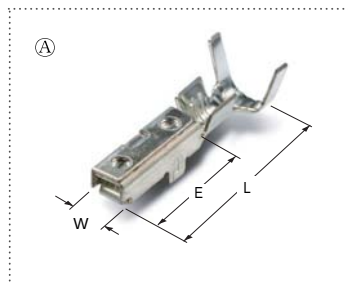
Poles	Receptacle housing for female terminal	
2	MG 640605	MG 640864
		
	MG 640795	MG 641156-4 MG 631157
		 
	MG 640849-4	MG 641719-7
		

THERMO SENSOR HOUSING

Receptacle housing for female terminal	
MG 640461	MG 650447
	
Suitable Terminal & Wire seal: ST 730502, MG 681117, MG 681118, MG 680494	

090 WP CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST730689-3	22-20	AVSS 0.3-0.5	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	A
ST730732-3	18-16	AVSS(CAVS) 0.85-1.25	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	
ST730739-3	16	AEXF 1.25	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	

WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG 680274	AEXF 0.85, AVSS 1.25	Silicone	Red	7.5	Ø4.8	B
MG 680275	AEXF 1.25, AVSS 2.0	Silicone	Green	7.5	Ø4.8	
MG 683935	AVSS 0.3~0.5	Silicone	Orange	7.5	Ø4.8	
MG 683695	Dummy Seal	Silicone	Black	6.2	Ø4.9	C

B



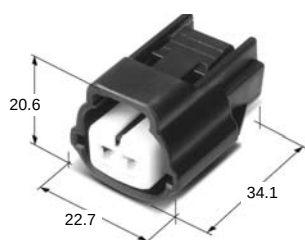
C



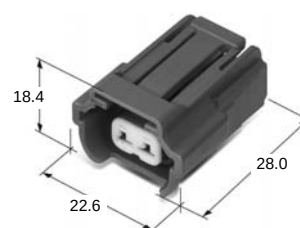
HORN / INJECTOR HOUSING

Receptacle housing for female terminal

MG 642267(HORN)

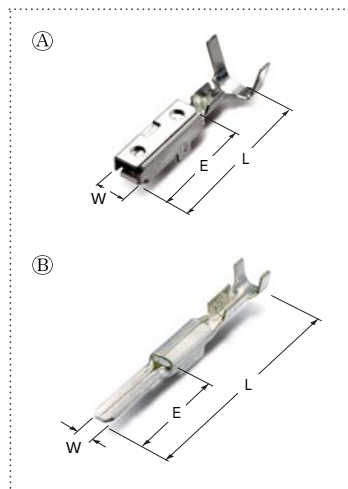


MG 641152-4(INJECTOR)



090II WP CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST730623-3	22~20	AVSS(CAVS) 0.3~0.5	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	A
ST730624-3	18~16	AVSS(CAVS) 0.85~1.25	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	
ST730625-3	14	AVSS 2.0	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	
ST740686-3	22~20	AVSS(CAVS) 0.3~0.5	0.64	0.3	Brass Pre-Tin	25.9	10.3	2.3	B
ST740687-3	18~16	AVSS(CAVS) 0.85~1.25	0.64	0.3	Brass Pre-Tin	25.9	10.3	2.3	
ST740688-3	14	AVSS 2.0	0.64	0.3	Brass Pre-Tin	25.9	10.3	2.3	

090II SEALED CONNECTOR

Improved design from 090 size sealed connector for higher reliability.

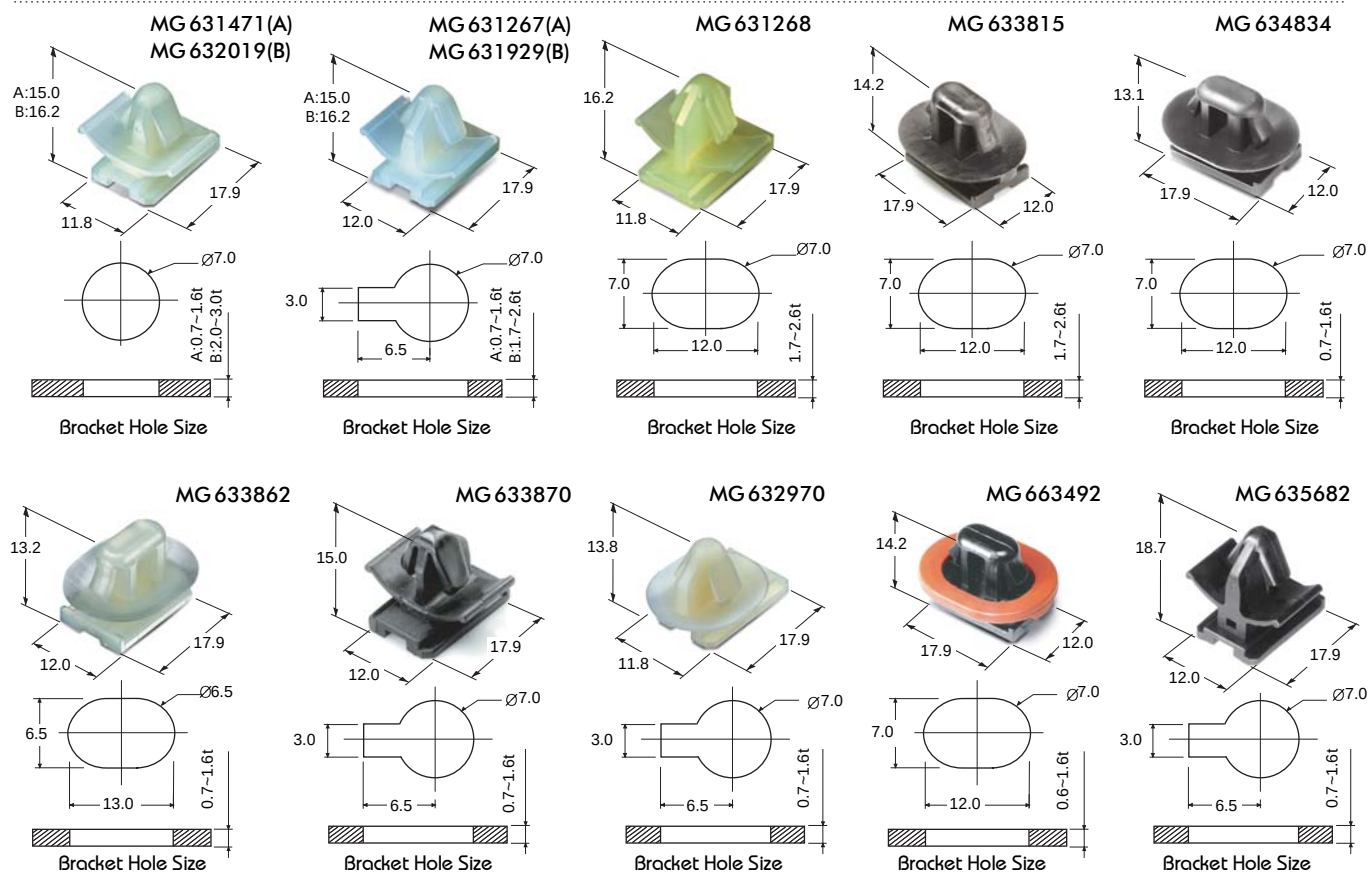
The blade width of male terminal for this connector is 0.090 inches.(Distinctive features)

1.Double locking system eliminates terminal push-out.
(Housing Lance, Side Lock).

2.Connector cannot be mated if preset terminal spacer is not in full-lock position.



CLIP



090II WP CONNECTOR

WIRE SEAL

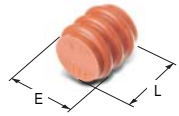


Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	Φ	
MG681114	AVSS 0.3~0.5	Silicone	Blue	6.80	Ø5.8	A
MG681115	AVSS 0.85~1.25	Silicone	Red	6.80	Ø5.8	
MG681116	AVSS 2.0	Silicone	Green	6.80	Ø5.8	
MG681119	AVSS 1.25 AEXF 0.85	Silicone	Black	6.80	Ø5.8	
MG682841	AVSS 1.25 AEXF 0.85	H-NBR	Gray	6.80	Ø5.8	B
MG681159	Dummy Seal	Silicone	Red	6.20	Ø5.9	

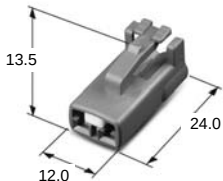
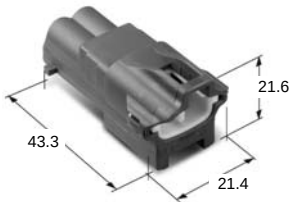
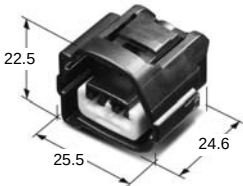
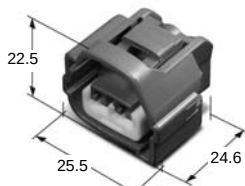
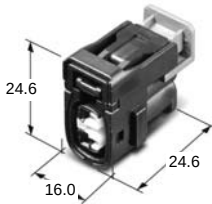
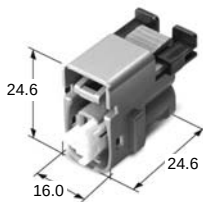
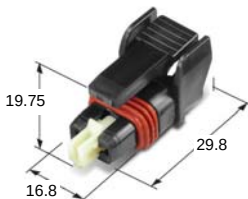
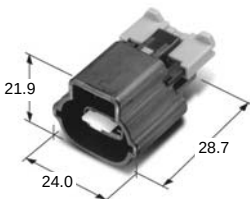
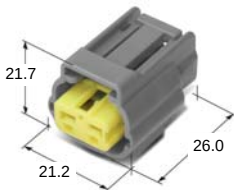
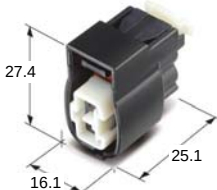
A



B



HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal			
2	MG 651092	MG 641221			
					
	Receptacle housing for female terminal				
	MG 641637(RH)	MG 641789-4(LH)	MG 642273(T/L, HPA)	MG 643477(T/L)	
					
	MG 653494	MG 643753	MG 641494-4	MG 643999	
					

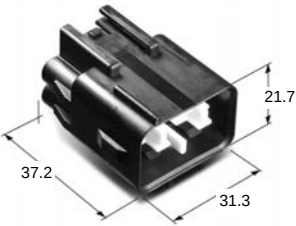
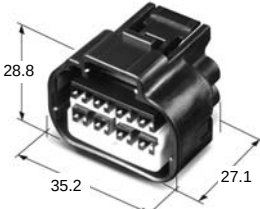
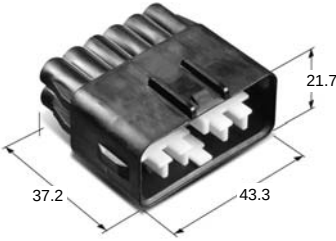
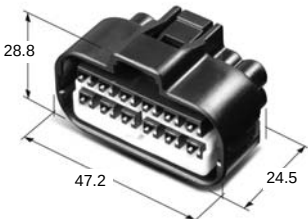
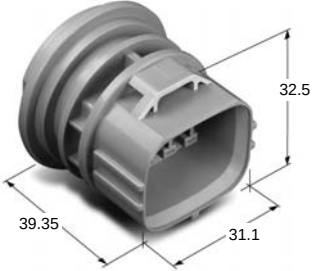
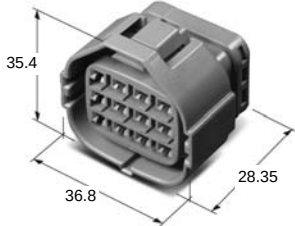
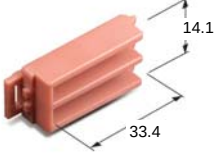
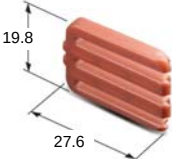
090II WP CONNECTOR

HOUSING

Poles		Receptacle housing for female terminal	
3	MG 641641	MG 642009	MG 643302(ALT)
	MG 644453	MG 644554-4	MG 645485
Plug housing for male terminal		Receptacle housing for female terminal	
4	MG 651359	MG 641362	
	MG 651098	MG 641101	
5		MG 641521-4	MG 640945
6	MG 651104	MG 641107	

090II WP CONNECTOR

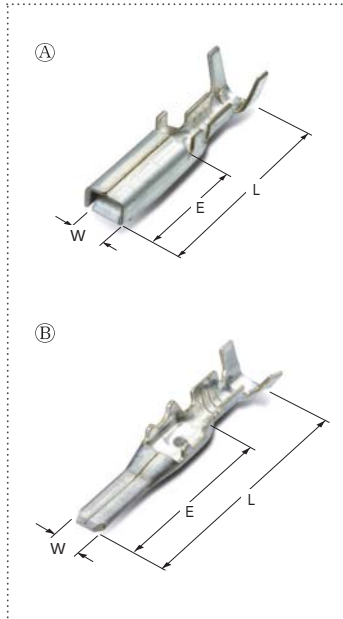
HOUSING

Poles	Plug housing for male terminal	Receptacle housing for female terminal
6		MG 643796 
8	MG 651308 	MG 641310 
		MG 642357 
	MG 651343 	MG 641340 
12	MG 612836-41(EUI)HPA 	MG 642840-41(EUI) 
	MG 632837-7  Suitable Terminal: ST740630-3, ST741190-3	MG 632839-7 

090II WP

110(58T) CONNECTOR

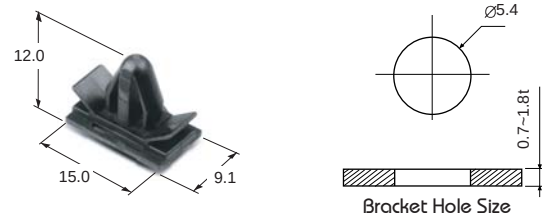
TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST730698-3	22-20	AVSS 0.3~0.5	0.8	0.4	Brass Pre-Tin	20.1	9.5	4.0	(A)
ST730699-3	18-14	AVSS 0.85~2.0	0.8	0.4	Brass Pre-Tin	20.1	9.5	4.0	
ST740700-3	22-20	AVSS 0.3~0.5	0.8	0.39	Brass Pre-Tin	22.6	9.9	2.8	(B)
ST740701-3	18-14	AVSS 0.85~2.0	0.8	0.39	Brass Pre-Tin	22.6	9.9	2.8	

CLIP

MG 631850



► The blade width of male terminal for this connector is 0.110 inch.

(Distinctive Features)

1. Double locking system eliminates terminal push-out.(Housing lance, Rear holder).
2. Stable/secure mating action between male and female connector.

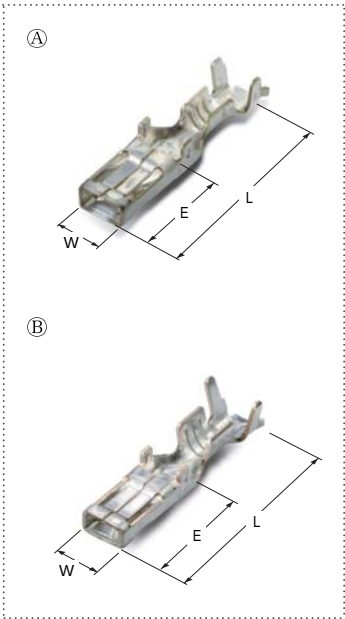
HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal	Rear Holder
1		MG 621384-7	
2	MG 611251	MG 621252 MG 621843	MG 631253-7
3		MG 621255	

110 D/L CONNECTOR

- ▶ Housing Locking Terminal
- ▶ The connects accept wire size 0.3~2.0mm² with insulation up to 3.4mm

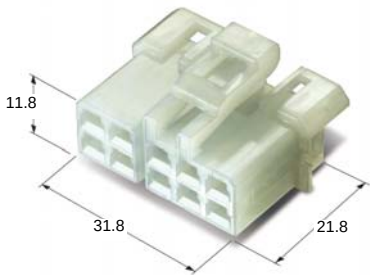
110 D/L TERMINAL



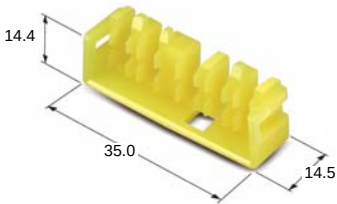
Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST730316-3	22-18	AVSS 0.3~0.85	0.65	0.3	Brass Pre-Tin	18.4	7.0	4.4	Ⓐ
ST730364-3	16-14	AVSS 1.25~2.0	0.65	0.3	Brass Pre-Tin	18.4	7.0	4.4	
ST730705-3	22-18	AVSS 0.3~0.85	0.65	0.3	Brass Pre-Tin	18.4	7.0	4.4	Ⓑ
ST730706-3	16-14	AVSS 1.25~2.0	0.65	0.3	Brass Pre-Tin	18.4	7.0	4.4	

110 D/L HOUSING

MG 630123 (10P)



MG 630124-3 (R/H)

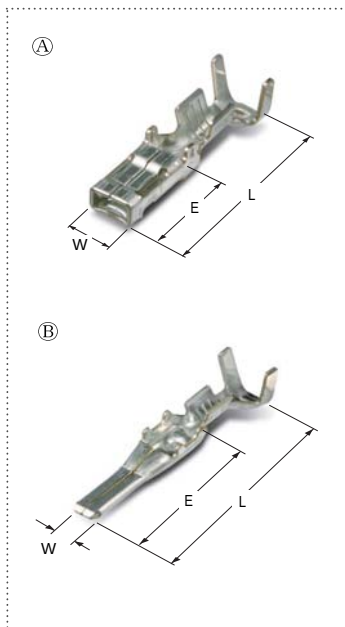


110 WP(58W) CONNECTOR



- ▶ Waterproof connector designed for high voltage application in an automobile.
- ▶ Suitable for Radiator Motor, ABS Relay, Modulator, etc.
- ▶ Double Locking system with Rear Holder.
- ▶ Intertidal locking mode ensures complete locking by using the inertia developed from jointing connectors.
- ▶ Significant improvement in waterproof function with Individual Wire Seal.
- ▶ Small size, waterproof, high density connector designed for the electronic devices equipped in a automobile.
- ▶ High density and remarkable reliability with 3mm pitch.

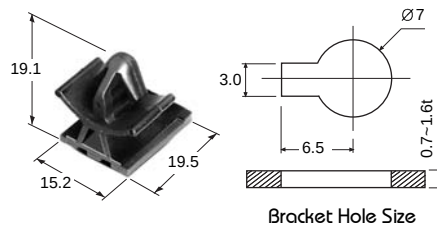
TERMINAL



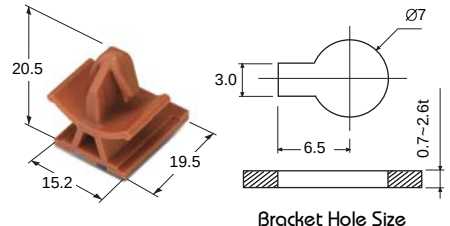
Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST730524-3	22-18	AVSS 0.3~0.85	0.8	0.4	Copper Alloy Pre-Tin	19.0	6.7	4.4	A
ST730525-3	16-14	AVSS 1.25~2.0	0.8	0.4	Copper Alloy Pre-Tin	19.0	6.7	4.4	
ST740530-3	22-18	AVSS 0.3~0.85	0.8	0.4	Brass Pre-Tin	23.85	14.4	2.8	B
ST740531-3	16-14	AVSS 1.25~2.0	0.8	0.4	Brass Pre-Tin	23.85	14.4	2.8	

CLIP

MG630521



MG635541-7



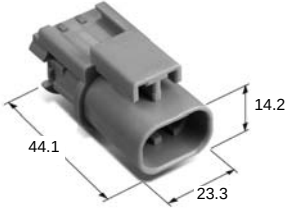
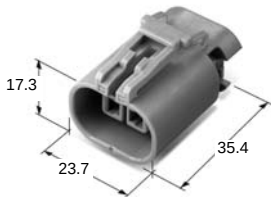
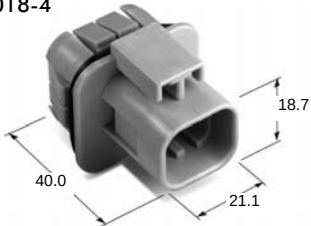
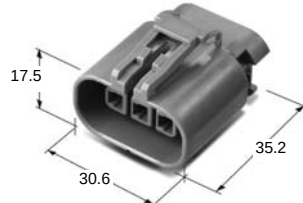
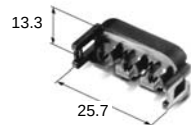
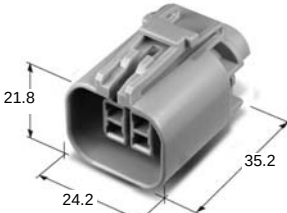
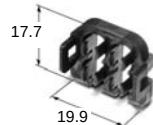
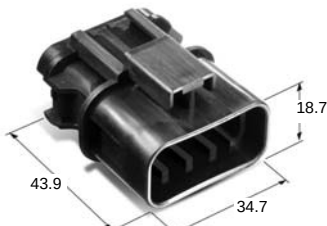
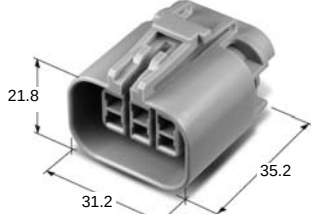
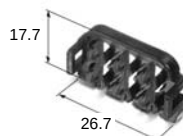
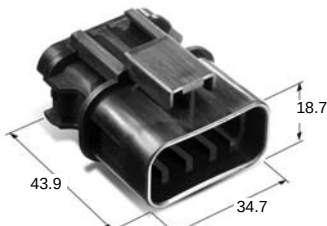
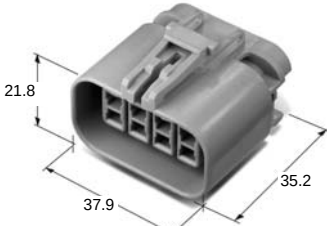
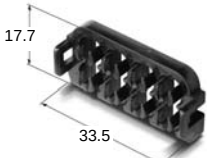
WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG680470	AV 0.5, AVS 0.85, AVSS 0.85~1.25, CAVS 1.25	Silicone	Red	7.4	Ø6.5	C
MG685028	AV 0.5, AVS 0.85, AVSS 0.85~1.25, CAVS 1.25	Silicone	Grey	7.4	Ø6.5	
MG680564	AVS 1.25~2.0, AVSS 2.0, AVX 1.25~2.0	Silicone	Blue	7.4	Ø6.5	
MG680522	AVS 0.3, AVSS 0.5	Silicone	Green	7.4	Ø6.5	
MG685027	AVS 0.3, AVSS 0.5	Silicone	Blue	7.4	Ø6.5	
MG685197	AVSS 0.3, AEXF 0.3	Silicone	Black	7.4	Ø6.5	
MG680905	Dummy Seal	Silicone	Red	10.0	Ø7.0	D



110 WP(58W) CONNECTOR

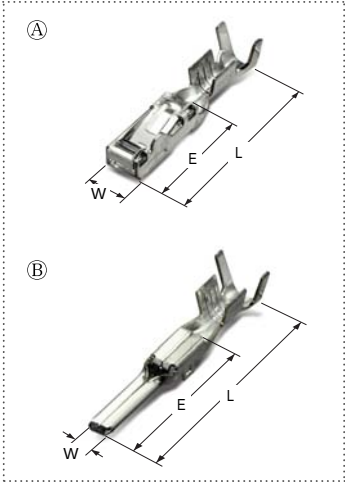
HOUSING

Poles	Plug housing for male terminal	Receptacle housing for female terminal	Rear Holder
2	MG 610499-4 	MG 640501-4 	MG 630505 
3	MG 651018-4 	MG 641263-4 	MG 630508 
4	MG 610513-4 	MG 640511-4 	MG 630512 
6	MG 610517-4 	MG 640515-4 	MG 630516 
8	MG 610517-4 	MG 640519-4 	MG 630520 

110 WP(58W)

110(280) CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST731279-3	22-20	AVSS 0.3~0.5	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0	A
ST731280-3	18-16	AVSS 0.85~1.25	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0	
ST731281-3	14-12	AVSS 2.0 AVSS 3.0	0.8	0.32	Copper Alloy Pre-Tin	20.0	9.5	4.0	
ST741285-3	22-20	AVSS 0.3~0.5	0.8	0.32	Brass Pre-Tin	27.3	17.5	3.8	B
ST741286-3	18-16	AVSS 0.85~1.25	0.8	0.32	Brass Pre-Tin	27.3	17.5	3.8	
ST741287-3	14-12	AVSS 2.0 AVSS 3.0	0.8	0.32	Brass Pre-Tin	27.3	17.5	3.8	

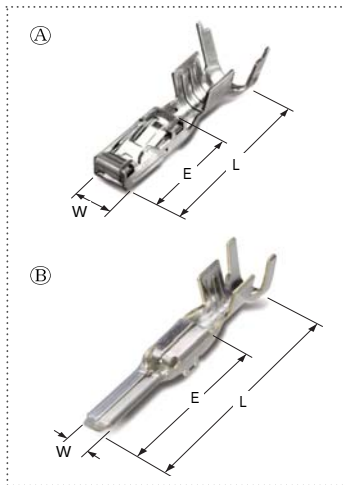
HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
4	MG 615171 (Single Lock)	
	MG 655778-11 (A) (Double Lock)	
	MG 655779-11 (B) (Double Lock)	
	MG 655786-11 (C) (Double Lock)	

110(280) WP CONNECTOR

- ▶ The blade width of male terminal for this connector is 2.80mm
- ▶ Double locking system eliminates terminal push-out (Housing lance, Rear holder)
- ▶ Stable/secure mating action between male and female connector
- ▶ Waterproof connector designed for high voltage application in automobile
- ▶ Significant improvement in waterproof function with use of individual wire seal

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST731152-3	16-14	AEXF 1.25~2.0 AVSSXF 2.0~2.5	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0	A
ST731153-3	20-18	AEXF 0.5~0.85	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0	
ST741288-3	20	AEXF 0.5	0.8	0.39	Brass Pre-Tin	27.6	17.5	2.8	B
ST741289-3	18-16	AEXF 0.85~1.25	0.8	0.39	Brass Pre-Tin	27.6	17.5	2.8	
ST741290-3	14	AEXF 2.0 AVSSXF 2.5	0.8	0.39	Brass Pre-Tin	27.6	17.5	2.8	

WIRE SEAL

Part No.	Wire Range mm ²		Material	Color	Dimension(mm)		Type
					L	€	
MG 680470	AVSS 0.85~1.25	CAVS 1.25	Silicone	Red	7.4	Ø6.5	C
MG 680564	AVSS 2.0	AVS 1.25~2.0	Silicone	Blue	7.4	Ø6.5	

©



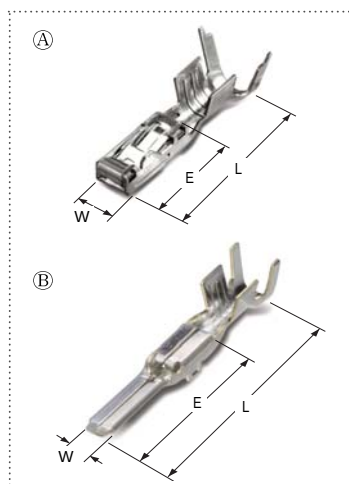
HOUSING

Poles	Receptacle housing for male terminal	Plug housing for female terminal	Rear Holder
	MG 625435	MG 655698	MG 635627
1	Suitable Wire seal: MG 680470, MG 680564		

110(280) WP CONNECTOR

- The blade width of male terminal for this connector is 2.80mm
- Double locking system eliminates terminal push-out (Housing lance, Rear holder)
- Stable/secure mating action between male and female connector
- Waterproof connector designed for high voltage application in automobile
- Significant improvement in waterproof function with use of individual wire seal

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST731152-3	16-14	AEXF 1.25~2.0 AVSSXF 2.0~2.5	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0	A
ST731153-3	20-18	AEXF 0.5~0.85	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0	
ST741288-3	20	AEXF 0.5	0.8	0.39	Brass Pre-Tin	27.6	17.5	2.8	B
ST741289-3	18-16	AEXF 0.85~1.25	0.8	0.39	Brass Pre-Tin	27.6	17.5	2.8	
ST741290-3	14	AEXF 2.0 AVSSXF 2.5	0.8	0.39	Brass Pre-Tin	27.6	17.5	2.8	

WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		
				L	E	
MG685400	AEXF 0.5~0.85	Silicone	Blue	7.5	Ø6.1	C
MG685401	AEXF 1.25 AESSXF 2.0	Silicone	Red	7.5	Ø6.1	

C



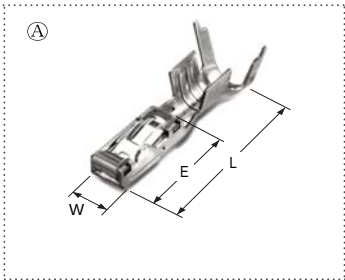
HOUSING

Poles	Receptacle housing for male terminal	Plug housing for female terminal	Rear Holder
6		MG645744 (110 3P+060 3P)	

110(280) WP CONNECTOR

- ▶ The blade width of male terminal for this connector is 2.80mm
- ▶ Double locking system eliminates terminal push-out (Housing lance, Rear holder)
- ▶ Stable/secure mating action between male and female connector
- ▶ Waterproof connector designed for high voltage application in automobile
- ▶ Significant improvement in waterproof function with use of individual wire seal

◉ TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST731152-3	16-14	AEXF 1.25~2.0 AVSSXF 2.0~2.5	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0	Ⓐ
ST731153-3	20-18	AEXF 0.5~0.85	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0	
ST731282-3	20	AEXF 2.0 AVSSXF 2.5	0.8	0.32	Brass Pre-Tin	20.0	9.5	4.0	

◉ WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG 685484	AEXF 2.0 AVSEXF 2.5	Silicone	Gray	7.4	Ø6.5	Ⓑ
MG 685227	AEXF 3.0	Silicone	Yellow	7.4	Ø6.5	

Ⓑ

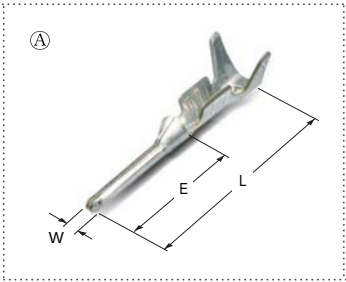


◉ HOUSING

Poles	Receptacle housing for male terminal	Rear Holder
2	MG 654469 Suitable Wire seal: MG 680470, MG 680564, MG 685484, MG 685227	MG 634471-2

TLC CONNECTOR

☛ TERMINAL



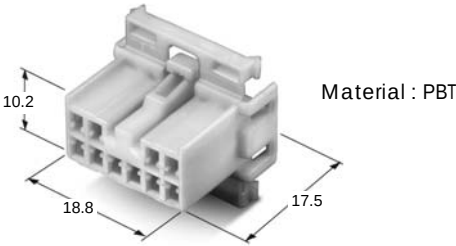
Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST750402-3	22-20	AVSS 0.3~0.5	Ø1.0	0.25	Brass Pre-Tin	16.5	9.0	1.0	Ⓐ

☛ ØI.O HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal	Housing for wire seal
3	MG 610088 Suitable Terminal: 7115-1591(YZK)	MG 640187	MG 680157 MG 680538(Dummy Seal)
		MG 640186	

☛ ØI.O AE HOUSING(IOP)

MG 610126

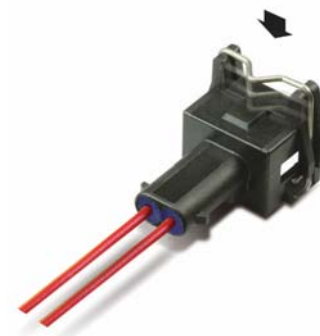


Suitable for electronic parts used in automotive appliances.

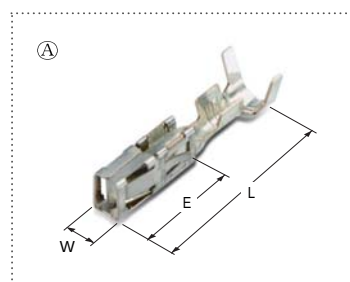
ESC CONNECTOR

ESC(Engine Standard Connector)

- ▶Excellent water-proof function with individual waterproof seal structure.
- ▶Using special double lock device with spring lock structure.
- ▶2.8mm Tab size of 5.0 pitch.
- ▶Engine control circuit connector with improved design in terminal contact area.
- ▶Two-piece terminal design combining high durability and conductive materials to form more reliable contact area.



TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST730904-3	22-20	AVSS 0.3-0.5	0.8	0.3	Copper-Alloy Pre-Tin	19.85	10.0	3.0	(A)
ST730905-3	18-16	AVSS 0.85-1.25	0.8	0.3	Copper-Alloy Pre-Tin	19.85	10.0	3.0	
ST730906-3	16-14	AVSS 1.25-2.0	0.8	0.3	Copper-Alloy Pre-Tin	19.85	10.0	3.0	

WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG682212	AVSS 0.3-0.5	Silicone	Black	10.0	Ø5.7	(B)
MG682213	AVSS 0.85-1.25	Silicone	Blue	10.0	Ø5.7	
MG682214	AVSS 1.25-2.0	Silicone	Red	10.0	Ø5.7	

(B)



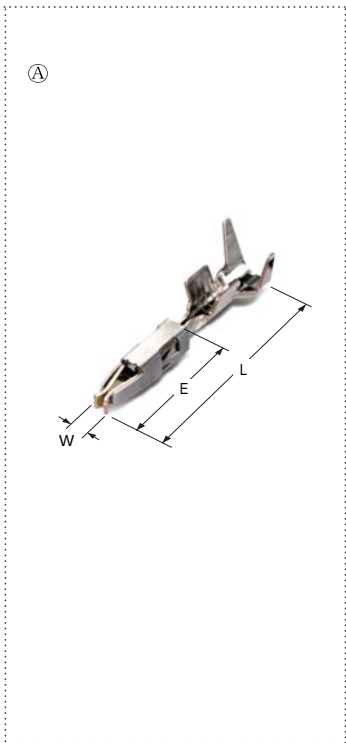
HOUSING

Poles	Receptacle housing for female terminal
MG642211	
2	

150 WP CONNECTOR(INJECTOR)

- ▶Waterproof Connector with Tab Size 1.50mm.
- ▶Double locking system eliminates terminal push-out (Housing lance, TPA)
- ▶Stable/secure mating action between male and female connector

TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST731168-G	17	C3ZH 1.0	0.6	0.3	Copper-Alloy Au	19.2	9.4	2.15	

WIRE SEAL

Part No.	Wire Range	Material	Color	Dimension(mm)		Type
	mm ²			L	€	
MG684683	C3ZH 1.0	Silicone	Green	7.5	Ø4.3	



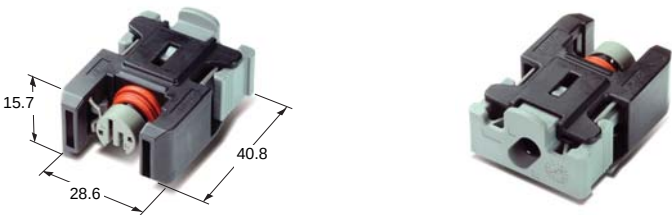
HOUSING

Poles

Plug housing for female terminal

MG 644638

2



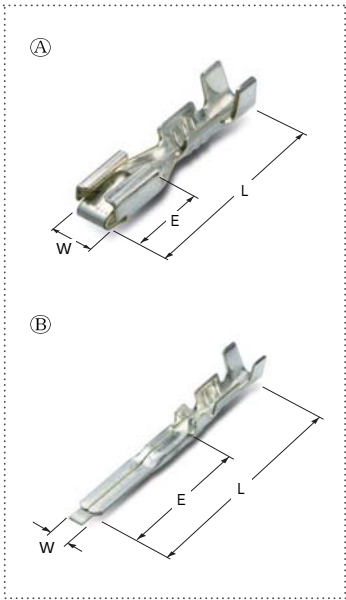
118(PA) CONNECTOR



WITH LANCE HOUSING LOCKING TERMINAL

- Specially designed for circuits in low voltage applications. These connectors are suitable for miniaturization, high density and reliability.
- Easy insertion and extraction permit easy matching and unmatching of connector assemblies.
- These connectors consist of Plug Housing and Receptacle Housing for multiple-pole connection.
- Designed to prevent false-connection and to maintain stable connection under vibration and extreme environmental conditions.

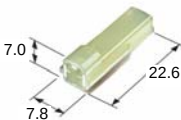
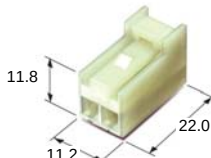
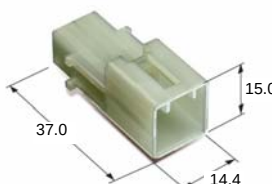
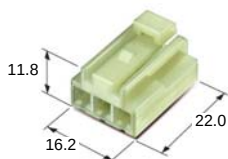
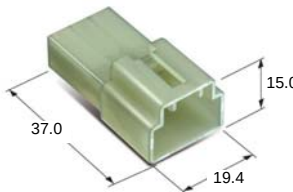
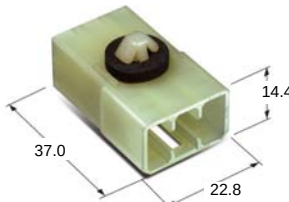
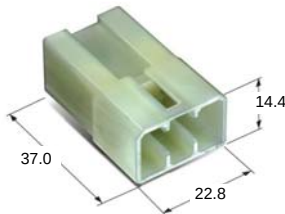
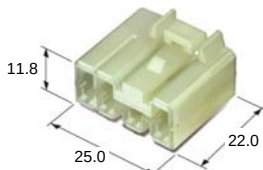
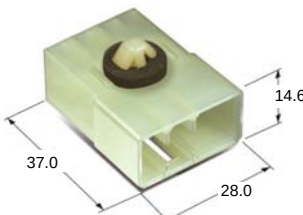
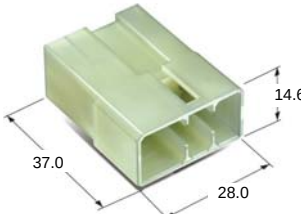
TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST730383-3	24-20	AVSS 0.2~0.5	0.64	0.4	Brass Pre-Tin	17.6	5.6	4.1	Ⓐ
ST730186-3	18-14	AVSS 0.85~2.27	0.64	0.4	Brass Pre-Tin	17.6	5.6	4.1	
ST730192-3	14-13	AVSS 2.0 AVSS 2.5	0.64	0.4	Brass Pre-Tin	17.6	5.6	4.1	
ST740393-3	24-20	AVSS 0.2~0.5	0.64	0.3	Brass Pre-Tin	28.0	15.0	3.0	Ⓑ
ST740315-3	20-18	AVSS 0.5~0.85	0.64	0.3	Brass Pre-Tin	28.0	15.0	3.0	
ST740187-3	18-14	AVSS 0.85~2.27	0.64	0.3	Brass Pre-Tin	28.0	15.0	3.0	
ST740193-3	14-13	AVSS 2.0 AVS 2.5	0.64	0.3	Brass Pre-Tin	28.0	15.0	3.0	

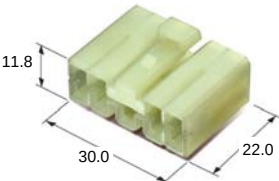
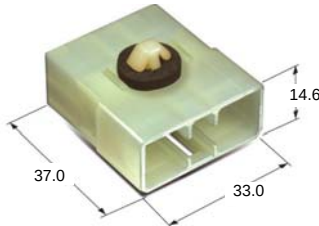
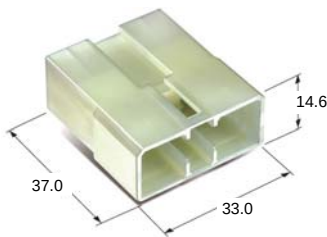
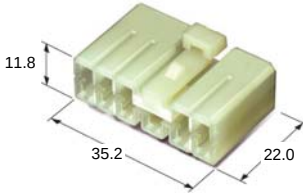
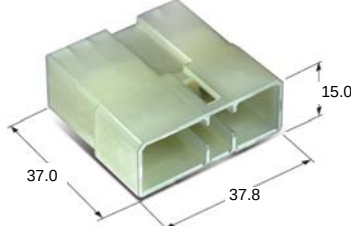
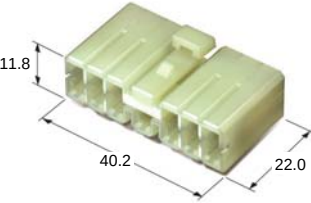
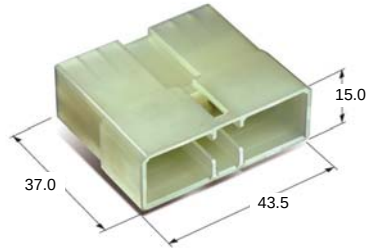
118(PA) CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
1	MG 610089 	MG 620090 
2	MG 610207 	MG 620208 
3	MG 610209 	MG 620210 
5	MG 610189 	MG 640185  MG 620211 
7	MG 610203 	MG 620204  MG 620212 

118(PA) CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal	
	MG 610154	MG 620155	MG 620213
9			
11	MG 610214	MG 620215	
			
13	MG 610216	MG 620217	
			

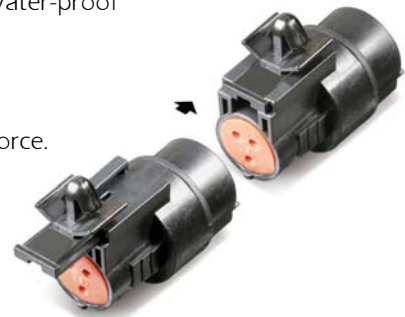
118(PA)

BS CONNECTOR

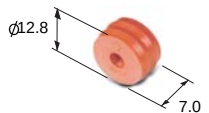
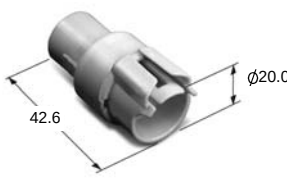
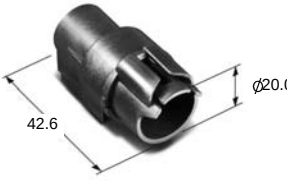
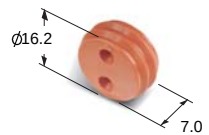
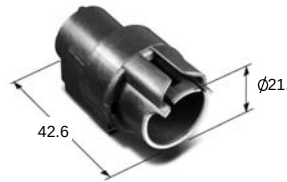
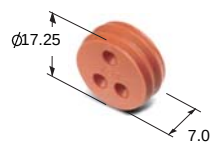
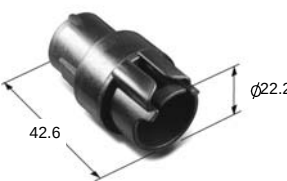
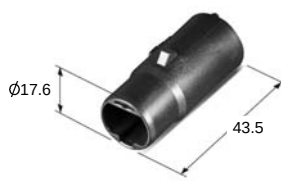
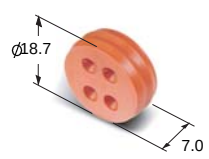
BS CLIP HOUSING

THE CLIP IS MOUNTED ON FEMALE HOUSING ONLY.

- Pre-sealed connectors are ideal for waterproof automotive circuit applications.
- BS connectors for 3mm receptacle and tab terminals are easy to handle and water-proof
- Specially designed O-Ring in the receptacle housing.
- Wire seal material is silicone rubber. The housings are compounded with PBT-GLASS, and are waterproof.
- These two parts, male and female connectors couple with minimal assembly force. The built-in locking device assures firm water and dust proof connection.

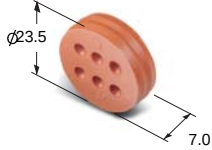
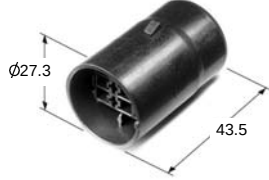
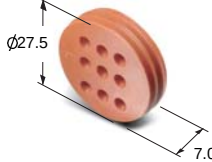
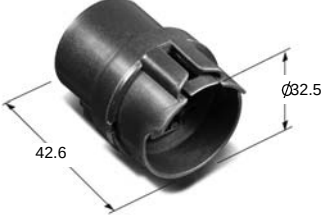
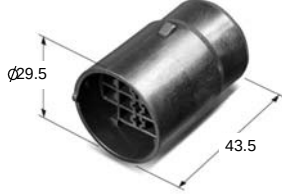
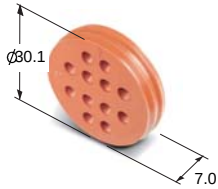


HOUSING

Poles	Receptacle housing for female terminal		Plug housing for male terminal	Wire Seal
1	MG640162 		MG610161 	MG 680163 
2	MG 640165 	MG 640192 	MG 610164 	MG 680166 
3	MG 640168 	MG 640193 	MG 610167 	MG 680169 
4	MG 640171 	MG 640194 	MG 610170 	MG680172 

BS CONNECTOR

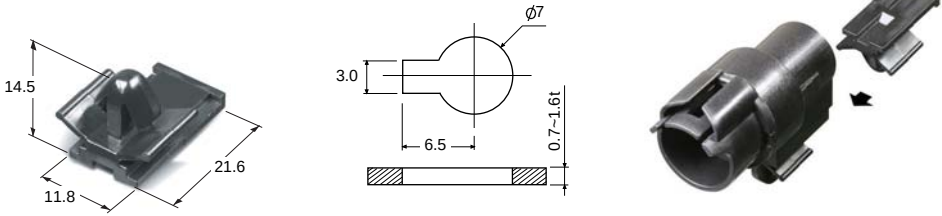
HOUSING

Poles	Receptacle housing for female terminal		Plug housing for male terminal	Wire Seal
6	MG640174	MG640195	MG610173	MG680175
				
9	MG640196		MG610176	MG680178
				
12	MG640197		MG610179	MG680181
				

Suitable Terminal: ST 730383, ST 731086, ST 730192, ST 740393, ST 740315, ST 740187, ST 740193

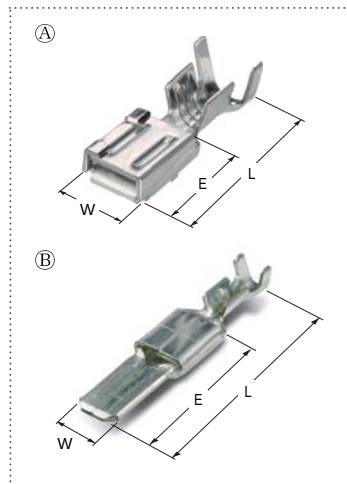
CLIP

MG 630156



187II CONNECTOR

187II TERMINAL



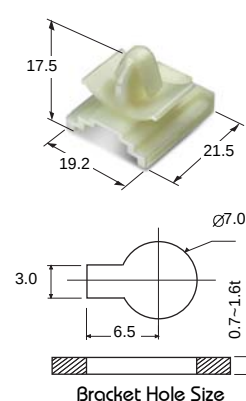
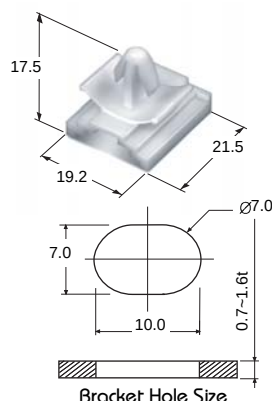
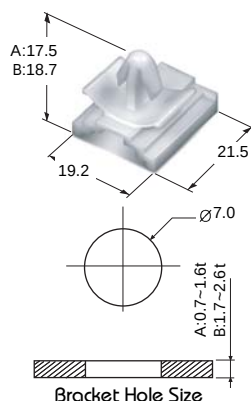
Part No.	Wire Range		Tab Thick.	Thick.	Material	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST730644-3	22~20	AVSS(CAVS) 0.3~0.5	0.8	0.4	Brass Pre-Tin	18.0	7.8	6.0	A
ST730645-3	18~16	AVSS(CAVS) 0.85~1.25	0.8	0.4	Brass Pre-Tin	18.0	7.8	6.0	
ST730646-3	14-12	AVSS 2.0 AVS 3.0	0.8	0.4	Brass Pre-Tin	18.0	7.8	6.0	
ST731376-3	14-12	AVSS AVS 2.0~3.0	0.8	0.4	Brass Pre-Tin	18.0	7.8	6.0	
ST740631-3	22~20	AVSS(CAVS) 0.3~0.5	0.8	0.4	Brass Pre-Tin	26.7	16.8	4.8	B
ST740632-3	18~16	AVSS(CAVS) 0.85~1.25	0.8	0.4	Brass Pre-Tin	26.7	16.8	4.8	
ST740633-3	14-12	AVSS 2.0f AVS 3.0	0.8	0.4	Brass Pre-Tin	26.7	16.8	4.8	

CLIP

MG 630973(A) MG 631874(B)

MG 631136

MG 633195



HOUSING

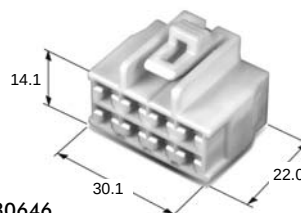
Poles

Plug housing for female terminal

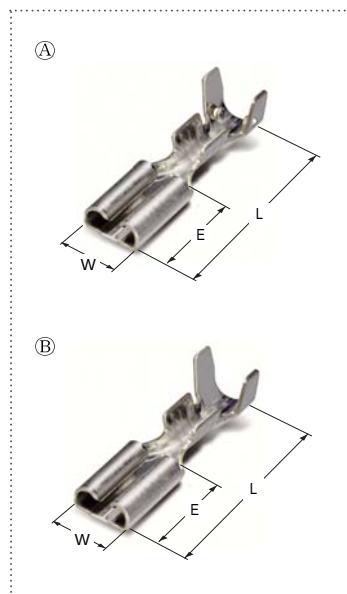
MG 652220

8

Suitable Terminal :
ST730644, ST730645, ST730646



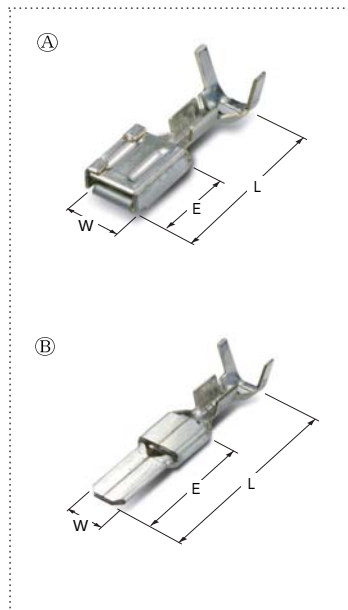
187 D/L TERMINAL



ST730602-1	22-20	AVSS 0.3-0.5	0.8	0.35	Brass	19.5	7.8	5.8	A
ST730602-3					Pre-Tin				
ST730603-1	18-14	AVSS 0.85-2.0	0.8	0.35	Brass	19.5	7.8	5.8	
ST730603-3					Pre-Tin				
ST730968-3	13	AESSXF 2.5	0.8	0.35	Brass Pre-Tin	19.5	7.8	5.8	B
ST731114-3	18-14	AVSS 0.85, 1.25, 2.0	0.8	0.35	Brass Pre-Tin	19.5	7.8	5.8	

187II WP CONNECTOR

TERMINAL



Part No.	Wire Range mm ²	Tab Thick.	Material		Dimension(mm)			Type
			Thick.	Finish	L	€	W	
ST730715-3	AVSS 0.3~0.85	0.8	0.4	Brass Pre-Tin	19.5	7.8	6.0	A
ST730716-3	AVSS 1.25~2.0	0.8	0.4	Brass Pre-Tin	19.5	7.8	6.0	
ST730717-3	AVS 3.0	0.8	0.4	Brass Pre-Tin	19.5	7.8	6.0	
ST740734-3	AVSS 0.3~0.85	0.8	0.4	Brass Pre-Tin	28.4	16.9	4.8	B
ST740735-3	AVSS 1.25~2.0	0.8	0.4	Brass Pre-Tin	28.4	16.9	4.8	
ST740736-3	AVS 3.0	0.8	0.4	Brass Pre-Tin	28.4	16.9	4.8	

WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG681367	AVSS 0.3~0.5	Silicone	Red	8.0	Ø8.1	D
MG681370	AVS 0.3~0.85	Silicone	Gray	8.0	Ø8.1	
MG681371	AVS 1.25~2.0	Silicone	Black	8.0	Ø8.1	
MG681372	AVS 3.0	Silicone	Blue	8.0	Ø8.1	
MG681373	Dummy Seal	Silicone	Gray	8.7	Ø8.5	E

D



E

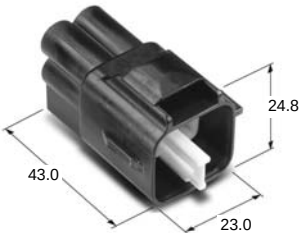


187II WP CONNECTOR

- Improved design from 187 size sealed connector for higher reliability.
- The blade width of the male terminal for this connect or is 0.187inch. (Distinctive Features)
 1. Double locking system eliminates terminal push-out. (Housing lance, Side lock).
 2. Connectors cannot be mated if preset terminal spacer is not in full-lock position.

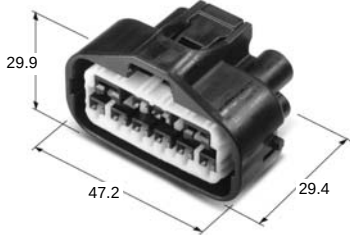


HOUSING

Poles	Plug housing for male terminal	Receptacle housing for female terminal
4	MG 651747 	MG 641744 

⇒ Suitable Clip: 090II Type

1809 WP CONNECTOR (187II+090II HYBRID)

Poles	Receptacle housing for female terminal	
10	MG 641316-4  (187II WP 2P+090II WP 8P)	MG 642351 

12	MG 641306-4 	
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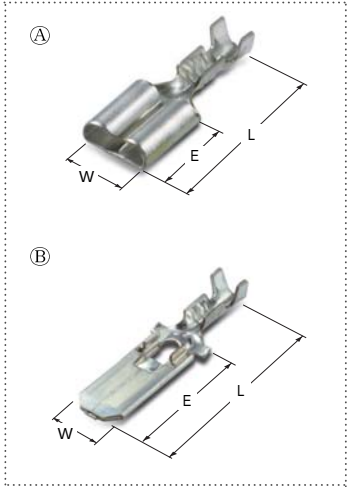
(187II WP4P+090II WP 8P)

250 CONNECTOR



TÜV Licensed
File No.R9254038
 (Conforms to DIN / VDE 0627)

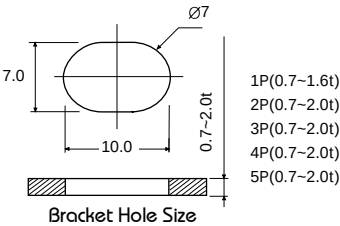
TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm²		Thick.	Finish	L	€	W	
⊗ ST730267-1	22-20	AVSS 0.3~0.5	0.8	0.35	Brass	19.5	7.8	7.4	Ⓐ
ST730267-3					Pre-Tin				
⊗ ST730268-1	18-14	AVSS 0.75~2.27	0.8	0.35	Brass	19.5	7.8	7.4	
ST730268-3					Pre-Tin				
⊗ ST730269-1	14-12	AVSS 2.0 AVS 3.0	0.8	0.35	Brass	19.5	7.8	7.4	
ST730269-3					Pre-Tin				
⊗ ST740253-1	22-20	AVSS 0.3~0.5	0.8	0.4	Brass	24.5	15.5	6.0	Ⓑ
ST740253-3					Pre-Tin				
⊗ ST740254-1	18-14	AVSS 0.75~2.27	0.8	0.4	Brass	24.5	15.5	6.0	
ST740254-3					Pre-Tin				
⊗ ST740255-1	14-12	AVSS2.0 AVS 3.0	0.8	0.4	Brass	24.5	15.5	6.0	
ST740255-3					Pre-Tin				

CLIP TYPE(Female Housing)

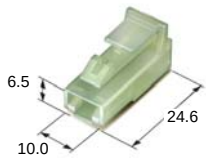
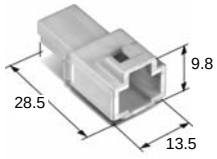
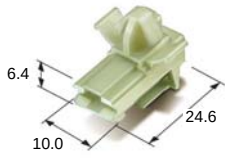
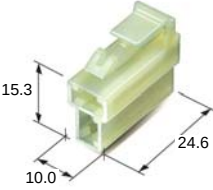
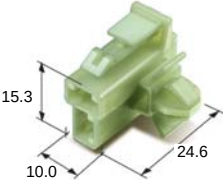
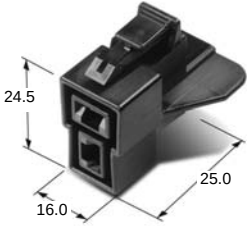
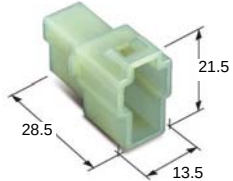
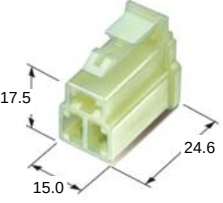
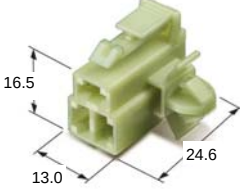
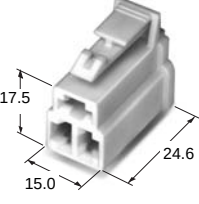
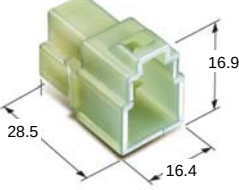
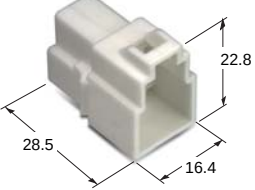
MG 630675(1P)
 MG 630676(2P)
 MG 630677(3P)
 MG 630678(4P)
 MG 630759(6P)
 MG 635232(1P)



- ▶Receptacles and Tabs can be used from Single-pole to Multiple-pole connections.
- ▶Housing Locking Type is highly reliable.
- ▶Housing Lance Type Improves stability from Terminal Lance Type.
- ▶More suitable for components of Automotive Wiring Harness.

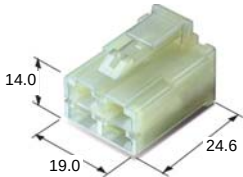
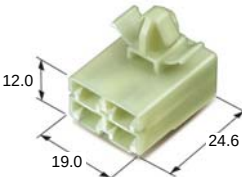
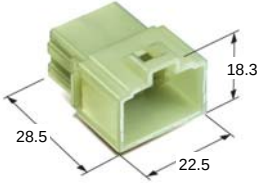
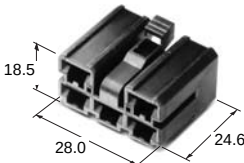
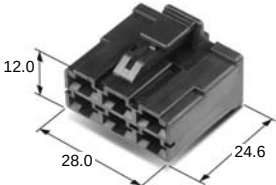
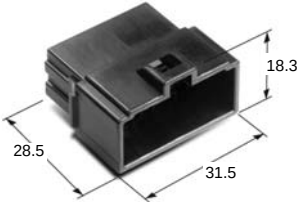
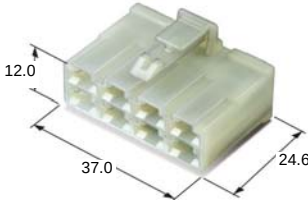
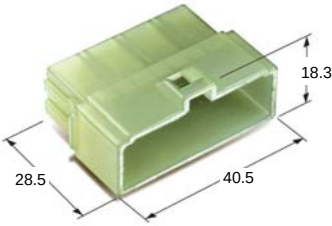
250 CONNECTOR

HOUSING

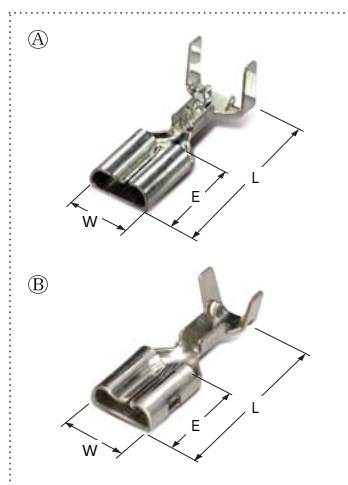
Poles	Plug housing for female terminal	Receptacle housing for male terminal
1	⊗ MG 610041/MG 610041R  6.5 10.0 24.6	⊗ MG 620040 /MG 620040R  9.8 28.5 13.5
	MG 630675(T=0.7~1.6) MG 633062(T=1.7~2.6)  6.4 10.0 24.6	
2	⊗ MG 610043 MG 613691 (HPA) MG 612024(PBT)  15.3 10.0 24.6 MG 630676  15.3 10.0 24.6 MG 610684  24.5 16.0 25.0	⊗ MG 620042 MG 623696(HPA) MG 622023(PBT)  21.5 28.5 13.5
	⊗ MG 610045 MG 612026(PBT)  17.5 15.0 24.6 MG 630677  16.5 13.0 24.6	
3	MG 614758  17.5 15.0 24.6	MG 620044  16.9 28.5 16.4 MG 624757  22.8 28.5 16.4

250 CONNECTOR

HOUSING

Poles	Plug housing for female terminal		Receptacle housing for male terminal
4	MG 610047 	MG 630678 	MG 620046 
	MG 614463 		
6	MG 610049 		MG 620048 
	MG 610051 		MG 620050 

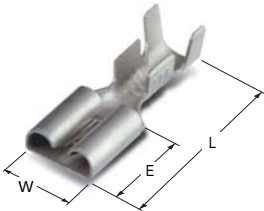
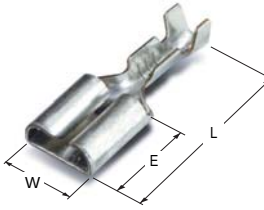
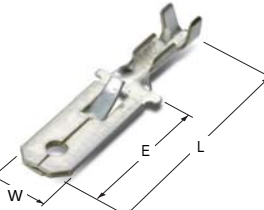
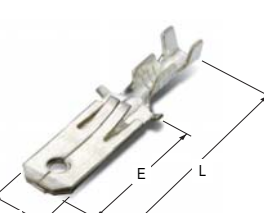
250 TERMINAL(BOX)



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST731165-3	22-20	AVSS 0.3~0.5	0.8	0.35	Copper Alloy Pre-Tin	19.5	7.8	7.4	①
ST731166-3	18-16	AVSS 0.85-1.25	0.8	0.35	Copper Alloy Pre-Tin	19.5	7.8	7.4	
ST731167-3	14-12	2.0-3.0	0.8	0.35	Copper Alloy Pre-Tin	19.5	7.8	7.4	
ST730921-3	22-20	AVSS 0.3~0.5	0.8	0.35	Copper Alloy Pre-Tin	19.5	7.8	7.4	②
ST730922-3	18-16	AVSS 0.85-1.25	0.8	0.35	Copper Alloy Pre-Tin	19.5	7.8	7.4	
ST730923-3	14-12	2.0-3.0	0.8	0.35	Copper Alloy Pre-Tin	19.5	7.8	7.4	

250 CONNECTOR

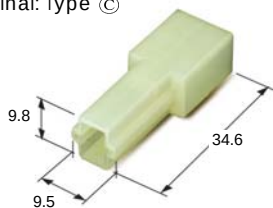
TERMINAL

Ⓐ 	Part No.	Wire Range		Tab Thick.	Material	Dimension(mm)			Type	
		AWG	mm²		Thick.	Finish	L	E		W
	◇ ST730313-1	22-20	AVSS	0.8	0.35	Brass	19.5	7.8	7.4	Ⓐ
	◇ ST730313-2		0.3~0.5			Brass / Tin				
◇ ST730141-1	18-14	AVSS	0.8	0.35	Brass	19.5	7.8	7.4		
◇ ST730141-2		0.85~2.27			Brass / Tin					
◇ ST730142-1	14-12	AVSS 2.0	0.8	0.35	Brass	19.5	7.8	7.4		
◇ ST730142-2		AVS 3.0			Brass / Tin					
Ⓑ 	◇ ST730025-1	18-14	AVSS	0.8	0.4	Brass	19.5	7.8	7.4	Ⓑ
	◇ ST730025-2		0.75~2.27			Brass / Tin				
	◇ ST730023-1	14-10	AVSS 2.0	0.8	0.4	Brass	19.5	7.8	7.4	
	◇ ST730023-2		AVS 3.0			Brass / Tin				
Ⓒ 	ST730752-1	22-20	AVSS	0.8	0.4	Brass	19.5	7.8	7.4	Ⓒ
	ST730752-3		0.3~0.5			Brass / Tin				
	ST730768-1	18-14	AVSS	0.8	0.4	Brass	19.5	7.8	7.4	
	ST730768-3		0.85~1.25			Brass / Tin				
ST730769-1	14-12	AVSS 2.0	0.8	0.4	Brass	19.5	7.8	7.4		
ST730769-3		AVS 3.0			Brass / Tin					
Ⓓ 	ST730916-3	14	AVSS 2.0	0.8	0.4	Pre-Tin	19.5	7.8	7.4	Ⓓ
	ST740189-1	14-12	AVSS 2.0	0.8	0.4	Brass	24.5	13.2	6.0	
	ST740189-3		AVS 3.0			Brass / Tin				
	◇ ST740314-1	22-20	AVSS	0.8	0.4	Brass	24.5	13.2	6.0	
ST740314-3	0.3~0.5		Brass / Tin							
▣ ST740050-1	18-14	AVSS	0.8	0.4	Brass	24.5	13.2	6.0	Ⓔ	
■ ST740050-3		0.85~2.0			Brass / Tin					
◇ ST740439-1	14-10	AVSS 2.0	0.8	0.4	Brass	24.5	13.2	6.0		
ST740439-3		AVS 3.0			Brass / Tin					
◇ ST740385-1	22-20	AVSS	0.8	0.4	Brass	24.5	14.1	6.0	Ⓕ	
ST740385-3		0.3~0.5			Brass / Tin					
◇ ST740386-1	18-14	AVSS	0.8	0.4	Brass	24.5	14.1	6.0		
ST740386-3		0.85~2.0			Brass / Tin					

HOUSING

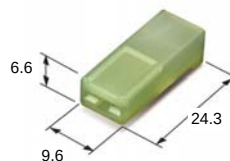
◇ MG620037

Suitable Terminal: Type C



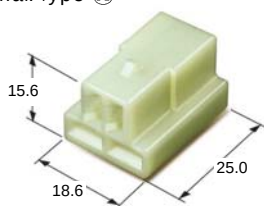
◇ MG610086

Suitable Terminal: Type A



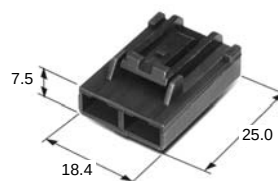
◇ MG610101

Suitable Terminal: Type A



◇ MG610422(For Fuel Pump:Type)

Suitable Terminal: Type A



250 CONNECTOR

TERMINAL

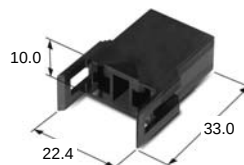
Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	℄	W	
ST730869-1 ST730869-3	22-20	AVSS 0.3~0.5	0.8	0.4	Brass Pre-Tin	22.0	11.2	7.4	A
◇ ST730222-1 ST730222-3	18-14	AVSS 0.75~2.27	0.8	0.4	Brass Pre-Tin	22.6	11.2	7.4	
ST730394-3	24-20	AVSS 0.2~0.5	0.8	0.4	Brass Pre-Tin	21.8	9.6	7.6	B
ST730382-3	20-16	AVSS 0.5~1.25	0.8	0.4	Brass Pre-Tin	21.8	9.6	7.6	
ST730380-3	20-16	AVSS 0.5~1.25	0.8	0.4	Brass Pre-Tin	23.8	11.3	7.5	C
ST730381-3	14-12	AVSS 2.0 AVS 3.0	0.8	0.4	Brass Pre-Tin	23.8	11.3	7.5	
ST730897-1 ST730897-3	14-12	AVS 2.0~3.0 AVSS 2.0	0.8	0.4	Brass Pre-Tin	21.8	10.6	7.6	D
ST730898-1 ST730898-3	18-16	AVSS 0.85~1.25	0.8	0.4	Brass Pre-Tin	21.8	10.6	7.6	
ST730901-1 ST730901-3	16-14	AVSS 1.25~2.0	0.8	0.4	Brass Pre-Tin	20.4	9.8	7.85	E
ST730902-1 ST730902-3	12-10	AVSS 0.3~0.5	0.8	0.4	Brass Pre-Tin	20.4	9.8	7.85	

HOUSING

Plug housing for female terminal

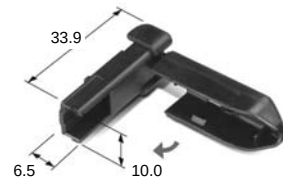
MG 611730

Suitable Terminal: ST730267, ST730268, ST730269



MG 632413

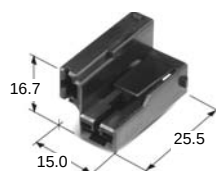
Suitable Terminal: ST730901, ST730902



MG 630685

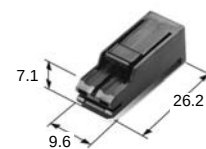
Suitable Terminal:
205 Type : 730351-5
250 Type : D

MG 632410-7



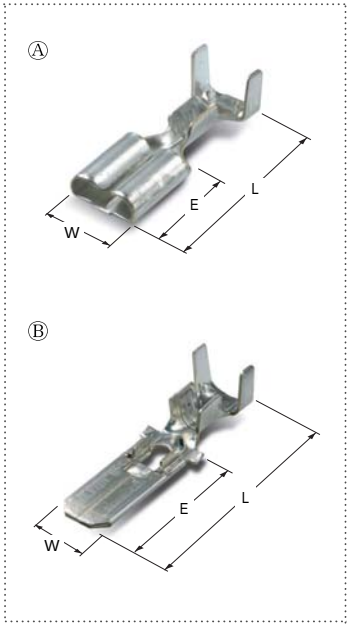
MG 630063

Suitable Terminal: 250 Type : C



250 D/L CONNECTOR

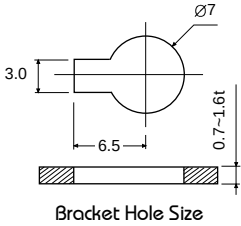
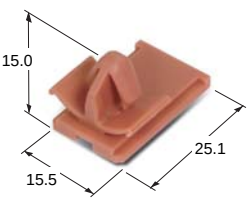
TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm²		Thick.	Finish	L	€	W	
ST730467-1	22-20	AVSS	0.8	0.35	Brass	19.5	7.8	7.4	Ⓐ
ST730467-3		0.3~0.5			Pre-Tin				
ST730468-1	18-16	AVSS	0.8	0.35	Brass	19.5	7.8	7.4	
ST730468-3		0.85-1.25			Pre-Tin				
ST730469-1	14-12	AVSS2.0	0.8	0.35	Brass	19.5	7.8	7.4	
ST730469-3		AVS 3.0			Pre-Tin				
ST740470-1	22-20	AVSS	0.8	0.4	Brass	24.5	13.7	6.0	Ⓑ
ST740470-3		0.3~0.5			Pre-Tin				
ST740471-1	18-16	AVSS	0.8	0.4	Brass	24.5	13.7	6.0	
ST740471-3		0.85-1.25			Pre-Tin				
ST740472-1	14-12	AVSS2.0	0.8	0.4	Brass	24.5	13.7	6.0	
ST740472-3		AVS 3.0			Pre-Tin				

CLIP

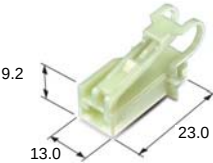
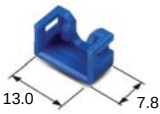
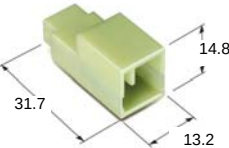
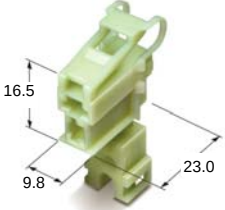
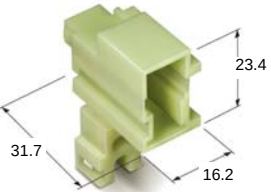
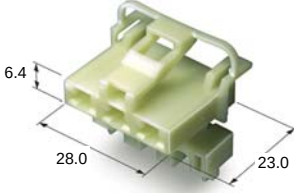
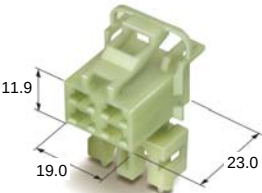
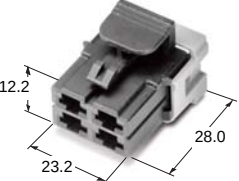
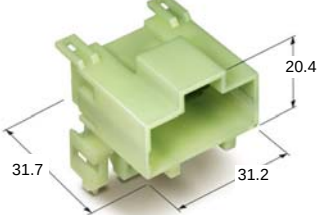
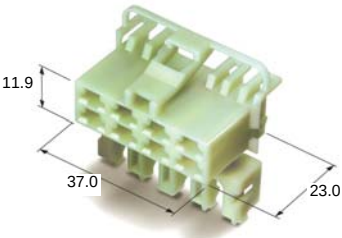
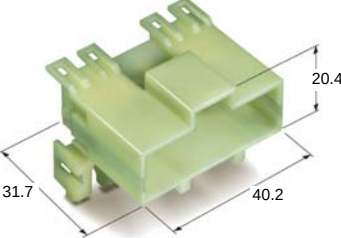
MG631935



- In-Line, wire to wire connector for an automobile.
- Wide range of usage for mid and high current circuits.
- Double Locking system with a Rear Holder prevents incomplete terminal locking into housing.

250 D/L CONNECTOR

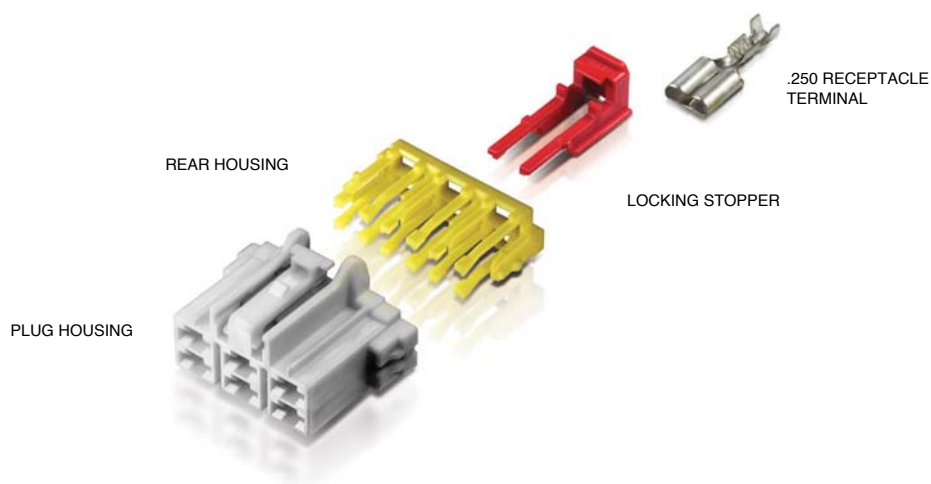
HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
1	MG 610983  MG 630998-2 	MG 620984 
2	MG 610263 	MG 620262 
3	MG 611657 	
4	MG 610267 	MG 620266 
4	MG 655651 	
6	MG 610269 	MG 620268 
8	MG 610271 	MG 620270 

250 D/L

250III CONNECTOR

- These connectors are suitable for parts requiring high degrees of reliability such as, in automobile air bag, ABS, and ignition switch system.
- Triple-lock connectors are being employed for the first time in Korea to provide complete connection between housings.
- Detachable rear holders are employed in double lock structure to prevent incomplete terminal locking or non-insertion.



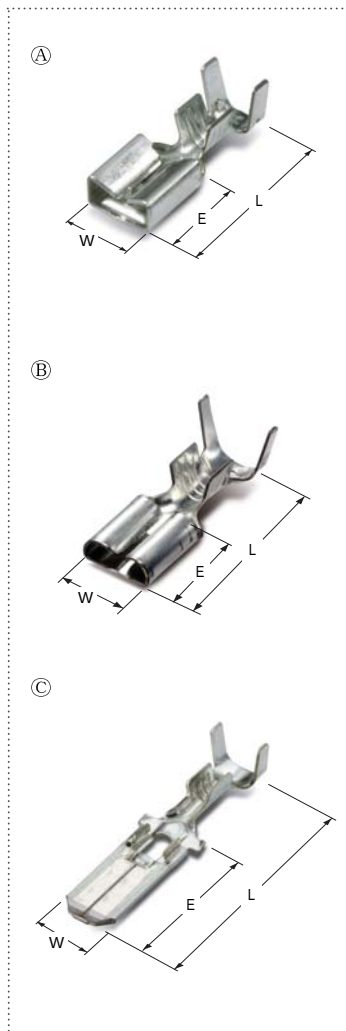
HOUSING

Poles	Plug housing for female terminal
2	MG 650901 MG 610899
6	MG 650887 MG 610885

Suitable Terminal : ST 730267, ST 730268, ST 730269

250 WP(58X) CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST730411-1	20-16	AVSS	0.8	0.35	Brass	20.0	8.0	7.8	A
ST730411-3		0.5~1.25			Pre-Tin				
ST730412-1	14-12	AVSS 2.0	0.8	0.35	Brass	20.0	8.0	7.8	
ST730412-3		AVS 3.0~4.0			Pre-Tin				
ST730659-3	20-16	AVSS 0.5~1.25	0.8	0.35	Brass Pre-Tin	20.0	8.0	7.4	B
ST730660-3	14-12	AVSS 2.0~3.0	0.8	0.35	Brass Pre-Tin	20.0	8.0	7.4	
ST740576-1	20-16	AVSS	0.8	0.4	Brass	28.0	14.3	6.0	C
ST740576-3		0.5~1.25			Pre-Tin				
ST740577-1	14-12	AVSS 2.0	0.8	0.4	Brass	28.0	14.3	6.0	
ST740577-3		AVS 3.0			Pre-Tin				

WIRE SEAL

Part No.	Wire Range		Material	Color	Dimension(mm)		Type
		mm ²			L	€	
MG 680524	AV, AVS, AVX AVS, AVXF AVS, AVSS	0.5 0.85 1.25	Silicone	Black	9.3	Ø9.6	D
MG 680728	AVX AVX, AVS	1.25 2.0	Silicone	Blue	9.3	Ø9.6	
MG 680601	AV AVS, AEX	3.0 3.0	Silicone	Red	9.3	Ø9.6	
MG 681505	AVSS	0.3~0.5	Silicone	Green	9.3	Ø9.6	
MG 683213	Dummy Seal		Silicone	Brown	6.0	Ø9.8	E

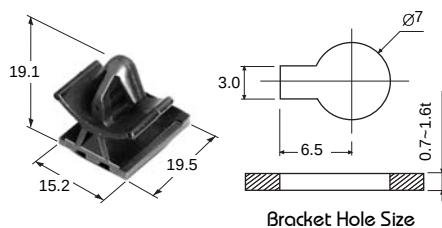
D

E

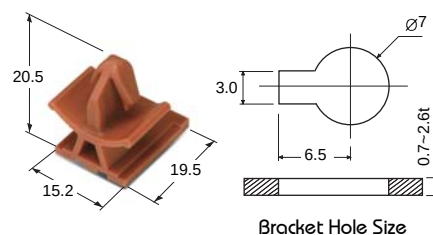


CLIP

MG 630521



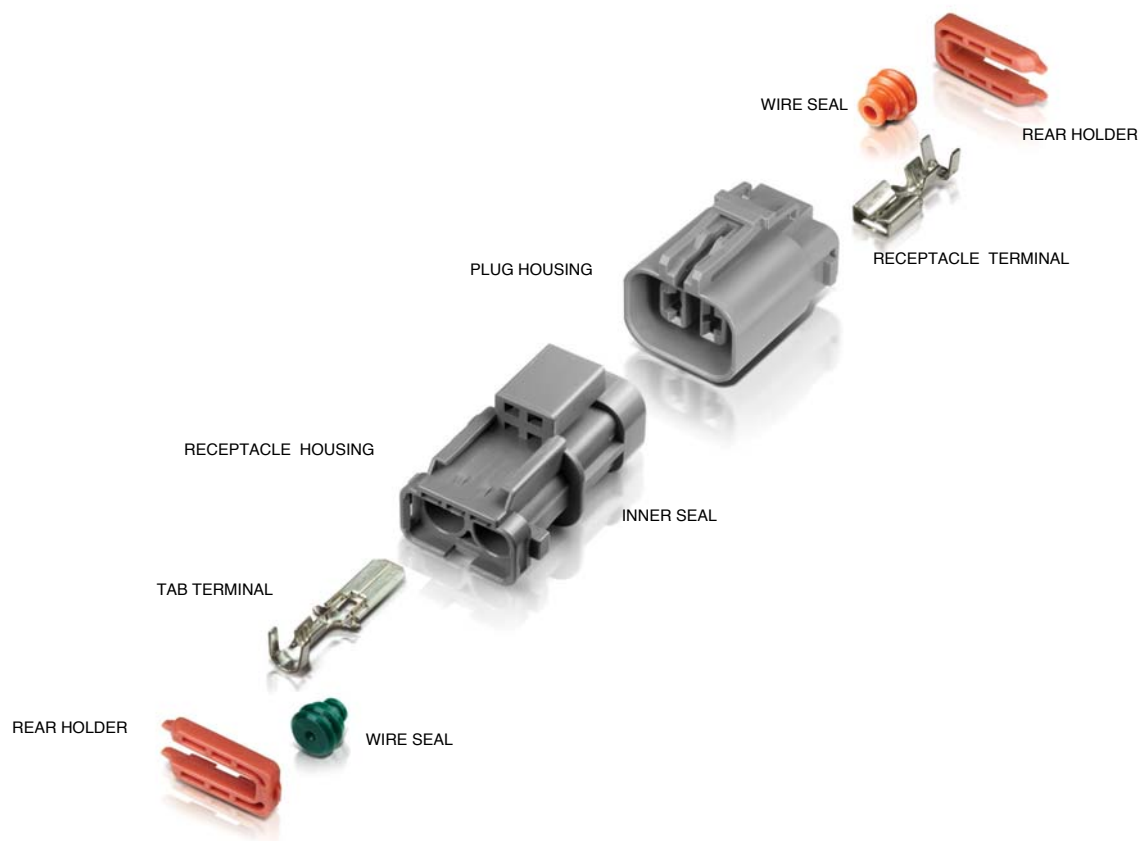
MG 635541-7



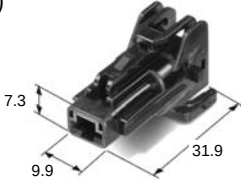
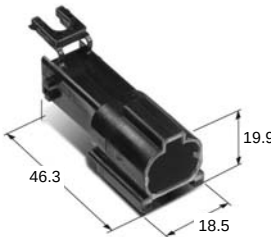
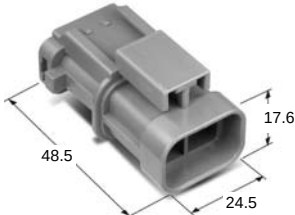
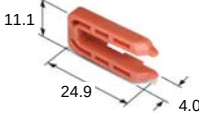
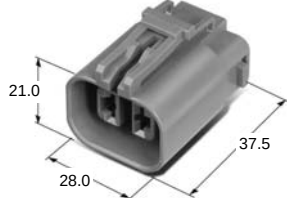
250 WP(58X) CONNECTOR

250 WP(58X) CONNECTOR

►Designed to waterproof Connectors in wide range of electrical and electronic products from Home Appliances to Automotive Wiring: providing safe and secured electrical connections.



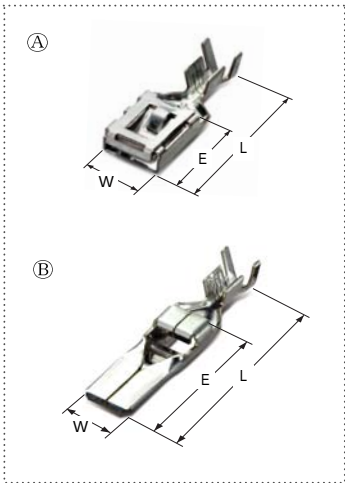
HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
1	MG 610949 MG 613807(HPA)  7.3 9.9 31.9 Suitable Terminal: ST 730659, ST 730660	MG 640951  46.3 18.5 19.9
2	MG 610574-4  48.5 17.6 24.5 MG 630537-7  11.1 24.9 4.0	MG 640188-4  21.0 28.0 37.5 Suitable Terminal: ST 730411, ST 730412

250(630) CONNECTOR

- ▶ The blade width of male terminal for this connector is 6.30mm
- ▶ Double locking system eliminates terminal push-out (Housing lance, TPA)
- ▶ Stable/secure mating action between male and female connector

TERMINAL



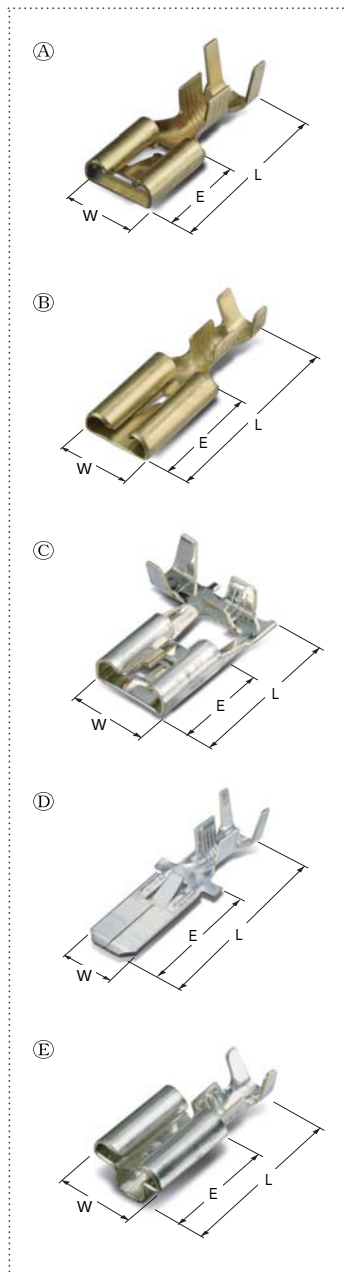
Part No.	Wire Range		Tab		Material	Dimension(mm)			Type
	AWG	mm ²	Thick.	Thick.		L	€	W	
ST731209-3	12-10	AVS 3.0 FLRY 2.5~4.0	0.8	0.4	Copper Alloy Pre-Tin	19.5	8.4	7.5	A
ST731210-3	16-14	AVS 1.0-2.0	0.8	0.4	Copper Alloy Pre-Tin	19.5	8.4	7.5	
ST731211-3	20-18	AVS 0.5-0.85	0.8	0.4	Copper Alloy Pre-Tin	19.5	8.4	7.5	
ST741206-3	12-10	AVS 3.0 FLRY 2.5~4.0	0.8	0.39	Brass Pre-Tin	28.1	17.4	6.3	B
ST741207-3	16-14	AVS 1.0-2.0	0.8	0.39	Brass Pre-Tin	28.1	17.4	6.3	
ST741208-3	20-18	AVS 0.5-0.85	0.8	0.39	Brass Pre-Tin	28.1	17.4	6.3	

HOUSING

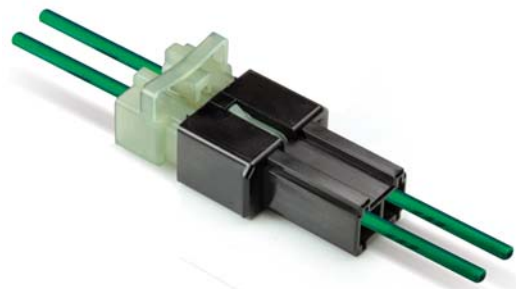
Poles	Plug housing for female terminal	Receptacle housing for male terminal
6	MG 655697	MG 645750

312 CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST730107-1	18-14	AVSS 0.85~2.0	0.8	0.4	Brass	22.8	9.6	9.0	Ⓐ
ST730107-3					Pre-Tin				
ST730108-1	12-10	AVS 3.0~5.0	0.8	0.4	Brass	22.8	9.6	9.0	
ST730108-3					Pre-Tin				
ST730373-1	18-14	AVSS 0.75~2.0	0.8	0.4	Brass	24.3 5	12.1	9.0	Ⓑ
ST730373-3					Pre-Tin				
ST730374-1	12-10	AVS 3.0~5.0	0.8	0.4	Brass	24.3 5	12.1	9.0	
ST730374-3					Pre-Tin				
ST730026-1	16-14	AVSS 1.25~2.0	0.8	0.4	Brass	18.0	8.6	9.0	Ⓒ
ST730026-3					Pre-Tin				
ST731264-1	18-16	AVSS 0.75~1.25	0.8	0.4	Brass	18.0	8.6	9.0	
					Brass-Tin				
ST730707	20-18	AVSS 0.5~0.85	0.8	0.4	Brass	18.0	8.6	9.0	
					Brass-Tin				
ST731264	20-18	AVSS 0.5~0.85	0.8	0.4	Brass	18.0	8.6	9.0	
					Brass-Tin				
ST730026	20-18	AVSS 0.5~0.85	0.8	0.4	Brass	18.0	8.6	9.0	
					Brass-Tin				
ST740109-1	18-14	AVSS 0.85~2.0	0.8	0.4	Brass	29.8	18.0	7.9	Ⓓ
ST740109-3					Pre-Tin				
ST740110-1	12-10	AVS 3.0~5.0	0.8	0.4	Brass	29.8	18.0	7.9	
ST740110-3					Pre-Tin				
ST730273-1	18-14	AVSS 0.5~2.0	0.8	0.4	Brass	19.5	10.0	9.0	Ⓔ
ST730273-3					Pre-Tin				

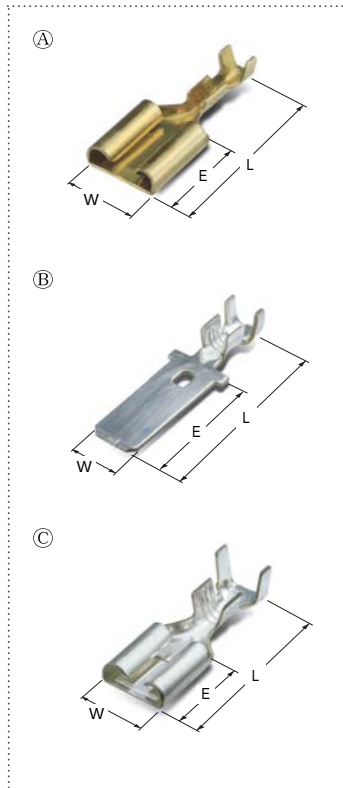


HOUSING

Poles	Plug housing for female terminal	Rear Holder
2	MG 610686	MG 630687

312 CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST730266-1	22-20	AVSS 0.3~0.5	0.8	0.4	Brass	24.8	9.6	9.0	Ⓐ
ST730266-3					Pre-Tin				
ST730371-1	18-14	AVSS 2.0	0.8	0.4	Brass	24.35	10.0	9.0	
ST730371-3					Pre-Tin				
ST730457-1	14-12	AVSS 2.0 AVS 3.0	0.8	0.4	Brass	24.35	10.0	9.0	
ST730457-3					Pre-Tin				
ST730458-1	14-12	AVSS 2.0 AVS 3.0	0.8	0.4	Brass	24.35	12.1 0	9.0	
ST730458-3					Pre-Tin				
ST730372-1	12-10	AVS 3.0~5.0	0.8	0.4	Brass	24.35	10.0	9.0	
ST730372-3					Pre-Tin				
ST740332-1	14-12	AVSS 2.0 AVS 3.0	0.8	0.8	Brass	33.8	20.0	7.9	Ⓑ
ST740332-3					Pre-Tin				
ST740333-1	12-10	AVS 3.0~5.0	0.8	0.8	Brass	33.8	22.0	7.9	
ST740333-3					Pre-Tin				
ST740370-1	16-14	AVSS 1.25~2.0	0.8	0.8	Brass	29.7	18.0	7.9	
ST740370-2					Brass/Tin				
ST740399-1	12-10	AVS 3.0~5.0	0.8	0.8	Brass	29.7	16.0	7.9	
ST740399-2					Brass/Tin				
ST730852-1	14-12	AVSS 2.0 AVS 3.0	0.8	0.4	Brass	24.35	10.0	9.0	Ⓒ
ST730852-2					Brass/Tin				
ST730852-3					Pre-Tin				

HOUSING

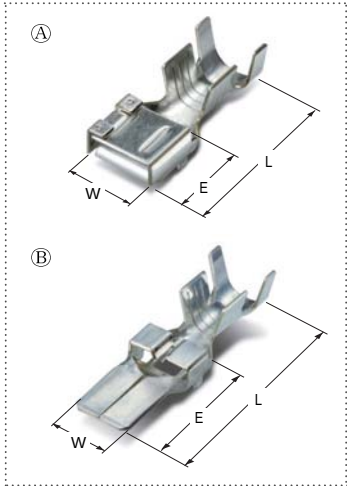
Poles	Plug housing for female terminal	Receptacle housing for male terminal
1	MG 610958	MG 620959
2	MG 610281	MG 620282

Suitable Terminal : ST730371, ST730372

Suitable Terminal : ST740370, ST740399

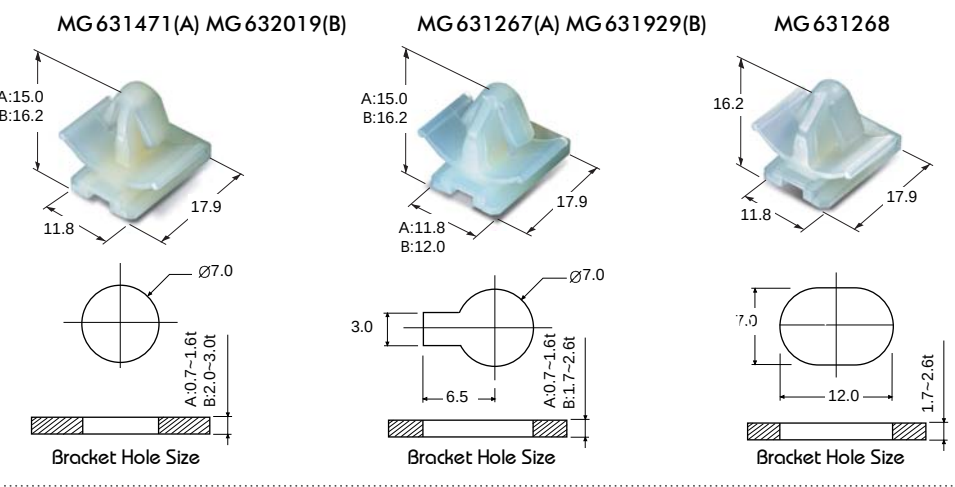
312II CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST730642-3	14-12	AVSS 2.0~3.0	0.8	0.4	Brass Pre-Tin	23.4	7.8	9.2	A
ST730643-3	10-8	AVS 5.0 AV 8.0	0.8	0.4	Brass Pre-Tin	23.4	7.8	9.2	
ST731112-3	14-12	AVS 2.0~3.0	0.8	0.4	Copper Alloy Pre-Tin	23.4	7.8	9.2	
ST731147-3	10-8	AVS 5.0 AV 8.0	0.8	0.4	Copper Alloy Pre-Tin	23.4	7.8	9.2	
ST740600-3	14-12	AVSS 2.0~3.0	0.8	0.4	Brass Pre-Tin	32.3	16.8	8.0	B
ST740601-3	10-8	AVS 5.0 AV 8.0	0.8	0.4	Brass Pre-Tin	32.3	16.8	8.0	

CLIP

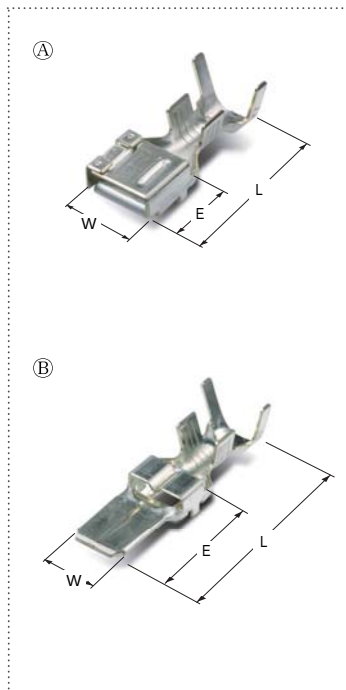


HOUSING

Poles		Plug housing for female terminal	
1	MG 653994	MG 652500	MG 653993
	16.4, 15.0, 27.8	19.25, 19.4, 27.8	19.3, 28.1, 27.8
Plug housing for female terminal		Receptacle housing for male terminal	
4	MG 651926	MG 641928	
	20.0, 36.3, 27.8	44.8, 19.9, 40.3	

312II WP CONNECTOR

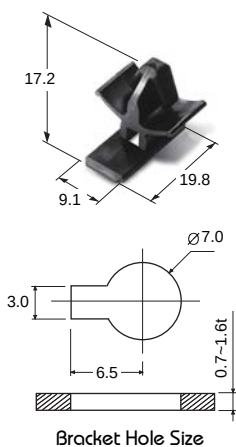
TERMINAL



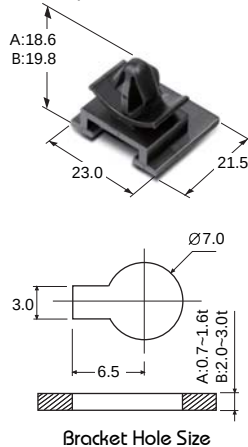
Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST730650-3	16	AVS 1.25	0.8	0.41	Brass Pre-Tin	22.4	7.80	9.20	A
ST730651-3	14-12	AVS 2.0~3.0	0.8	0.41	Brass Pre-Tin	22.4	7.8	9.2	
ST730652-3	10	AVS 5.0 AEXF 5.0	0.8	0.41	Brass Pre-Tin	22.4	7.8	9.2	
ST730893-3	8	AVS 8.0 AEXF 8.0	0.8	0.41	Brass Pre-Tin	22.4	7.8	9.2	
ST730936-3	10	AVS 5.0	0.8	0.41	Copper Alloy Pre-Tin	22.4	7.8	9.2	B
ST740653-3	16	AVS 1.25	0.8	0.39	Brass Pre-Tin	31.3	17.0	7.9	
ST740654-3	14-12	AVS 2.0~3.0	0.8	0.39	Brass Pre-Tin	31.3	17.0	7.9	
ST740655-3	10	AVS 5.0 AEXF 5.0	0.8	0.39	Brass Pre-Tin	31.3	17.0	7.9	
ST740668-3	8	AVS 8.0 AEXF 8.0	0.8	0.39	Brass Pre-Tin	31.3	17.0	7.9	

CLIP

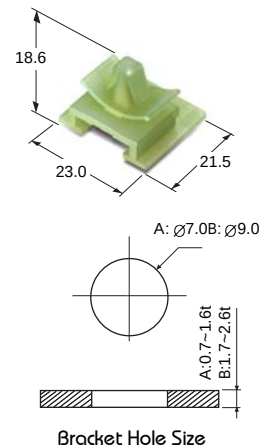
MG 632278(1P, 2P ONLY)



MG 631970(A) MG 631984(B)
(3P ONLY)

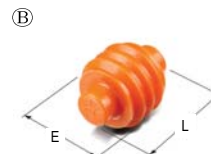


MG 632729(A) MG 632577(B)
(3P ONLY)



WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG 680953	AVS 1.25, AVS 2.0~3.0	Silicone	Gray	10.0	Ø11.8	A
MG 680954	AVS 5.0, AV 8.0	Silicone	Black	10.0	Ø11.8	
MG 680961	Dummy Seal	Silicone	Orange	16.0	Ø12.5	B



312II WP CONNECTOR

HOUSING

Poles	Plug housing for male terminal	Receptacle housing for female terminal
1	MG 650943 	MG 640944 
2	MG 652934 	MG 642928 
3	MG 652290 	MG 642292 



- These are waterproof connectors for circuits carrying mid and high current.
- Suitable for water-tight areas such as automobile engine compartments.
- Terminals are designed as box structures to reinforce contact between terminals and to improve electrical performance.

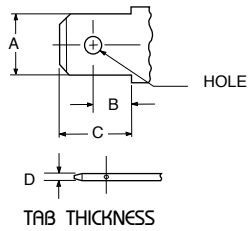
31I8 WP CONNECTOR

MG 642925



(312II WP 2P+187II WP 1P)

375 CONNECTOR



TAB	A	B	C	D
375	9.5	7.3	12.3	1.20

TERMINAL

Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
◇ ST 730249-1	18-14	AVSS 0.85~2.0	1.2	0.5	Brass	27.2	12.0	11.0	Ⓐ
ST 730249-3					Pre-Tin				
◇ ST 730250-1	12-10	AVS 3.0~5.0	1.2	0.5	Brass	27.2	12.0	11.0	
ST 730250-3					Pre-Tin				

TERMINAL

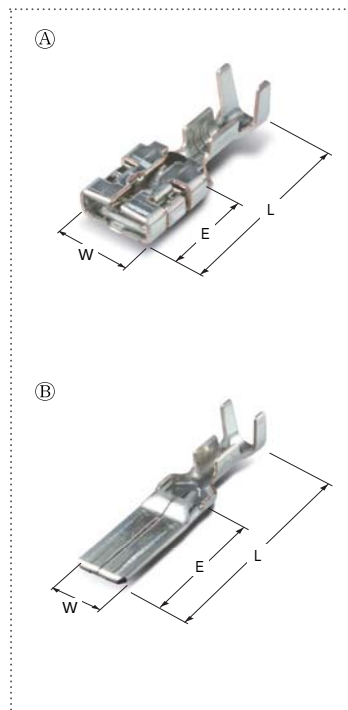
ST730247-1	18-14	AVSS 0.85~2.0	1.2	0.5	Brass	27.2	12.0	11.0	B
ST730247-3					Pre-Tin				
ST730248-1	12-10	AVS 3.0~5.0	1.2	0.5	Brass	27.2	12.0	11.0	
ST730248-3					Pre-Tin				
ST730251-1	18-14	AVSS 0.85~2.0	1.2	0.6	Brass	32.3	18.5	9.5	
ST730251-3					Pre-Tin				
ST740375-1	16-14	AVSS 1.25~2.0	1.2	0.6	Brass	32.3	18.5	9.5	
ST740375-3					Pre-Tin				
ST740251-1	18-14	AVS 0.85~2.0	1.2	0.6	Brass	32.3	18.5	9.5	C
ST740251-3					Pre-Tin				
ST740252-1	12-10	AVS 3.0~5.0	1.2	0.6	Brass	32.3	18.5	9.5	
ST740252-3					Pre-Tin				

TERMINAL

ST730307-1	20-18	AVSS 0.5~0.85	1.2	0.5	Brass	27.2	12.0	11.0	D
ST730307-3					Pre-Tin				
ST730337-1	18-14	AVSS 0.85~2.0	1.2	0.5	Brass	27.2	12.0	11.0	
ST730337-3					Pre-Tin				
ST730338-1	12-10	AVS 3.0~5.0	1.2	0.5	Brass	27.2	12.0	11.0	
ST730338-3					Pre-Tin				
ST740339-1	16-12	AVSS 1.25~2.0 AVS 3.0	1.2	0.6	Brass	32.3	18.5	9.5	E
ST740339-3					Pre-Tin				
ST740340-1	12-10	AVS 3.0~5.0	1.2	0.6	Brass	32.3	18.5	9.5	
ST740340-3					Pre-Tin				

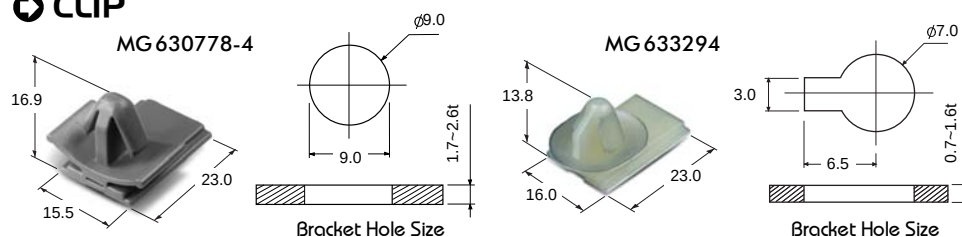
375(58L) CONNECTOR

☛ TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST730722-3	10-8	AVS 5.0~8.0 AV 8.0	1.2	0.6	Copper Alloy/ Pre-Tin	29.0	13.0	11.3	A
ST730723-3	12	AVS 3.0	1.2	0.6	Copper Alloy/ Pre-Tin	29.0	13.0	11.3	
ST731050-3	AEXF 8.0+8.0		1.2	0.6	Copper Alloy/ Pre-Tin	29.0	13.0	11.3	
ST731378-3	7	FLRY 10.0	1.2	0.6	Copper Alloy/ Pre-Tin	29.0	13.0	11.3	
ST740538-3	12	AVS 3.0	1.2	0.6	Copper Alloy/ Pre-Tin	40.0	20.50	9.50	B
ST740539-3	10-8	AVS 5.0~8.0 AV 8.0	1.2	0.6	Copper Alloy/ Pre-Tin	40.0	20.50	9.50	

☛ CLIP



- Automobile connector designed to work in high voltage
- Suitable for Fusible-Link, Relay Box, etc.
- Double Locking system with a Rear Holder prevents incomplete terminal locking into housing.

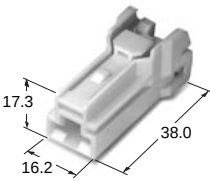
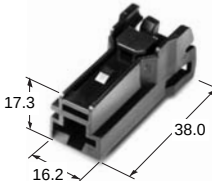
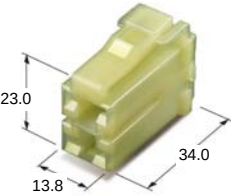
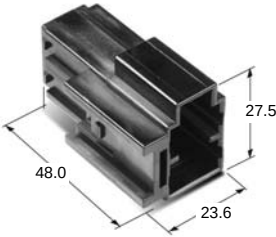
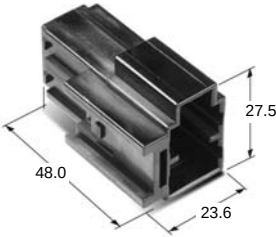
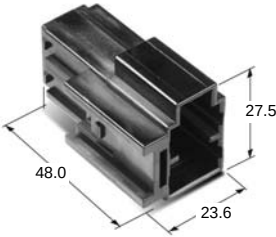
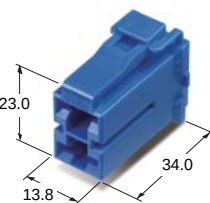
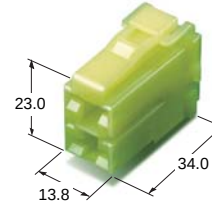
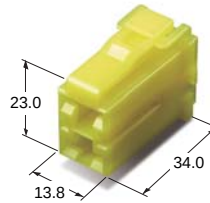
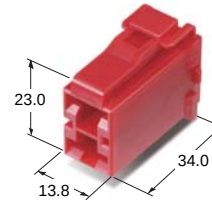
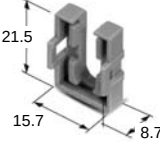
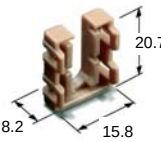
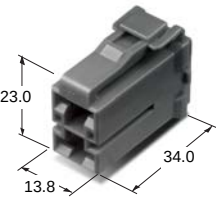
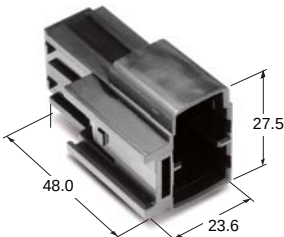


☛ HOUSING

Poles	Plug housing for female terminal	Rear holder	Receptacle housing for male terminal	Rear holder
1	MG 610658 	MG 630660-4 	MG 620659 	MG 630661-7
	MG 613689 		MG 623688 	
	MG 615575 			

375(58L) CONNECTOR

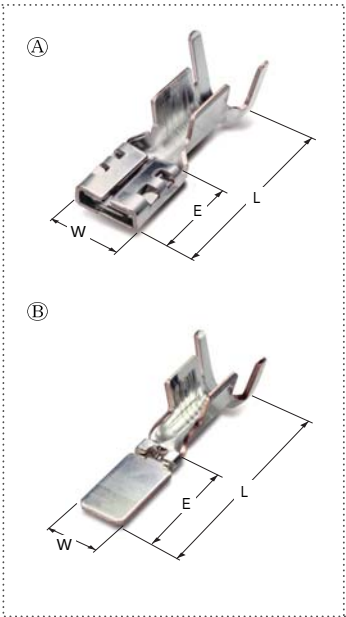
HOUSING

Poles	Plug housing for female terminal	Rear holder	Receptacle housing for male terminal	Rear holder
1	MG 614449(L-TYPE) MG 614450(R-TYPE)  			
	MG 610557 	MG 630656-4 	MG 620558 	MG 630657-7 
	MG 613130-2(L) MG 613131-6  			
2	MG 613132-3(L) MG 613133-1(R)  			
	MG 613692 			
	MG 655655 		MG 625429 	

375(58L)

375WP CONNECTOR

TERMINAL

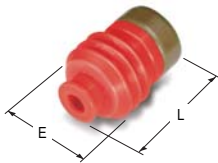


Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST731392-S	7-5	AEX HSF 10.0-15.0	1.2	0.6	Copper Alloy/ Pre-Tin	29.0	13.0	11.3	Ⓐ
ST741353-S	7-5	AEX HSF 10.0-15.0	1.2	0.6	Copper Alloy/ Pre-Tin	40.0	20.50	9.50	Ⓑ

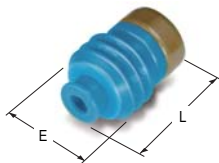
WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG685429	AEXF 15.0	Silicone	Red	21.9	Ø13.6	Ⓒ
MG685442	AEXF 10.0	Silicone	Blue	21.9	Ø13.6	Ⓓ

Ⓒ



Ⓓ

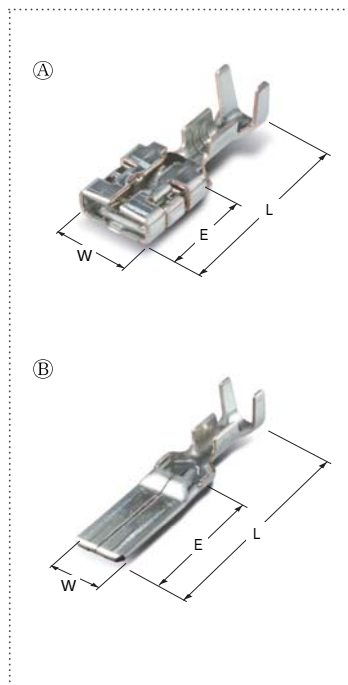


HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
2	MG 645784 Suitable Terminal : 7116-5625-06(YAZAKI) Suitable Wire Seal: 7158-3672-50(YAZAKI)-15SQ : 7158-3713-70(YAZAKI)-10SQ	

375(58Y) CONNECTOR

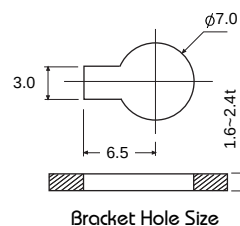
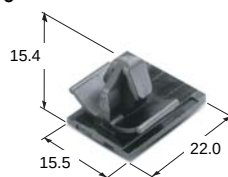
TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST730722-3	10-8	AVS 5.0~8.0 AV 8.0	1.2	0.6	Copper Alloy/ Pre-Tin	29.0	13.0	11.3	A
ST730723-3	12	AVS 3.0	1.2	0.6	Copper Alloy/ Pre-Tin	29.0	13.0	11.3	
ST731378-3	7	FLRY 10.0	1.2	0.6	Copper Alloy/ Pre-Tin	29.0	13.0	11.3	
ST731398-3	7	AEXF 10.0	1.2	0.6	Copper Alloy/ Pre-Tin	29.0	13.0	11.3	
ST740538-3	12	AVS 3.0	1.2	0.6	Copper Alloy/ Pre-Tin	40.0	20.50	9.50	B
ST740539-3	10-8	AVS 5.0~8.0 AV 8.0	1.2	0.6	Copper Alloy/ Pre-Tin	40.0	20.50	9.50	

CLIP

MG633790



Bracket Hole Size

WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG683802	AVS5.0 ~ 8.0	Silicone	Red	9.0	Ø13.6	C
MG685469	AEXF 5.0	Silicone	Green	21.0	Ø13.6	D

C



D

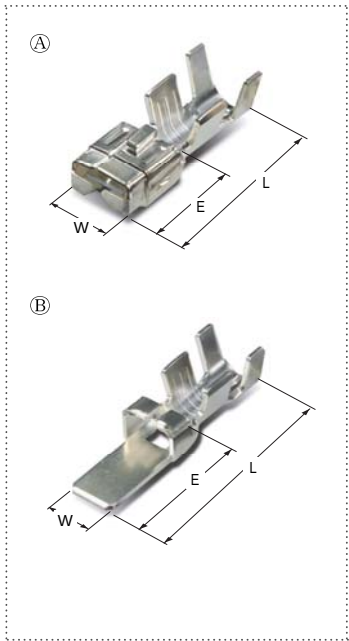


HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
1	MG613801	MG643800

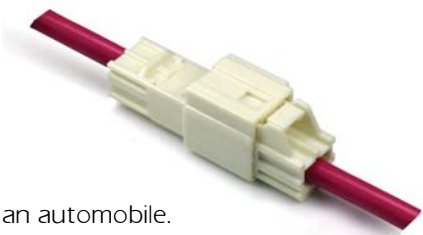
T375 CONNECTOR

TERMINAL



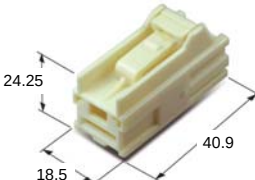
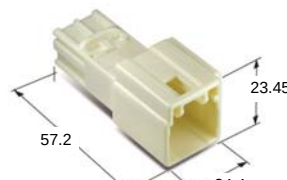
Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
7116-3095-02	8-6	8~15	1.2	0.7 1.2	Copper Alloy Pre-Tin	35.0	14.2	12.3	Ⓐ
7114-3095-02	8-6	8~15	1.2	1.2	Copper Alloy Pre-Tin	43.7	21.7	9.5	Ⓑ

(Terminal:YAZAKI)



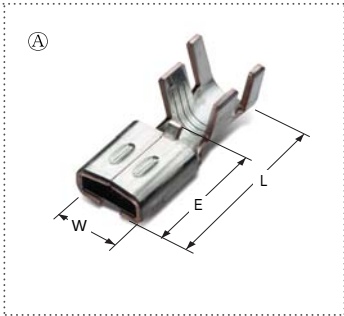
- Connector designed for high voltage in an automobile.
- Suitable for Fusible-Link, Relay Box, BFT, HEV, etc.
- Double Locking system with a Side Holder prevents incomplete lock of a terminal when it is inserted into housing.

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
	MG 653762	MG 643765
1		

375(950) CONNECTOR

TERMINAL



Part No.	Wire Range		Tab		Material	Dimension(mm)			Type
	AWG	mm ²	Thick.	Thick.		L	E	W	
ST731133-3	8-6	AEXF 8.0~15.0	1.2	1.2	Copper Alloy Pre-Tin	29.4	13.2	12.3	A
ST731134-3	4	AEXF 20.0	1.2	1.2	Copper Alloy Pre-Tin	29.4	13.2	12.3	

- ▶ Non Waterproof Connector with Tab Size 9.50mm
- ▶ Current Capacity of 80A (Max100A)
- ▶ High Conductivity and outstanding Temperature characteristic

375(950)

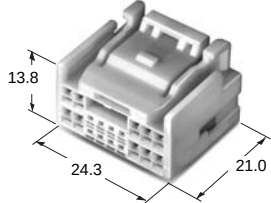
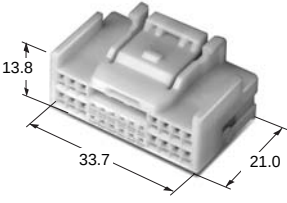
HOUSING

Poles	Plug housing for female terminal
	MG614140
	A perspective view of a grey plastic plug housing. It has a rectangular shape with a central slot. Dimension lines indicate 21.4 (height), 16.7 (width), and 41.0 (length).
	Suitable Terminal : ST731133-3
1	MG615147-41
	A perspective view of a grey plastic plug housing, similar to the one above but with a different internal structure. Dimension lines indicate 21.4 (height), 16.7 (width), and 41.0 (length).
	Suitable Terminal : ST731133-3

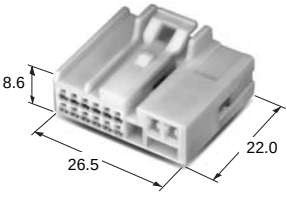
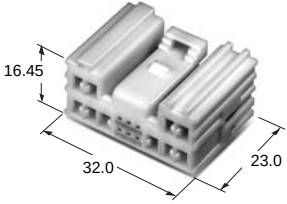
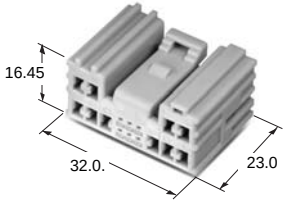
HYBRID CONNECTOR

- ▶ Double locking system eliminates terminal push-out (Housing lance, TPA)
- ▶ Stable/secure mating action between male and female connector
- ▶ Hybrid type connector using two different terminal Tab Size

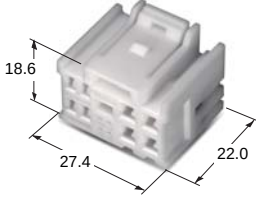
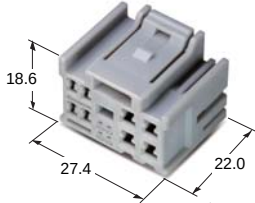
025040 HOUSING

Poles	Plug housing for female terminal	
18	MG 654670 	(040III 10P+025 8P)
26	MG 654667 	(040III 14P+025 12P)

025060 HOUSING

14	MG 655118 	(060 2P+025 12P)
16	MG 655142(A Type) 	MG 655143-41(B Type) 
	(060 10P+025 6P)	(060 10P+025 6P)

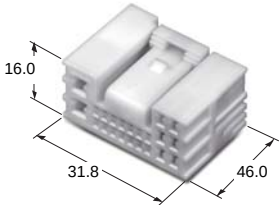
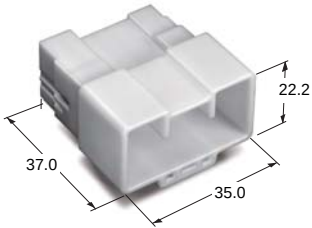
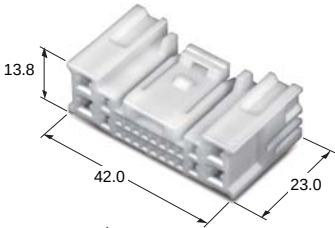
025060II HOUSING

12	MG 655691(A Type) 	MG 655692-40(B Type) 
		(110 4P+060 4P+025 4P)

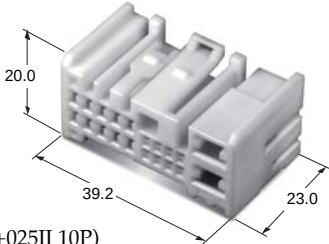
HYBRID CONNECTOR

- ▶ Double locking system eliminates terminal push-out (Housing lance, TPA)
- ▶ Stable/secure mating action between male and female connector
- ▶ Hybrid type connector using two different treminal Tab Size

025II060110 HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
22	MG 655766  (110 2P+060 6P+025II 14P)	MG 645808 
24	MG 655767  (110 4P+060 4P+025II 16P)	MG 645809 
025II Female Suitable Terminal: ST 731374, ST 731375		025II Male Suitable Terminal: ST 741345, ST 741346

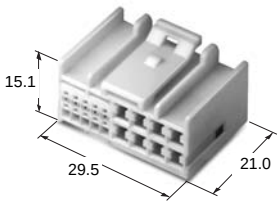
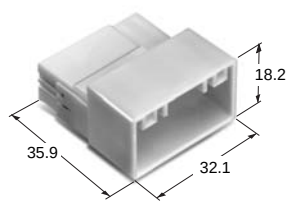
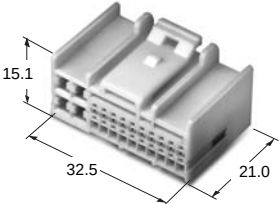
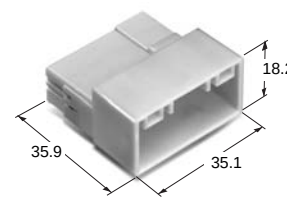
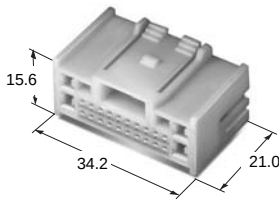
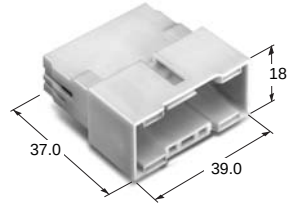
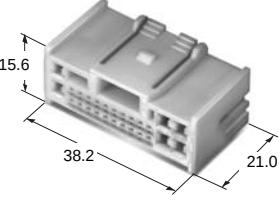
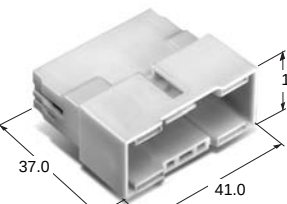
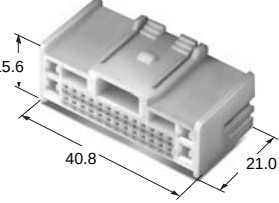
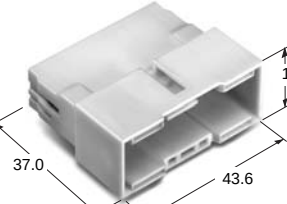
025II060250 HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
20		MG 655745  (250 2P+060 8P+025II 10P)
025II Female Suitable Terminal: ST 731374, ST 731375		025II Male Suitable Terminal: ST 741345, ST 741346

HYBRID

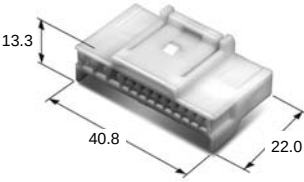
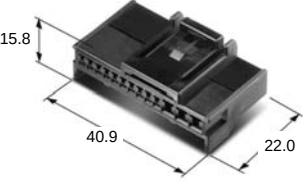
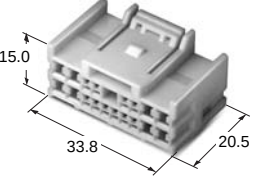
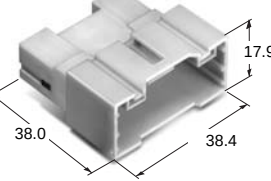
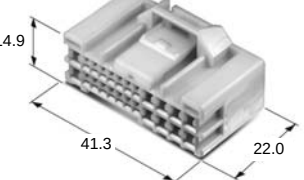
HYBRID CONNECTOR

02509 HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
18	MG 654410  (090II 8P+025 10P)	MG 644416 
24	MG 654413  (090II 4P+025 20P)	MG 644419 
26	MG 654789  (090II 4P+025 20P)	MG 644786 
30	MG 654687  (090II 6P+025 20P)	MG 644690 
30	MG 654928  (090II 4P+025 26P)	MG 644925 

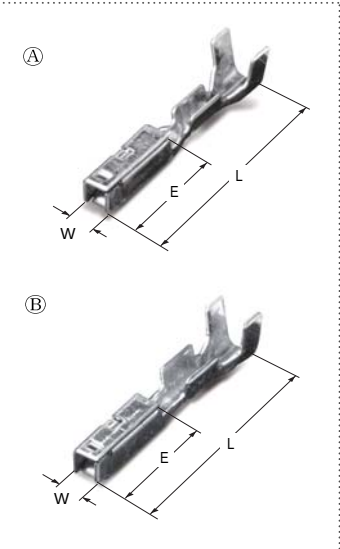
HYBRID CONNECTOR

0409 HOUSING

Poles	Plug housing for female terminal	
13	MG 653912  (090III 3P+040III 10P)	MG 654121  (090II 3P+040III 10P)
Poles	Plug housing for female terminal	Receptacle housing for male terminal
18	MG 654429  (090II 8P+040III 10P)	MG 644426 
24	MG 652911  (090III(ASC)+040III 14P)	MG 643577 

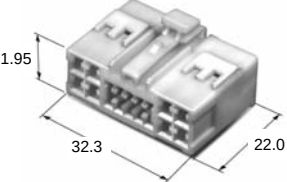
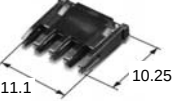


0509 TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material	Dimension(mm)			Type
	AWG	mm ²			Finish	L	E	W	
ST 730685-3	22-20	AVSS(CAVS) 0.3-0.5 CAVS 0.85	0.64	0.2	Copper Alloy Pre-Tin	14.9	6.2	1.8	(A)
ST 731010-3	24	CHFUS 0.22	0.64	0.2	Copper Alloy Pre-Tin	14.9	6.2	1.8	(B)

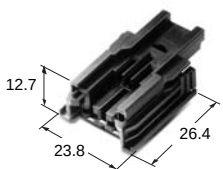
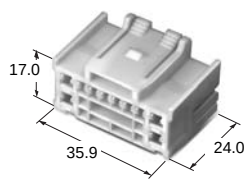
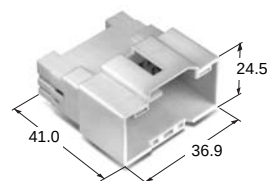
0509 HOUSING

Poles	Plug housing for female terminal	
18	MG 651380 	MG 631383 

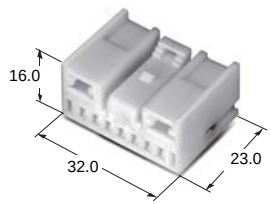
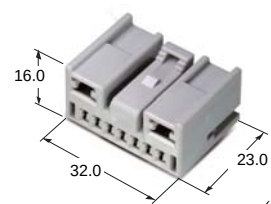
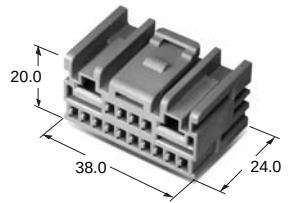
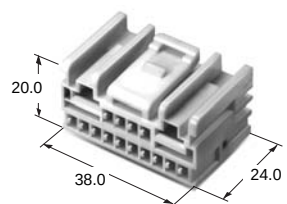
HYBRID CONNECTOR

- ▶ Double locking system eliminates terminal push-out (Housing lance, TPA)
- ▶ Stable/secure mating action between male and female connector
- ▶ Hybrid type connector using two different terminal Tab Size

060110 HOUSING

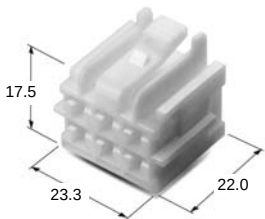
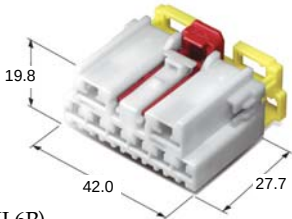
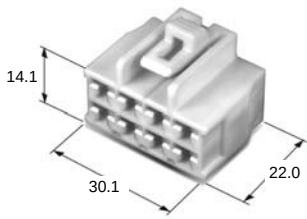
Poles	Plug housing for female terminal	Receptacle housing for male terminal
4	MG 615541  MG 635576(R/H)  (110 2P+060 2P) Suitable Terminal : 110:ST731343, 060:ST731344	
10	MG 655203  MG 655689(A Type)  (110 2P+060 8P)	MG 645346 
	MG 655690-40(B Type) 	

060250 HOUSING

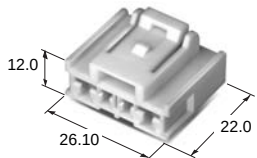
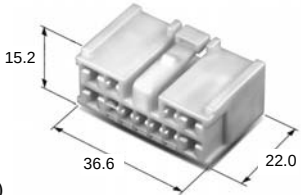
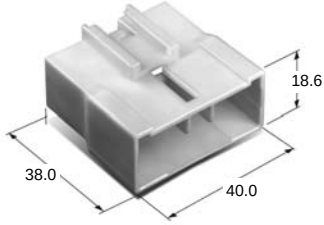
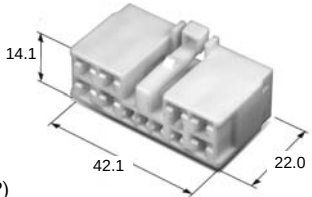
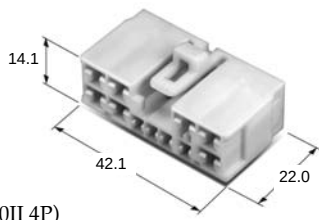
Poles	Plug housing for female terminal	
9	MG 655687(A Type) 	MG 655688-40(B Type)  (250 2P+060 7P)
16	MG 655141-41(A Type)  (250 2P+060 14P)	MG 655140(B Type)  (250 2P+060 14P)

HYBRID CONNECTOR

3118 / 187 HOUSING

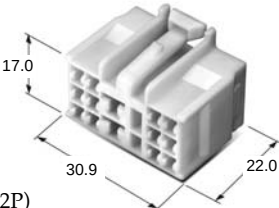
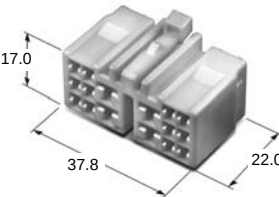
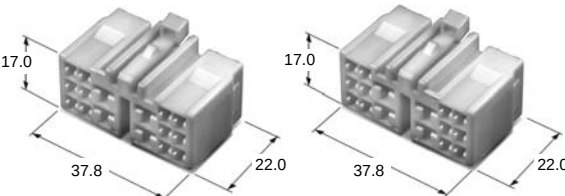
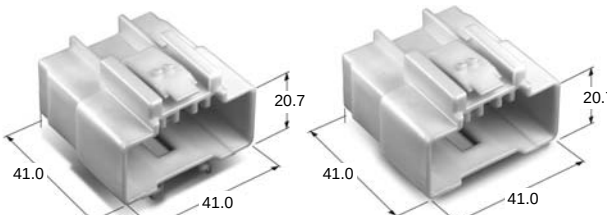
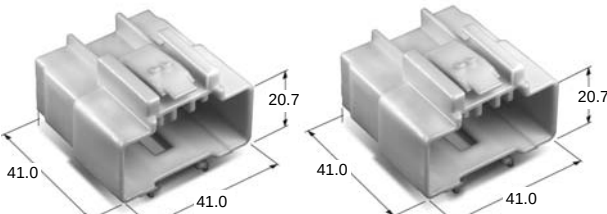
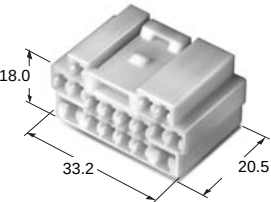
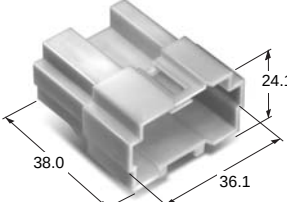
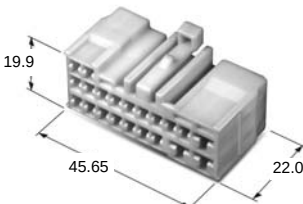
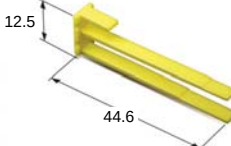
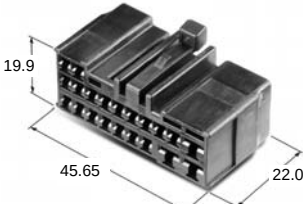
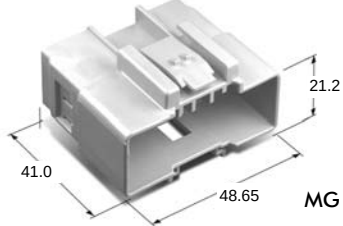
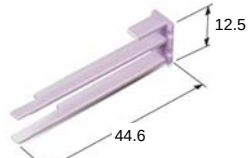
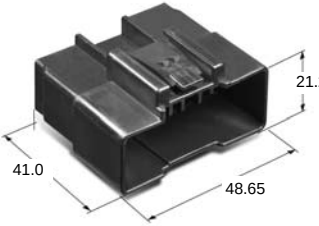
Poles	Plug housing for female terminal	
6	MG 653992(187)  Suitable Terminal : ST730644, ST730645, ST730646	
8	MG 650890(3118)  (312II 2P+187II 6P) Suitable Terminal : ST730642, ST730643, ST730644, ST730645, ST730646	MG 652220(187)  Suitable Terminal : ST730644, ST730645, ST730646

1809 HOUSING (187II+090II)

Poles	Plug housing for female terminal	Receptacle housing for male terminal
4	MG 614492  (187II 2P+090II 2P) Suitable Terminal : 090II-ST730675, ST730676, ST730677, ST731100 :187II-ST730644, ST730645, ST730646	
11	MG 651525  (187II 4P+090II 7P) Suitable Terminal : 090II-ST730675, ST730676, ST730677 :187II-ST730644, ST730645, ST730646	MG 641528 
Poles	Plug housing for female terminal	
11	MG 652719  (187II 7P+090II 4P)	MG 651917  (187II 7P+090II 4P)

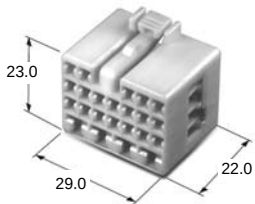
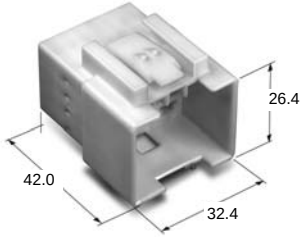
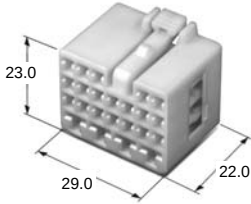
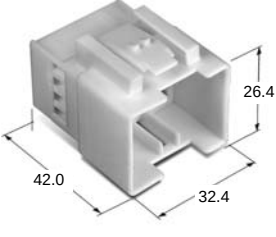
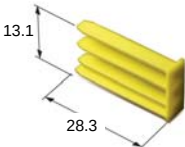
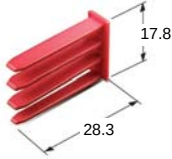
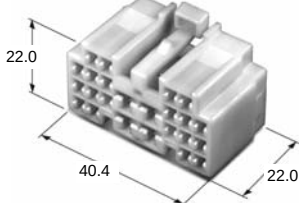
HYBRID CONNECTOR

1809 HOUSING (187II+090II)

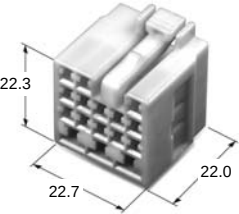
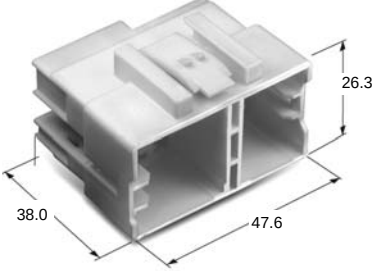
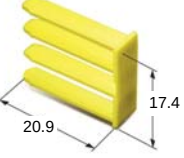
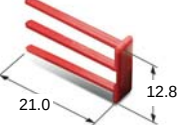
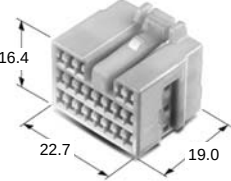
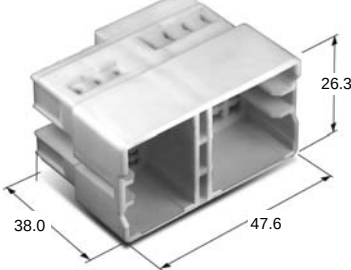
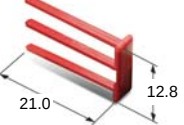
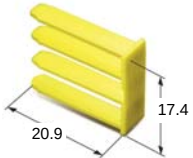
Poles	Plug housing for female terminal	Receptacle housing for male terminal
14	MG 651379  (187II 2P+090II 12P)	
16	MG 651006  (187II 4P+090II 12P) MG 651881(L) MG 651882-3(R)  (187II 4P+090II 12P)	MG 641007 MG 643624  MG 641883(L) MG 641884-3(R) 
17	MG 614680  (187 2P+090 15P)	MG 624681 
21	MG 612102(A)  MG 632131-3  MG 612103(B)  (187II 3P+090II 18P)	MG 622104(A)  MG 632106-9  MG 622105(B) 

HYBRID CONNECTOR

1809 HOUSING (187II+090II)

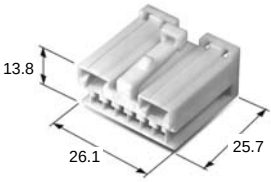
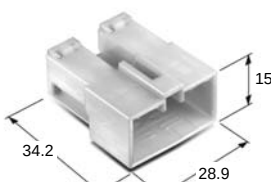
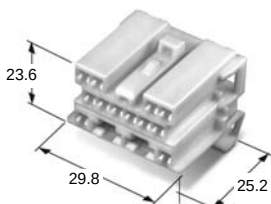
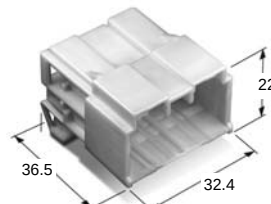
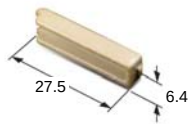
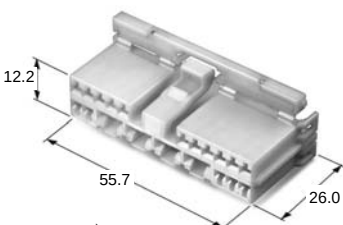
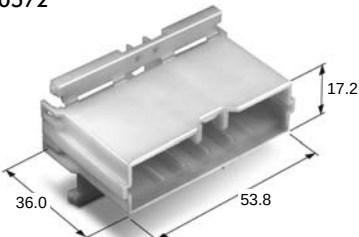
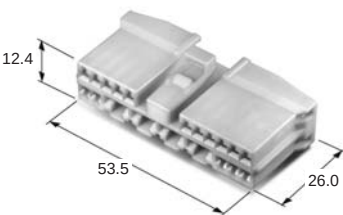
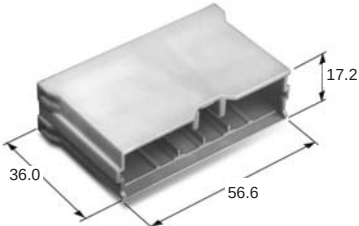
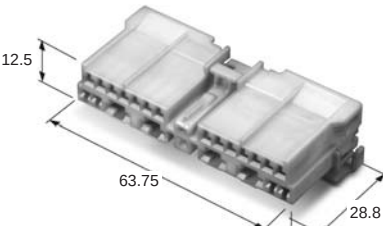
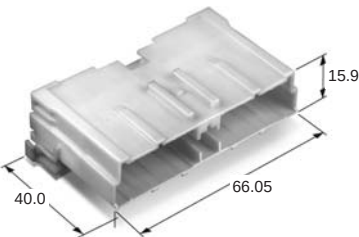
Poles	Plug housing for female terminal	Receptacle housing for male terminal
23	MG 612469 	MG 622471 
	MG 613342 	MG 623341 
	MG 632470-3  (187II 4P+090III(ASC) 19P) Suitable Terminal: ST 730775, ST 730776, ST 730777	MG 632472-1 
24	MG 652503  (187II 4P+090II 20P)	

180905 HOUSING (187II+090II+050)

Poles	Plug housing for female terminal	Poles	Receptacle housing for male terminal
16	MG 612391 	37	MG 622390 
	MG 632392-3  (187II 3P+090II 13P)		MG 631988-1 
21	MG 611987 		MG 623517 
	MG 631988-1  (050 21P)		MG 632392-3 

HYBRID CONNECTOR

2507 HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal	Rear Holder
8	MG 610802  (250 2P+070 6P)	MG 620803 	MG 630915-5 
14	MG 610567  (250 2P+070 12P)	MG 620568 	MG 630611-7 
20	MG 610571  (250 4P+070 16P)	MG 620572 	
22	MG 610916  (250 4P+070 16P)	MG 620918 	MG 630917-7(PLUG)  MG 630919-7(REC.) 
22	MG 611133  (250 4P+070 18P)	MG 621134 	MG 631135-7 

250 Suitable Terminal: ST 730467, ST 730468, ST 730469
ST 740470, ST 740471, ST 740472

HYBRID CONNECTOR

2507 HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
17	MG 610804 (250 3P+070 14P)	MG 620805 MG 630788-7
22	MG 610837 (250 3P+070 19P)	MG 620838
250 Suitable Terminal: ST 730267, ST 730268, ST 730269 ST 740253, ST 740254, ST 740255		

- These are high-density, multi-pole connectors for mid-current carried in automobile circuits.
- It is a hybrid series incorporating types as 250+070, 187II+090 II, Power and signal lines are separated to improve assembly efficiency.
- Rear holders are employed in double and triple locking structures to prevent incomplete terminal locking and non-insertion.
- Locking structures have been improved for easier connection with less effort.

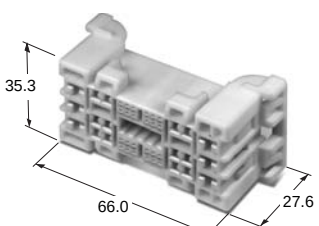
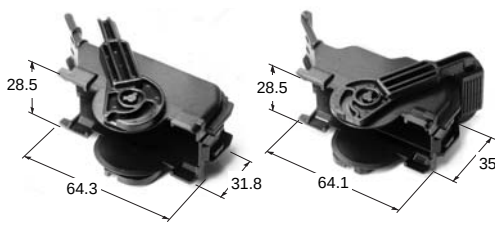
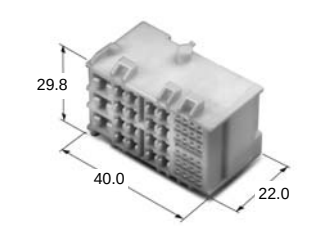
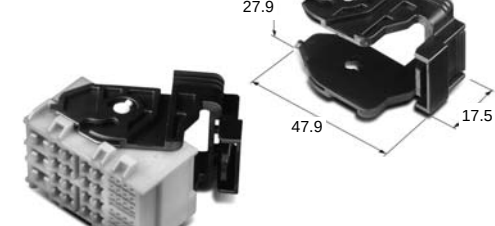
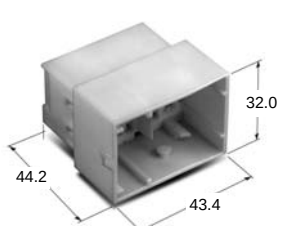
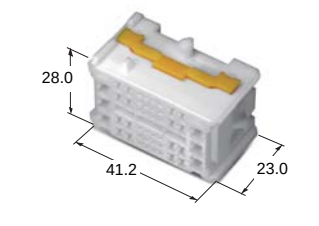
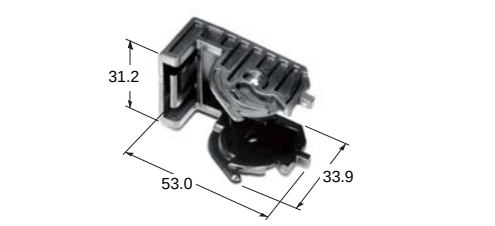
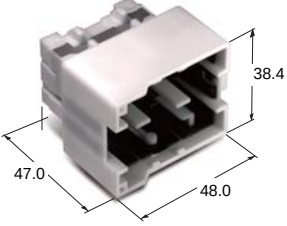
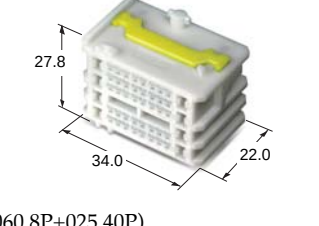
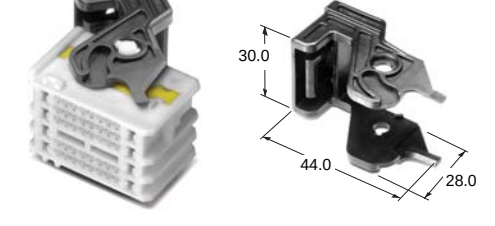
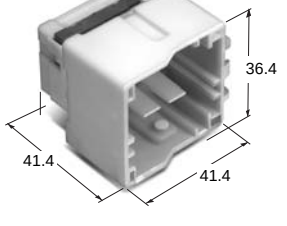
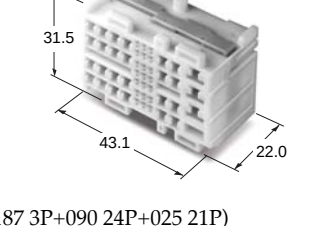
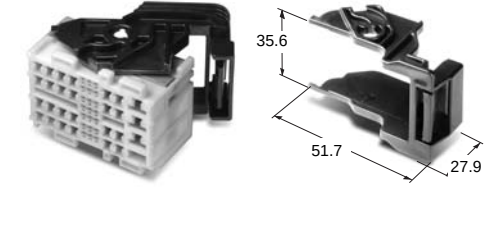
2509 / 3109 HOUSING

Poles	Plug housing for female terminal	
5	MG 612919 (250 2P+090III(ASC) 3P)	MG 632920 Suitable Terminal : ST 730921-3, 922-3, 923-3
6		MG 652037(.3109) (312II 2P+090II 4P)
8	MG 612493 (250 2P+090III(ASC) 6P)	MG 632494-3 Suitable Terminal : ST 730916

HYBRID CONNECTOR(LEVER TYPE)

- Hybrid type using 025+090+187, 025+060+110+250 terminals.
- Improved connector locking reliability with lever
- High productivity by easy connection at low force

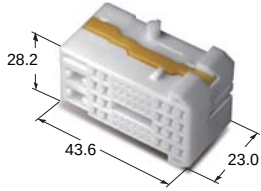
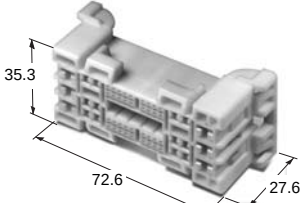
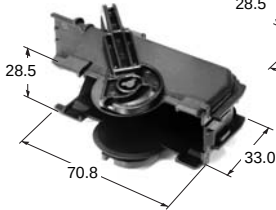
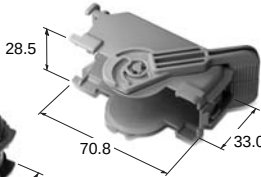
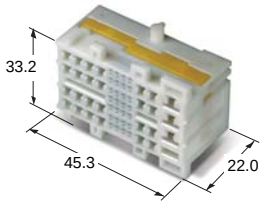
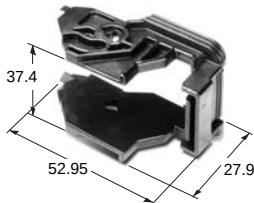
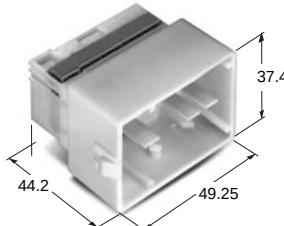
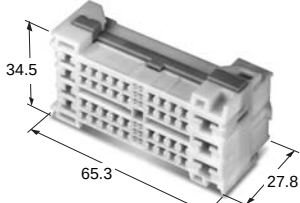
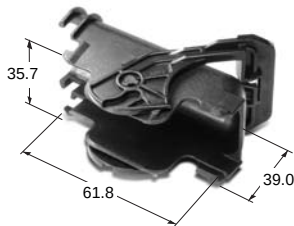
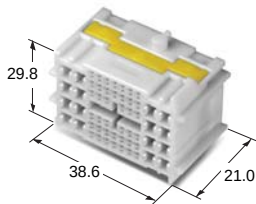
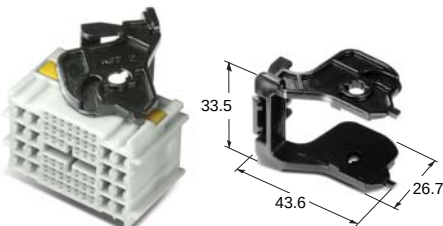
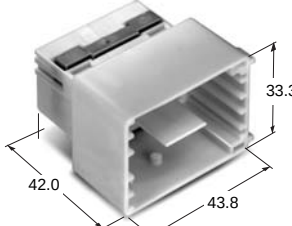
HOUSING (025 HYB)

Poles	Plug housing for female terminal	Lever	Receptacle housing for male terminal
42	MG 654621  (187 6P+090 12P+025 24P)	MG 664624 MG 665350 	
43	MG 654052  (187II 3P+090DTC 16P+025 24P)	MG 634049 	MG 644051 
46	MG 655683  (110 6P+060 16P+025 24P)	MG 635614 	MG 645740 
48	MG 655276  (060 8P+025 40P)	MG 635279 	MG 645273 
	MG 654907  (187 3P+090 24P+025 21P)	MG 634910 	

HYBRID CONNECTOR(LEVER TYPE)

- ▶ Hybrid type using 025+090+187+312, 025+060+110+250 terminals.
- ▶ Improved connector locking reliability with lever
- ▶ High productivity by easy connection at low force

HOUSING (025 HYB)

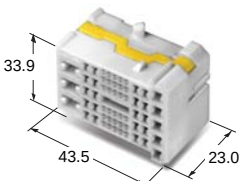
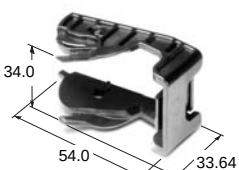
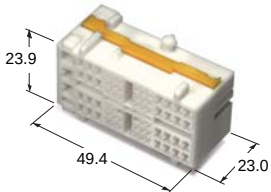
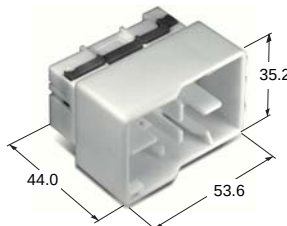
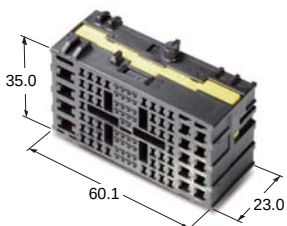
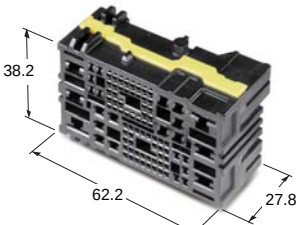
Poles	Plug housing for female terminal	Lever	Receptacle housing for male terminal
50	MG 655684  (250 2P+060 20P+025 28P)	MG 635616 	MG 645741 
54	MG 654627  (187 6P+090 12P+025 36P)	MG 664630 	MG 665096-4 
55	MG 654775  (187 3P+090 24P+025 28P)	MG 634779 	MG 644771 
56	MG 654903  (312 3P+187 4P+090 36P+025 12P)	MG 664931 	
56	MG 654767  (090 16P+025 40P)	MG 634770 	MG 644764 

HYBRID (LEVER)

HYBRID CONNECTOR(LEVER TYPE)

- Hybrid type using 025+060+110+250 terminals.
- Improved connector locking reliability with lever
- High productivity by easy connection at low force

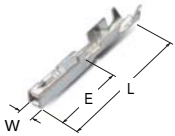
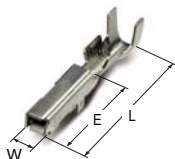
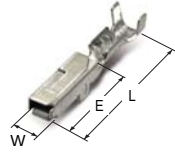
HOUSING (025 HYB)

Poles	Plug housing for female terminal	Lever	Receptacle housing for male terminal
58	MG 655437  (250 3P+110 5P+ 060 20P+025 30P)	MG 635440 	MG 645433 
65	MG 655685  (110 3P+060 28P+025 34P)	MG 635617 	MG 645742 
86	MG 655686  (250 4P+110 10P+060 42P+025 30P)	MG 635618 	MG 645743 
92	MG 655801  (312 4P+250 2P+110 10P+060 10P+025 66P)	MG 635708 	MG 645849 



HYBRID CONNECTOR(LEVER TYPE)

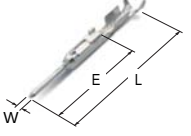
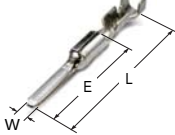
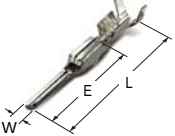
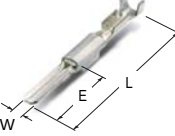
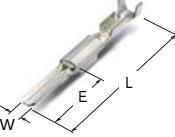
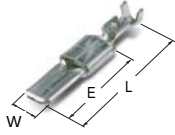
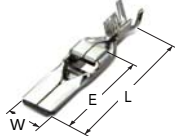
◀ SUITABLE TERMINAL(O25 HYB)

	Drawing	Series	Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)		
				AWG	mm ²		Thick.	Finish	L	€	W
FEMALE		O25	ST731053-3	22-20	AVSS 0.3~0.5	0.64	0.2	Copper Alloy Pre-Tin	15.5	7.0	1.5
			ST731054-3	24	CHFUS 0.22	0.64	0.2	Copper Alloy Pre-Tin	15.5	7.0	1.5
		N060	ST731334-3	24	CHFUS 0.22 AVSS 0.22	0.64	0.25	Copper Alloy Pre-Tin	16.2	8.5	2.2
			ST731335-3	22-20	AVSS 0.3~0.5	0.64	0.25	Copper Alloy Pre-Tin	16.2	8.5	2.2
			ST731336-3	18-16	AVSS 0.85~1.25	0.64	0.25	Copper Alloy Pre-Tin	16.2	8.5	2.2
		O60 (0.8T)	ST731267-3	24	CHFUS 0.22 AVSS 0.22	0.8	0.25	Copper Alloy Pre-Tin	19.0	10.0	2.5
			ST731268-3	22-20	AVSS 0.3~0.5	0.8	0.25	Copper Alloy Pre-Tin	19.0	10.0	2.5
			ST731269-3	18-16	AVSS 0.85~1.25	0.8	0.25	Copper Alloy Pre-Tin	19.0	10.0	2.5
		O90II	ST730677-3	14	AVSS 2.0	0.64	0.25	Copper Alloy Pre-Tin	18.0	9.0	2.9
		O90DTC	ST731108-3	24	CHFUS 0.22 AVSS0.22	0.6	0.25	Brass Pre-Tin	18.0	9.0	2.9
			ST731046-3	22-20	AVSS(CAVS) 0.3~0.5	0.6	0.25	Brass Pre-Tin	18.0	9.0	2.9
			ST731047-3	18-16	AVSS(CAVS) 0.85~1.25	0.6	0.25	Brass Pre-Tin	18.0	9.0	2.9
		I10	ST731279-3	22-20	AVSS 0.3~0.5	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0
			ST731280-3	18-16	AVSS 0.85~1.25	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0
			ST731281-3	14-12	AVSS 2.0 AVSS 3.0	0.8	0.32	Copper Alloy Pre-Tin	20.0	9.5	4.0
		I87II	ST730644-3	22-20	AVSS(CAVS) 0.3~0.5	0.8	0.4	Brass Pre-Tin	18.0	7.8	6.0
			ST730645-3	18-16	AVSS(CAVS) 0.85~1.25	0.8	0.4	Brass Pre-Tin	18.0	7.8	6.0
			ST730646-3	14-12	AVSS 2.0 AVS 3.0	0.8	0.4	Brass Pre-Tin	18.0	7.8	6.0
		250	ST731209-3	12-10	AVS 3.0 FLRY 2.5~4.0	0.8	0.4	Copper Alloy Pre-Tin	19.5	8.4	7.5
			ST731210-3	12-10	AVS 1.0-2.0	0.8	0.4	Copper Alloy Pre-Tin	19.5	8.4	7.5
			ST731211-3	12-10	AVS 0.5-0.85	0.8	0.4	Copper Alloy Pre-Tin	19.5	8.4	7.5
		312II	ST730642-3	14-12	AVSS 2.0~3.0	0.8	0.4	Brass Pre-Tin	23.4	7.8	9.2
			ST730643-3	10-8	AVS 5.0 AV 8.0	0.8	0.4	Brass Pre-Tin	23.4	7.8	9.2
			ST731112-3	14-12	AVS 2.0~3.0	0.8	0.4	Copper Alloy Pre-Tin	23.4	7.8	9.2

HYBRID (LEVER)

HYBRID CONNECTOR(LEVER TYPE)

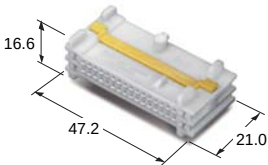
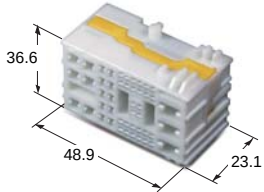
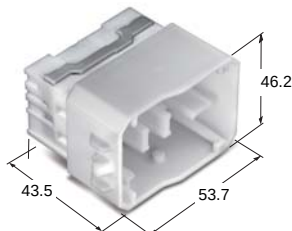
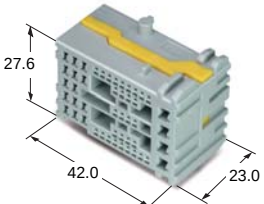
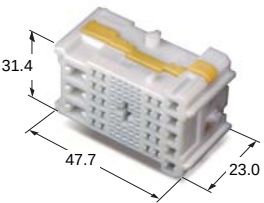
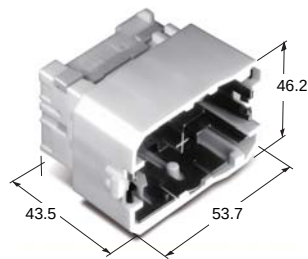
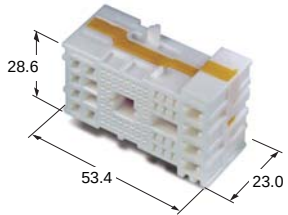
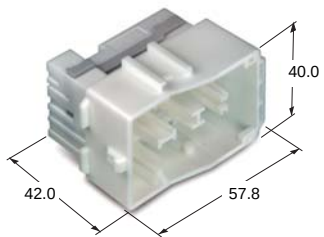
☛ SUITABLE TERMINAL(O25 HYB)

	Drawing	Series	Part No.	Wire Range		Tab		Material	Dimension(mm)		
				AWG	mm ²	Thick.	Thick.		L	W	W
MALE		O25	ST741055-3	22-20	AVSS 0.3~0.5	0.64	0.2	Brass Pre-Tin	22.6	13.8	0.64
			ST741056-3	24	CHFUS 0.22	0.64	0.2	Brass Pre-Tin	22.6	13.8	0.64
		NO60	ST741331-3	24	CHFUS 0.22 AVSS 0.22	0.64	0.3	Brass Pre-Tin	22.7	15.0	1.5
			ST741332-3	22-20	AVSS 0.3~0.5	0.64	0.3	Brass Pre-Tin	22.7	15.0	1.5
			ST741333-3	18-16	AVSS 0.85~1.25	0.64	0.3	Brass Pre-Tin	22.7	15.0	1.5
		O60 (0.8T)	ST741270-3	24	CHFUS 0.22 AVSS 0.22	0.8	0.3	Copper Alloy Pre-Tin	25.3	16.3	1.5
			ST741271-3	22-20	AVSS 0.3~0.5	0.8	0.3	Copper Alloy Pre-Tin	25.3	16.3	1.5
			ST741272-3	18-16	AVSS 0.85~1.25	0.8	0.3	Copper Alloy Pre-Tin	25.3	16.3	1.5
		O90II	ST740674-3	14	AVSS 2.0	0.64	0.3	Brass Pre-Tin	26.7	10.3	2.3
		O90DTC	ST741154-3	24	CHFUS 0.22	0.64	0.25	Brass Pre-Tin	27.0	10.3	2.3
			ST741155-3	22-20	AVS(CAVS) 0.3~0.5	0.64	0.25	Brass Pre-Tin	26.7	10.3	2.3
			ST741156-3	18-16	AVS(CAVS) 0.85~1.25	0.64	0.25	Brass Pre-Tin	26.7	10.3	2.3
		I10	ST741285-3	22-20	AVSS 0.3~0.5	0.8	0.32	Brass Pre-Tin	27.3	17.5	3.8
			ST741286-3	18-16	AVSS 0.85~1.25	0.8	0.32	Brass Pre-Tin	27.3	17.5	3.8
			ST741287-3	14-12	AVSS 2.0 AVSS 3.0	0.8	0.32	Brass Pre-Tin	27.3	17.5	3.8
		I87II	ST740631-3	22-20	AVSS(CAVS) 0.3~0.5	0.8	0.4	Brass Pre-Tin	26.7	16.8	4.8
			ST740632-3	18-16	AVSS(CAVS) 0.85~1.25	0.8	0.4	Brass Pre-Tin	26.7	16.8	4.8
			ST740633-3	14-12	AVSS 2.0 AVS 3.0	0.8	0.4	Brass Pre-Tin	26.7	16.8	4.8
		250	ST741206-3	12-10	AVS 3.0 FLRY 2.5~4.0	0.8	0.4	Brass Pre-Tin	28.1	17.4	6.3
			ST741207-3	12-10	AVS 1.0-2.0	0.8	0.4	Brass Pre-Tin	28.1	17.4	6.3
			ST741208-3	12-10	AVS 0.5-0.85	0.8	0.4	Brass Pre-Tin	28.1	17.4	6.3
		3I2II	ST740600-3	14-12	AVSS 2.0~3.0	0.8	0.4	Brass Pre-Tin	32.3	16.8	8.0
			ST740601-3	10-8	AVS 5.0 AV 8.0	0.8	0.4	Brass Pre-Tin	32.3	16.8	8.0

HYBRID CONNECTOR(LEVER TYPE)

- ▶ Hybrid type using 025II+060+110+250 terminals.
- ▶ Improved connector locking reliability with lever
- ▶ High productivity by easy connection at low force

HOUSING (025II HYB)

Poles	Plug housing for female terminal	Lever	Receptacle housing for male terminal
36	MG 655768  (060 4P+025II 32P)	MG 635676 	MG 645810 
47	MG 655703  (250 3P+110 6P+060 10P+025II 28P)	MG 635631 	MG 645751 
48	MG 655763  (110 4P+060 14P+025II 30P)	MG 635674 	MG 645805 
58	MG 655731  (250 3P+110 5P+060 20P+025II 30P)	MG 635656 	MG 645777 
64	MG 655789 	MG 635700 	MG 645836 

HYBRID (LEVER)

HYBRID CONNECTOR(LEVER TYPE)

- ▶ Hybrid type using 025II+060+110+250 terminals.
- ▶ Improved connector locking reliability with lever
- ▶ High productivity by easy connection at low force

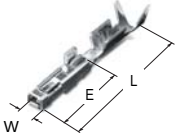
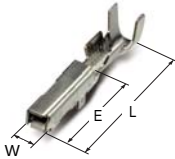
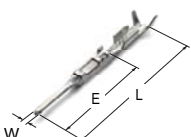
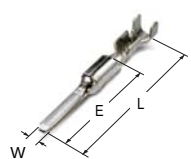
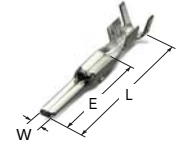
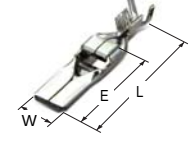


HOUSING (025II HYB)

Poles	Plug housing for female terminal	Lever	Receptacle housing for male terminal
68	MG 655765 (060 16P+025II 52P)	MG 635673 	MG 645807
	MG 655730 (110 4P+060 12P+025II 52P)	MG 635651 	MG 645775
	MG 655702 (110 8P+060 15P+025II 54P)	MG 635630 	MG 645756
82	MG 655805 	MG 635714 	MG 645853
	MG 655701 (250 4P+110 12P+060 14P+025II 70P)	MG 635629 	MG 645755

HYBRID CONNECTOR(LEVER TYPE)

◉ SUITABLE TERMINAL(O25II HYB)

	Drawing	Series	Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)		
				AWG	mm ²		Thick.	Finish	L	€	W
FEMALE		O25II	ST731374-3	24	CHFUS 0.22	0.64	0.2	Copper Alloy Pre-Tin	15.5	7.0	1.5
			ST731375-3	22-20	AVSS 0.3~0.5	0.64	0.2	Copper Alloy Pre-Tin	15.5	7.0	1.5
		NO60	ST731334-3	24	CHFUS 0.22 AVSS 0.22	0.64	0.25	Copper Alloy Pre-Tin	16.2	8.5	2.2
			ST731335-3	22-20	AVSS 0.3~0.5	0.64	0.25	Copper Alloy Pre-Tin	16.2	8.5	2.2
			ST731336-3	18-16	AVSS 0.85~1.25	0.64	0.25	Copper Alloy Pre-Tin	16.2	8.5	2.2
		I10	ST731279-3	22-20	AVSS 0.3~0.5	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0
			ST731280-3	18-16	AVSS 0.85~1.25	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0
			ST731281-3	14-12	AVSS 2.0 AVSS 3.0	0.8	0.32	Copper Alloy Pre-Tin	20.0	9.5	4.0
		250	ST731209-3	12-10	AVS 3.0 FLRY 2.5~4.0	0.8	0.4	Copper Alloy Pre-Tin	19.5	8.4	7.5
			ST731210-3	12-10	AVS 1.0-2.0	0.8	0.4	Copper Alloy Pre-Tin	19.5	8.4	7.5
			ST731211-3	12-10	AVS 0.5-0.85	0.8	0.4	Copper Alloy Pre-Tin	19.5	8.4	7.5
MALE		O25II	ST741345-3	24	CHFUS 0.22	0.64	0.25	Brass Pre-Tin	22.3	13.8	0.64
			ST741346-3	22-20	AVSS 0.3~0.5	0.64	0.25	Brass Pre-Tin	22.3	13.8	0.64
		NO60	ST741331-3	24	CHFUS 0.22 AVSS 0.22	0.64	0.3	Brass Pre-Tin	22.7	15.0	1.5
			ST741332-3	22-20	AVSS 0.3~0.5	0.64	0.3	Brass Pre-Tin	22.7	15.0	1.5
			ST741333-3	18-16	AVSS 0.85~1.25	0.64	0.3	Brass Pre-Tin	22.7	15.0	1.5
		I10	ST741285-3	22-20	AVSS 0.3~0.5	0.8	0.32	Brass Pre-Tin	27.3	17.5	3.8
			ST741286-3	18-16	AVSS 0.85~1.25	0.8	0.32	Brass Pre-Tin	27.3	17.5	3.8
			ST741287-3	14-12	AVSS 2.0 AVSS 3.0	0.8	0.32	Brass Pre-Tin	27.3	17.5	3.8
		250	ST741206-3	12-10	AVS 3.0 FLRY 2.5~4.0	0.8	0.4	Brass Pre-Tin	28.1	17.4	6.3
			ST741207-3	12-10	AVS 1.0-2.0	0.8	0.4	Brass Pre-Tin	28.1	17.4	6.3
			ST741208-3	12-10	AVS 0.5-0.85	0.8	0.4	Brass Pre-Tin	28.1	17.4	6.3

HYBRID(LEVER)

HYBRID CONNECTOR(LEVER TYPE)

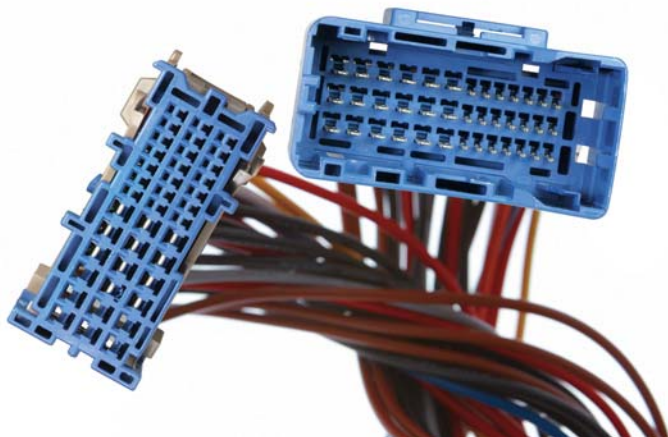
- ▶ Double locking function to prevent incomplete terminal connection.
- ▶ Improved connector locking reliability with lever
- ▶ High productivity by easy connection at low force



HOUSING (O90 HYB)

Poles	Plug housing for female terminal	Lever
28	MG 654642	MG 634645
34	MG 654793	MG 634796
39	MG 654797 (187 II 6P+090 33P)	
48	MG 654911 (187 II 3P+090 45P)	MG 634914

HYBRID CONNECTOR(LEVER TYPE)



Multi-pole & Hybrid Type
 Convenient for the separate /simultaneous
 connection of power supply & signal
 Lever type - improved connection

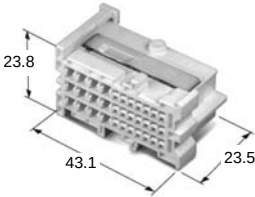
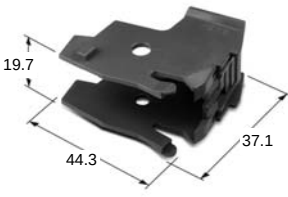
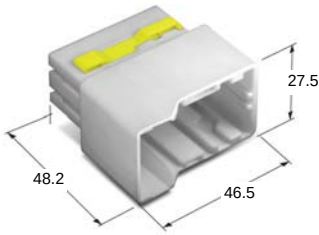
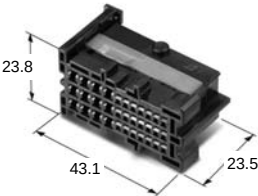
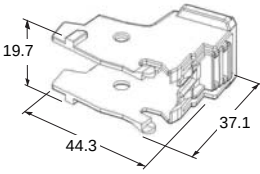
HYBRID(LEVER)

HOUSING

Poles	Plug housing for female terminal	Lever	Receptacle housing for male terminal
30	MG 653512 	MG 633515-40 	
	(187II 6P+090III(ASC) 24P) MG 653504 	MG 633510-40 	MG 643507
31	(187II 3P+090III(ASC) 12P+040III 16P)		

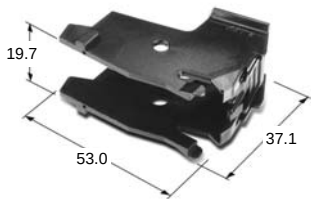
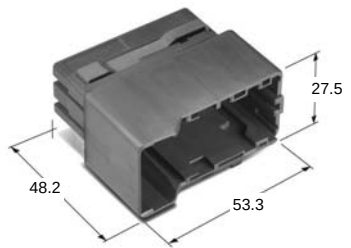
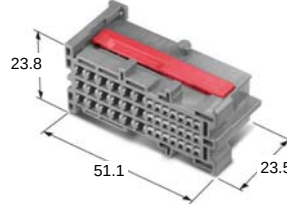
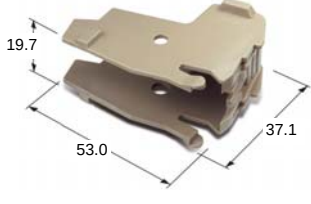
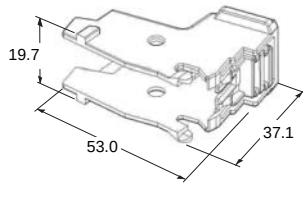
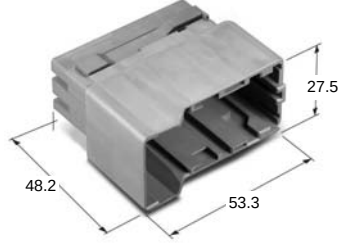
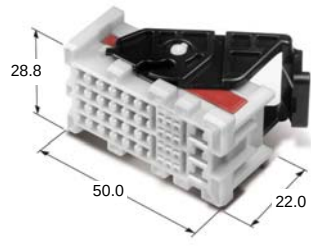
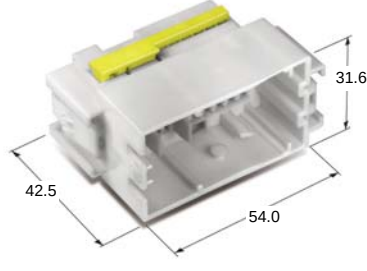
HYBRID CONNECTOR(LEVER TYPE)

HOUSING

Poles	Plug housing for female terminal	Lever	Receptacle housing for male terminal
33	MG 653559  23.8 43.1 23.5	MG 633182-4  19.7 44.3 37.1	MG 643183  27.5 48.2 46.5
	(090III(ASC) 12P+040III 21P) MG 653561  23.8 43.1 23.5	 MG 634763-5  19.7 44.3 37.1	MG 643396  27.5 48.2 46.5
	(090III(ASC) 12P+040III 21P)		

HYBRID CONNECTOR(LEVER TYPE)

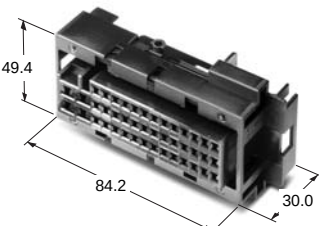
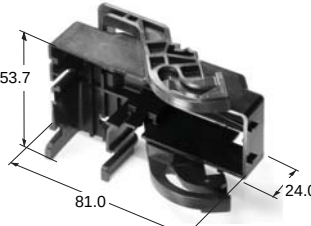
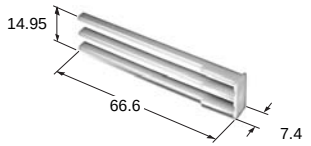
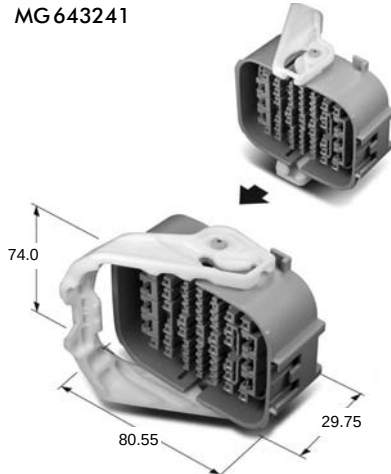
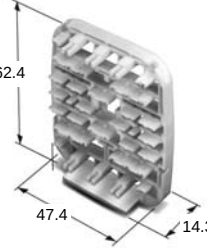
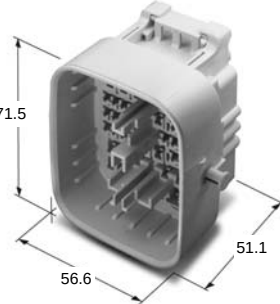
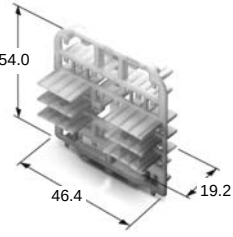
HOUSING

Poles	Plug housing for female terminal	Lever	Receptacle housing for male terminal
39	MG 653563-4  (090III(ASC) 18P+040III 21P)	MG 633567  	MG 643206-4 
	MG 653565-2  (090III(ASC) 18P+040III 21P)	MG 633786-7  MG 634762-5 	MG 643392-2 MG 643416-2(CLIPTYPE) 
	MG 653930  (187II 3P+090II 24P+040III 12P)	MG 633928  	MG 643929 

HYBRID(LEVER)

HYBRID CONNECTOR(LEVER TYPE)

HOUSING

Poles	Plug housing for female terminal	Lever	Receptacle housing for male terminal
43	MG 654020  49.4 84.2 30.0	MG 664044  53.7 81.0 24.0 MG 634042  14.95 66.6 7.4	
	(187II 4P+090II 39P)		
Receptacle housing for male terminal			
52	MG 643241  74.0 80.55 29.75 MG 633244(R/H)  62.4 47.4 14.3	MG 613245  71.5 56.6 51.1 MG 633246(R/H)  54.0 46.4 19.2	
	(RK 26P+RS 20P+58X 6P)		

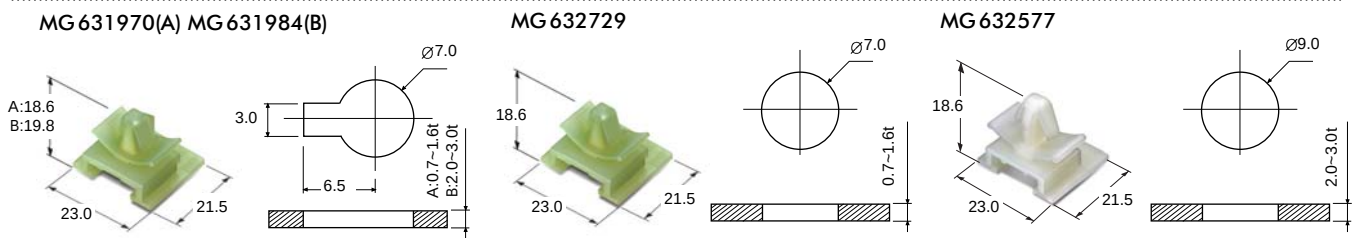
HYBRID CONNECTOR(LEVER TYPE)

- ▶Hybrid type using 040 III+090 II+187 II terminals.
- ▶Double locking function to prevent incomplete terminal connection.
- ▶Improved connector locking reliability with lever type.
- ▶High productivity by easy connection at low force.



HYBRID(LEVER)

CLIP



HOUSING(040III+090II+187II)

Poles	Plug housing for female terminal	Receptacle housing for male terminal
32	MG 651711 (090II 12P+040III 20P)	MG 641707
38	MG 652400 (187II 6P+090II 20P+040III 12P)	MG 642397

HYBRID WP CONNECTOR

- Hybrid type using 060+110, 060+375 terminals.
- Improved connector locking reliability with lever
- High productivity by easy connection at low force



HOUSING (060110 WP)

Poles	Plug housing for female terminal	Receptacle housing for male terminal	Clip
6	MG 645744 		
	(110 3P+060 3P) Suitable Wire Seal: MG 685400(110) MG 645762 	MG 655715 	
16	MG 645758 	MG 655704 	MG 635681
Suitable Terminal: 060- ST 731367, ST 731368, ST 731369 110- ST 731152, ST 731153			

HOUSING (N060375 WP)

Poles	Plug housing for female terminal	Receptacle housing for male terminal	Rear Holder
7	MG 645785 	MG 655740 	MG 635662
Suitable Terminal: 060F- ST 731367, 368, 369 060M- ST 741340, 341, 342 375F- ST 731392-S, 7116-5625-06(YZK) 375M- ST 741353-S, 7114-5623-06(YZK)			

FAKRA HYBRID CONNECTOR(LEVER TYPE)

☛ SUITABLE TERMINAL

FEMALE	025II : ST731374-3, ST731375-3
	N060 : ST731334-3, ST731335-3, ST731336-3
	110 : ST731279-3, ST731280-3, ST731281-3

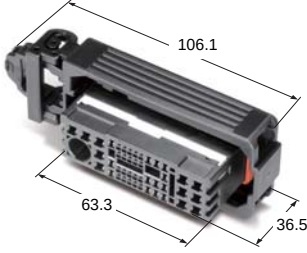
MALE	025II : ST741345-3, ST741346-3
	N060 : ST741331-3, ST741332-3, ST741333-3
	110 : ST741285-3, ST741286-3, ST741287-3

☛ FAKRA TERMINAL

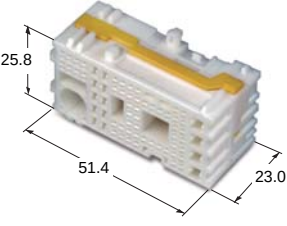
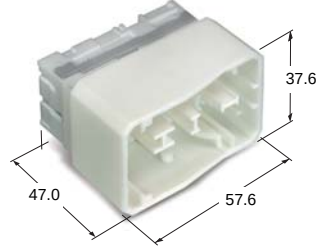
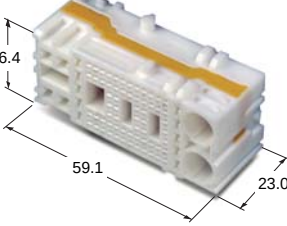
Ø3.0 FAKRA STRAIGHT JACK			
Poles	Description	Drawing	Part No.
01	JACK		KR20201-20
	TERMINAL		KR20301-20
	SLEEVE		KR00401-20

Ø3.0 FAKRA STRAIGHT PLUG			
Poles	Description	Drawing	Part No.
01	PLUG		KR30201-20
	TERMINAL		KR30301-20
	SLEEVE		KR00401-20

☛ HOUSING (FRONT DOOR)

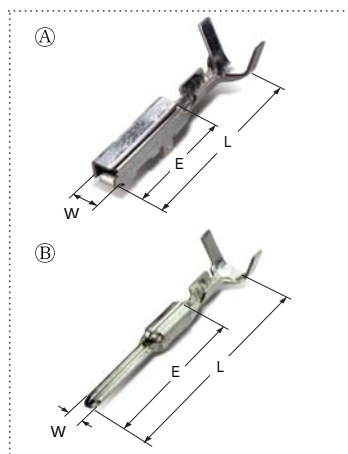
Poles	Plug housing for female terminal	Receptacle housing for male terminal
45	MG 655808  (025 20P+N060 13P+110 11P+FAKRA 1P)	MG 645857 

☛ HOUSING (MULTI BOX)

Poles	Plug housing for female terminal	Lever	Receptacle housing for male terminal
67	MG 655802  (025 52P+N060 10P+110 4P+FAKRA 1P)	MG 635709 	MG 645850 
79	MG 655807  (025 63P+N060 10P+110 4P+FAKRA 2P)	MG 635713 	MG 645856 

FAKRA HYBRID CONNECTOR(LEVER TYPE)

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST731368-3	22-20	AEXF(AVSSXF) 0.3~0.5	0.64	0.25	Copper Alloy Pre-Tin	17.5	8.5	2.2	(A)
ST731369-3	18-16	AEXF(AVSSXF) 0.85~1.25	0.64	0.25	Copper Alloy Pre-Tin	17.5	8.5	2.2	
ST741341-3	22-20	AEXF(AVSSXF) 0.3~0.5	0.64	0.3	Brass Pre-Tin	24.7	15.7	1.5	(B)
ST741342-3	18-16	AEXF(AVSSXF) 0.85~1.25	0.64	0.3	Brass Pre-Tin	24.7	15.7	1.5	

WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Type
MG 685390	AVSSXF 0.3~0.5	Silicone	Red	(C)
MG 685391	AEXF 0.3~0.5 AVSSXF 0.85~1.25	Silicone	Green	
MG 685392	AEXF 0.85	Silicone	Black	
MG 685393	AEXF 1.25	Silicone	Gray	
MG 685394	Dummy Seal	Silicone	Green	(D)
MG 685476	Dummy Seal	Silicone	Green	

(C)

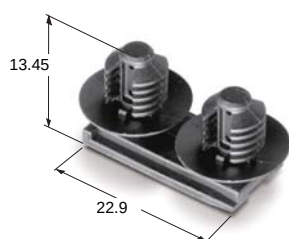


(D)



CLIP

MG 635719



FAKRA TERMINAL

Ø 3.0 FAKRA STRAIGHT JACK			
Poles	Description	Drawing	Part No.
01	JACK		KR20201-20
	TERMINAL		KR20301-20
	SLEEVE		KR00401-20

Ø 3.0 FAKRA STRAIGHT PLUG			
Poles	Description	Drawing	Part No.
01	PLUG		KR30201-20
	TERMINAL		KR30301-20
	SLEEVE		KR00401-20

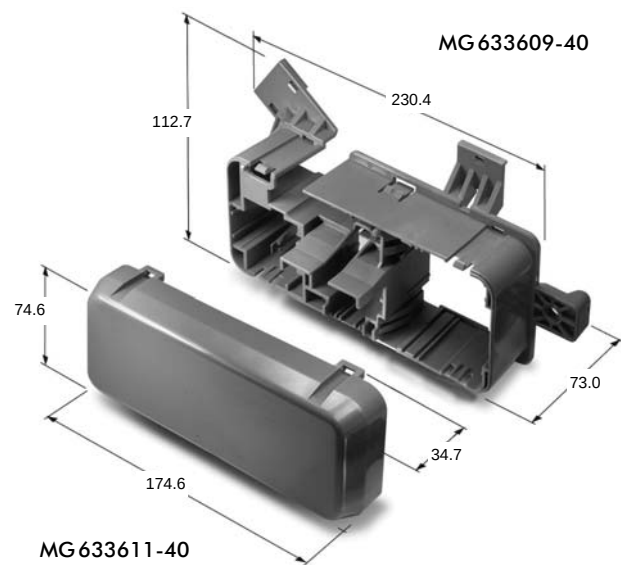
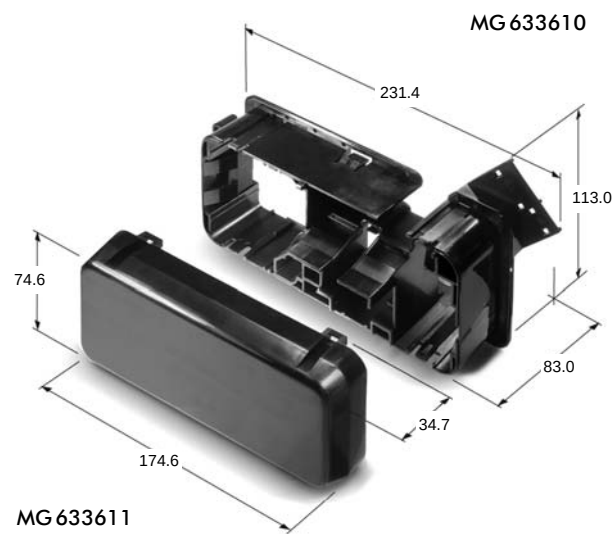
HOUSING (O60 WP)

Poles	Plug housing for female terminal	Receptacle housing for male terminal
15	MG 645872 (N060 14P+FAKRA 1P)	MG 655819

HYBRID Bolt'g CONNECTOR

HOUSING

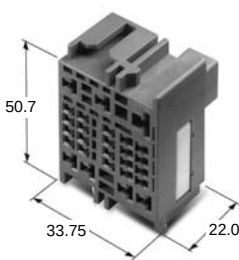
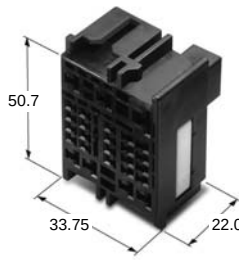
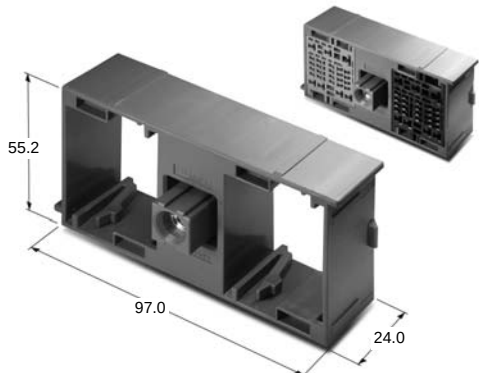
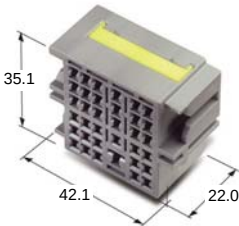
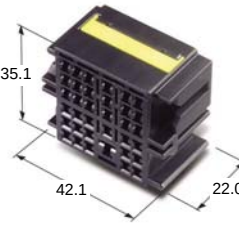
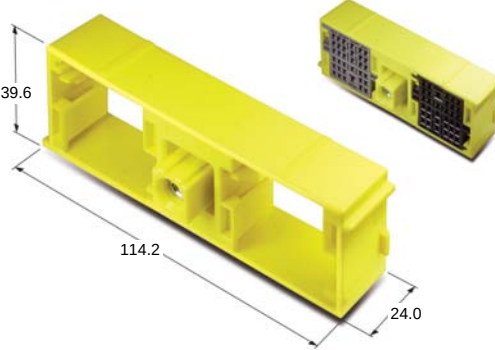
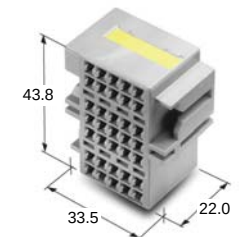
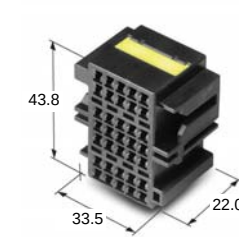
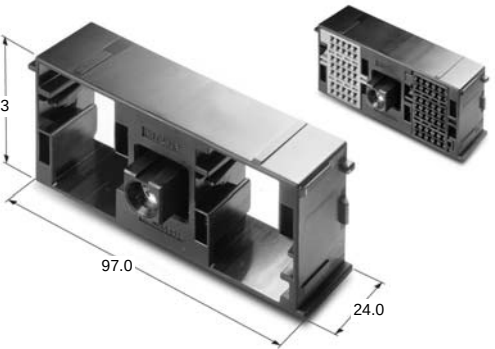
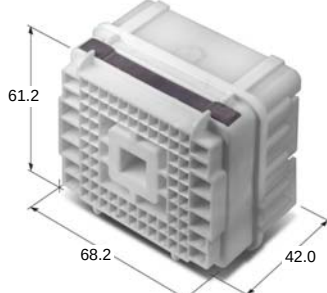
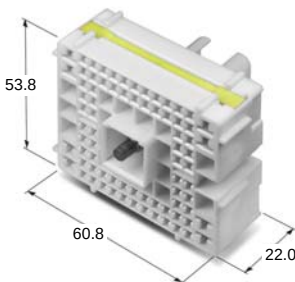
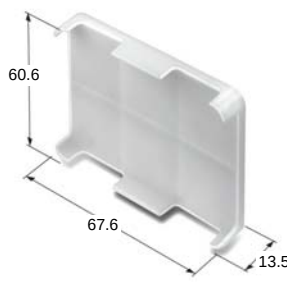
HYBRID Bolt'g Connector



HYBRID BOLT'G

HYBRID Bolt'g CONNECTOR

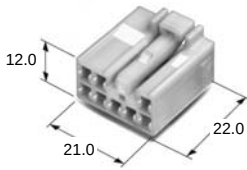
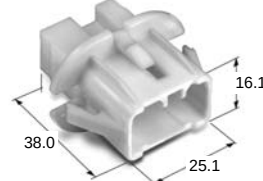
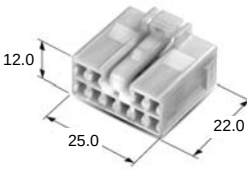
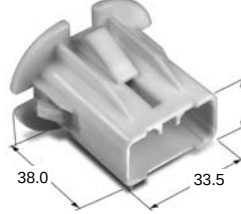
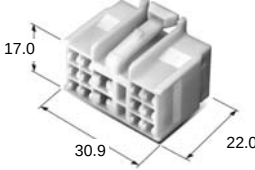
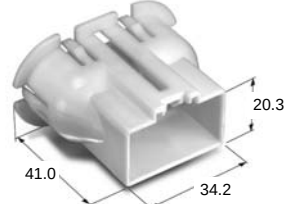
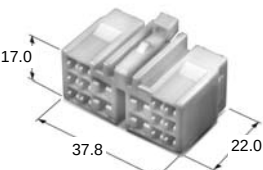
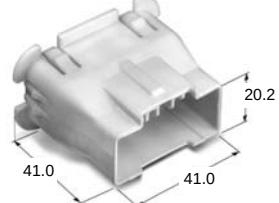
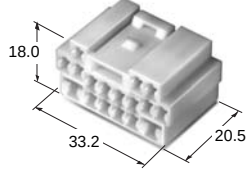
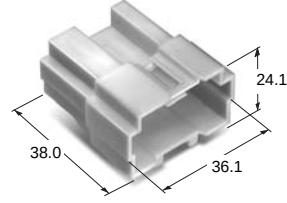
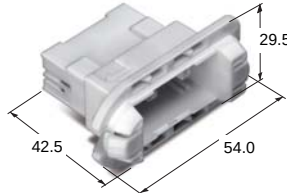
HOUSING

Poles	HYBRID Bolt'g Connector		
54	MG 653600-41  (312II 1P+187II 6P+090II 20P)	MG 653599  (312II 1P+187II 6P+090II 20P)	MG 663593-40 
70	MG 653595-41  (187II 1P+090II 34P)	MG 653596  (187II 1P+090II 34P)	MG 663591-3 
70	MG 653602-41  (090II 35P)	MG 653601  (090II 35P)	MG 663594 
76	MG 643615  (187II 8P+090II 68P)	MG 653612  (187II 8P+090III(ASC) 68P)	MG 633997 

DOOR CONNECTOR

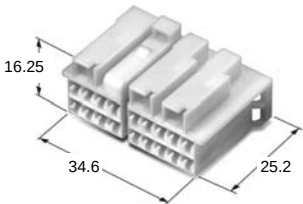
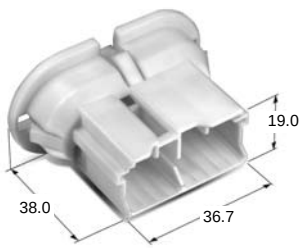
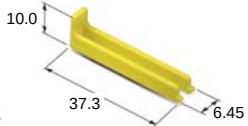
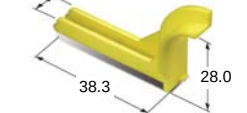
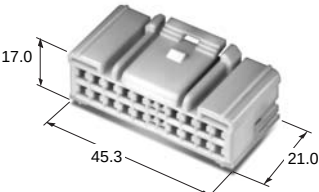
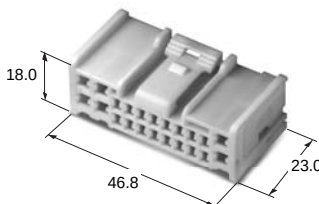
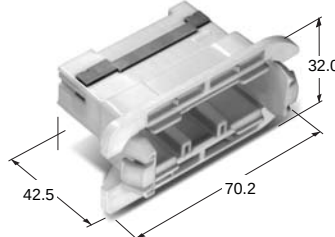
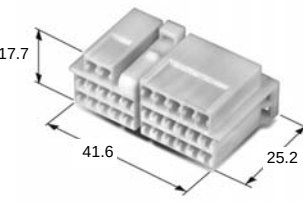
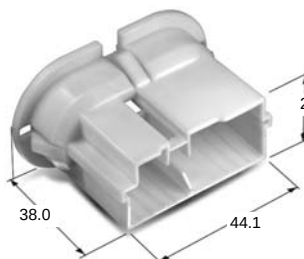
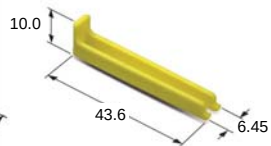
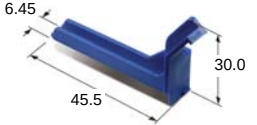
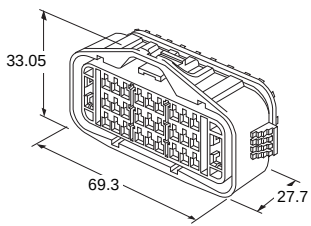
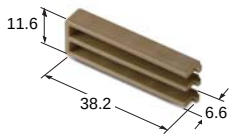
- Multi-pole, non waterproof connector linking wire harness between the body panel and the door panel of an automobile.
- Double Locking system with a separated Rear Holder prevents improper locking of terminal when inserted into housing.
- By using Grommet, it is water resistance although it is not waterproof.
- Significantly improved wire installment and assembly efficient between body panel and door panel.

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
8	MG 651050  (090II 8P)	MG 641763 
10	MG 651056  (090II 10P)	MG 622072 MG 632073-3  
14	MG 651379  (187II 2P+090II 12P)	MG 641814 
16	MG 651882-3(R)  (187II 4P+090II 12P)	MG 642570 
17	MG 614680  (187II 2P+090 15P)	MG 624681 
18	MG 655696  (110 4P+060 8P+025 6P)	MG 645749 

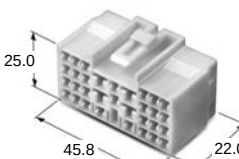
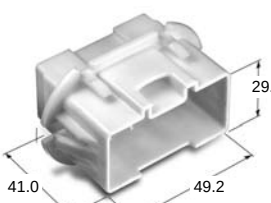
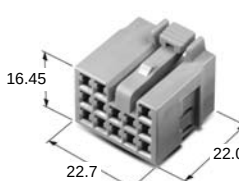
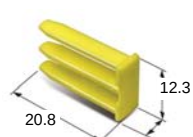
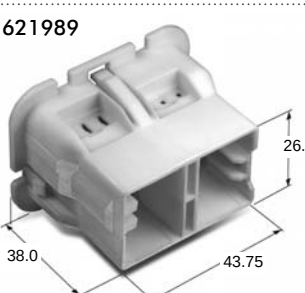
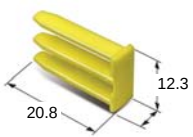
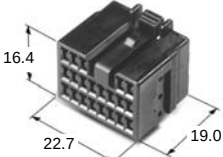
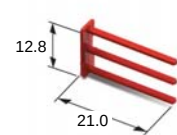
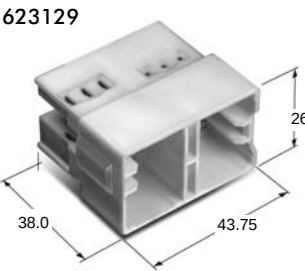
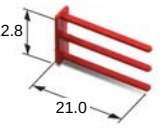
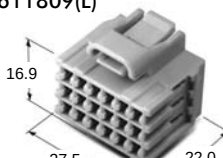
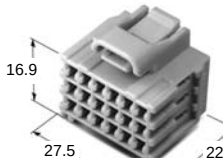
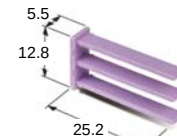
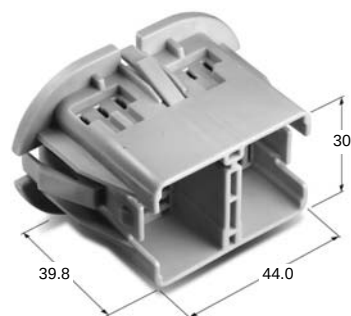
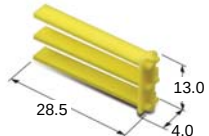
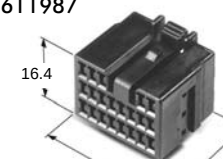
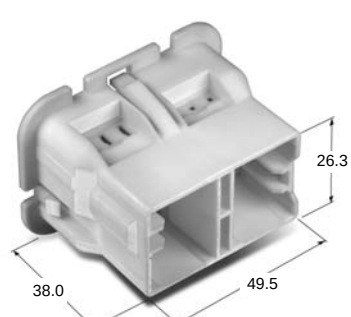
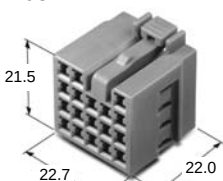
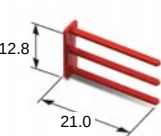
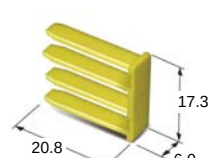
DOOR CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
21	MG 610688  16.25 34.6 25.2	MG 620689  38.0 36.7 19.0
	MG 630690-3  10.0 37.3 6.45 (118 3P+070 18P)	MG 630920-2  10.0 38.3 6.45 MG 630691-3  38.3 28.0 6.45
22	MG 654783  17.0 45.3 21.0 (090II 18P+040III 4P)	MG 644780  32.0 42.5 70.8
	MG 655444  18.0 46.8 23.0 (110 6P+060 16P)	MG 645441  32.0 42.5 70.2
29	MG 610692  17.7 41.6 25.2	MG 620693  38.0 44.1 20.7
	MG 630694-3  10.0 43.6 6.45 (090 7P+070 22P)	MG 630921-2  6.45 45.5 10.0 MG 630695-3  6.45 45.5 30.0
31	MG 640819-5  33.05 69.3 27.7	MG 650817  28.6 58.5 35.7
	MG 630820-7  11.6 38.2 6.6 (118 4P+070 27P)	

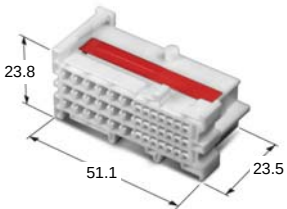
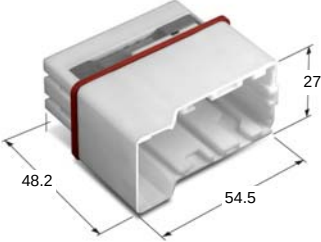
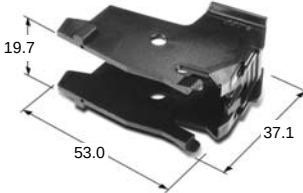
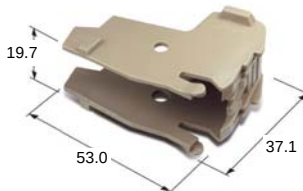
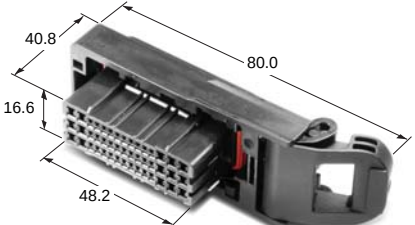
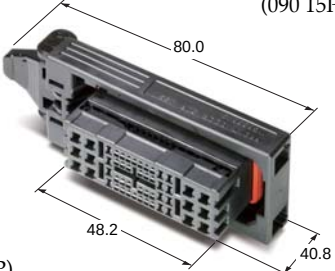
DOOR CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
32	MG 651013  (187II 4P+090II 28P)	MG 641016 
34	MG 611985-41  MG 631986-3  (090II 13P)	MG 621989  MG 631986-3 
36	MG 611987  MG 631988-1  (050 21P)	MG 623129  MG 631988-1 
39	MG 611809(L)  MG 611810-41(R)  MG 631811-9  (090II 18P)	MG 621807  MG 631808-3 
	MG 611987  (050 21P)	MG 622406 
	MG 612408-41  (090II 18P)	MG 631988-1  MG 632407-3 

DOOR CONNECTOR

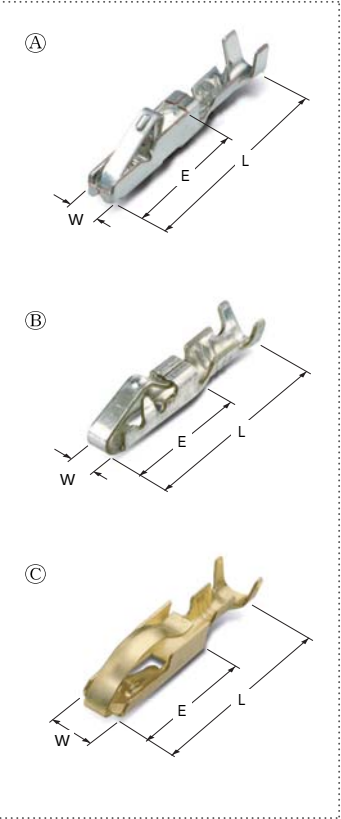
HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
39	MG653563  23.8 51.1 23.5	MG 643174  48.2 54.5 27.5
	MG 633567(LEVER)  19.7 53.0 37.1 MG 633786-7(LEVER)  19.7 53.0 37.1	MG 633337(PLATE-A)  36.5 MG 633338(PLATE-B)  36.5
45	(090III(ASC) 18P+040III 21P) MG 644390  40.8 80.0 16.6 48.2 MG644902  80.0 48.2 40.8 (090 15P+040 30P)	MG 654391  22.2 47.9 53.8
50	MG 655649  107.4 56.8 34.0 (110 12P+060 12P+025II 26P)	MG 645655  27.4 47.4 69.6 Wire Cover RH : MG 635590 Wire Cover LH : MG 635591

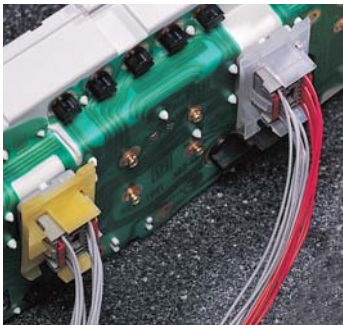
025II Female Terminal: ST731374,ST731375 025II male Terminal: ST741345, ST741346

CLUSTER CONNECTOR

TERMINAL



Part No.	Wire Range		Thick.	Material	Dimension(mm)			Type
	AWG	mm ²		Finish	L	€	W	
ST760515-3	22-20	AVSS 0.3~0.5	0.3	Copper Alloy Pre-Tin	20.8	11.7	2.6	Ⓐ
ST760516-3	18-16	AVSS 0.85-1.25	0.3	Copper Alloy Pre-Tin	20.8	11.7	2.6	
ST780392-3	22-18	AVSS 0.3-0.85	0.4	Brass Pre-Tin	18.6	10.6	3.0	Ⓑ
ST780395-3	16-14	AVSS 1.25-2.0	0.4	Brass Pre-Tin	18.6	10.6	3.0	
ST760271-1	22-18	AVSS 0.3-0.85	0.3	Brass	23.0	14.2	4.4	Ⓒ
ST760271-3				Pre-Tin				
ST760272-1	16-14	AVSS 1.25-2.0	0.3	Brass	23.0	14.2	4.4	
ST760272-3				Pre-Tin				



- These are connectors for automobile integrated instrument panels, and are suitable for parts using film PCB.
- Detachable rear holders are employed for secondary lock structures to prevent incomplete terminal locking and non-insertion.
- A wide variety of mounting holders is available, aiding improvement in instrument panel circuit design and assembly efficiency.

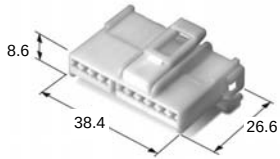
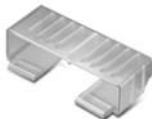
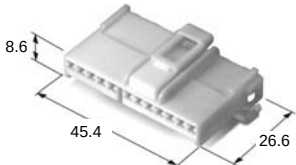
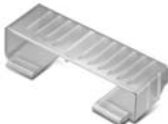
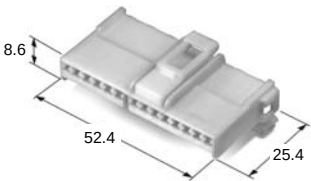
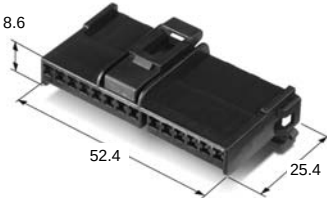
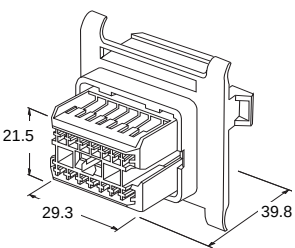
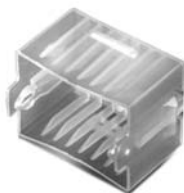
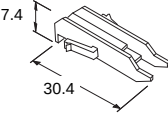
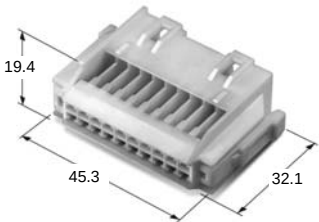
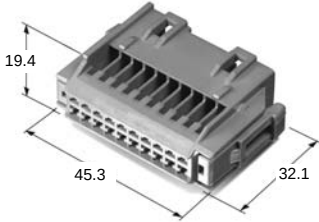
HOUSING

Poles	Plug housing for female terminal	Poles	Plug housing for female terminal
6	MG 630093 	8	MG 630077
	MG 630085 		MG 630080

Suitable Terminal: ST780392-3, ST780395-3

CLUSTER CONNECTOR

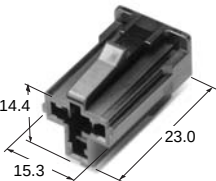
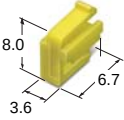
HOUSING

Poles	PLUG A TYPE	PLUG B TYPE	PLUG C TYPE	CAP
10	MG 630831 			MG 631971 
12	MG 630832 			MG 631972 
14	MG 630674 	MG 630673 		MG 631973 
17	MG 660583-4 	MG 660584-4 	MG 661543-4 	MG 630535 
	MG 630466-3 	MG 630465-1 		
20	MG 630774 	MG 630775-4 		MG 631974 
	MG 630776-7 			MG 630777 

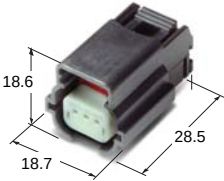
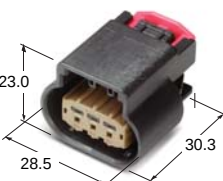
GS SERIES CONNECTOR

► Double locking system eliminates terminal push-out (Housing lance, TPA)

GS SERIES(NON WATERPROOF)

Poles	Plug housing for female terminal	Suitable Terminal
3	MG 644438 	12191811-1812(DELPHI)
8	MG 644437 	12191811-1812(DELPHI)
3	MG 614436  MG 634588(TPA) 	15304710-4712(DELPHI)

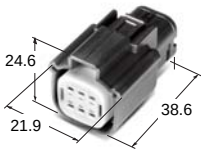
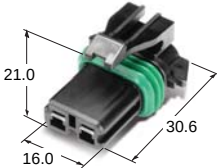
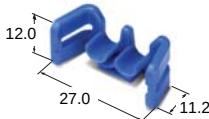
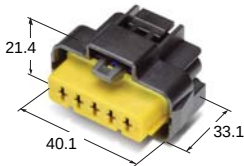
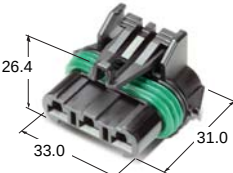
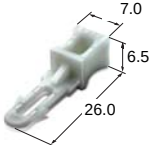
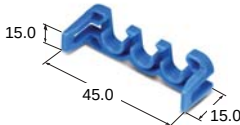
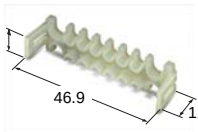
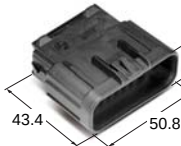
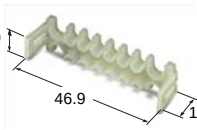
GS SERIES(WATERPROOF)

Poles	Plug housing for female terminal	Suitable Terminal
3	MG 645080 	7116-4618-02(YAZAKI)
3	MG 644167  MG 634546(R/H) 	12191818-1819(DELPHI)
4	MG 644170  MG 634547(R/H) 	12191818-1819(DELPHI)

GS SERIES CONNECTOR

► Double locking system eliminates terminal push-out (Housing lance, TPA)

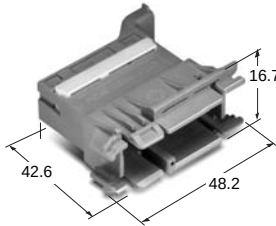
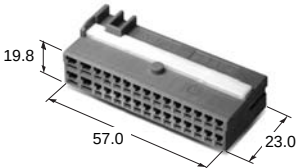
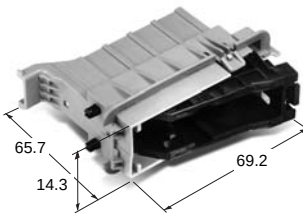
GS SERIES(WATERPROOF)

Poles	Plug housing for female terminal	Receptacle housing for Male terminal	Suitable Terminal
6	MG 645107 	MG 655111 	F:33012-2002(MOLEX) M:33000-0002(MOLEX)
150WP			
2	MG 654446  MG 634604(CPA)  MG 634605(R/H) 		15304718-4720(DELPHI)
280WP			
5	MG 645104 		211CC3S1161(FCI) 211CC3S2161(FCI)
280WP			
3	MG 654447  MG 634608(CPA)  MG 634609(R/H) 		12052456-2457(DELPHI)
630WP			
16	MG 655099  MG 634601(R/H) 	MG 654442  MG 634601(R/H) 	F:12191818-1819(DELPHI) 15304718-4720(DELPHI) M:15326268-6269(DELPHI) 15304730-4732(DELPHI)
150280WP			

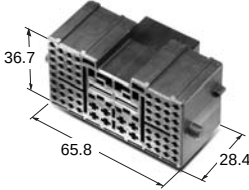
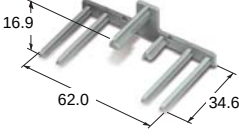
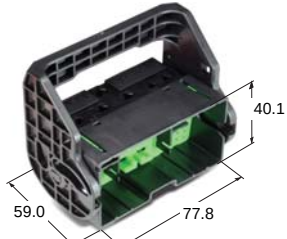
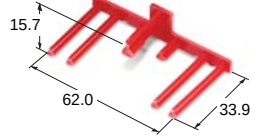
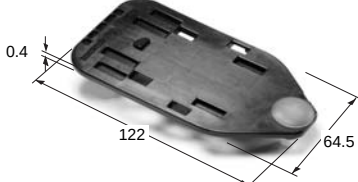
GS SERIES CONNECTOR

- ▶ Double locking system eliminates terminal push-out (Housing lance, TPA)
- ▶ Stable/secure mating action between male and female connector
- ▶ This connector is hybrid type, so there are two terminal connector on one kind of

GS SERIES(DOOR)

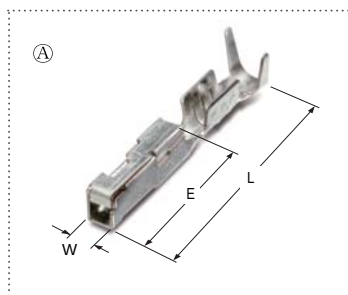
Poles	Plug housing for female terminal	Receptacle housing for Male terminal	Suitable Terminal
18	MG 653931-40A  (280 3P+150 15P) REAR DOOR	MG 643932-40A 	F: 12191811-1812(DELPHI):150 15304710-4713(DELPHI):280 M: 15304701-4702(DELPHI):150 15304722-4725(DELPHI):280
30	MG 653933-40A  (280 4P+150 26P) FRONT DOOR	MG 643934-40A 	

GS SERIES(BODY-IP)

Poles	Plug housing for female terminal	Receptacle housing for Male terminal	Suitable Terminal
68	MG 614615  MG 634616-4 	MG 644512  MG 634611-1  MG 665015 	F: 964261,964263(TYCO):150 964280,964284(TYCO):280 965999(TYCO):280 962932(TYCO):950 M:964265,964267(TYCO):150 964294,964296(TYCO):280 963768,963766(TYCO):950
BODY IP	MG 614615 (950 2P+280 8P+150 58P)		

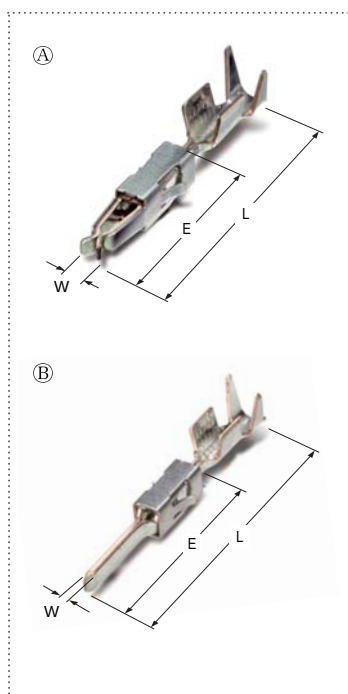
GLOBAL STANDARD TERMINAL

064 TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST731382-3	20-22	0.3-0.5	0.64	0.2	Copper Alloy Pre-Tin	14.0	6.5	1.6	A
ST731383-3	18	0.75-0.8	0.64	0.2	Copper Alloy Pre-Tin	14.0	6.5	1.6	

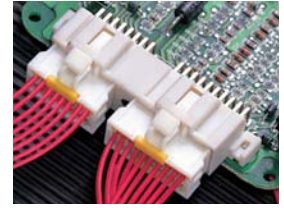
150 TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST731379-3	24-20	FLR 0.2~0.5	0.6	0.2	Copper Alloy Pre-Tin	19.0	10.25	1.6	A
ST731380-3	20-17	FLR 0.5~1.0	0.6	0.2	Copper Alloy Pre-Tin	19.0	10.25	1.6	
ST731381-3	15	FLR 1.5	0.6	0.2	Copper Alloy Pre-Tin	19.0	10.25	1.6	
ST741347-3	24-20	FLR 0.2~0.5	0.6	0.2	Copper Alloy Pre-Tin	22.4	12.7	0.6	B
ST741348-3	20-17	FLR 0.5~1.0	0.6	0.2	Copper Alloy Pre-Tin	22.4	12.7	0.6	
ST741349-3	15	FLR 1.5	0.6	0.2	Copper Alloy Pre-Tin	22.4	12.7	0.6	

PCB CONNECTOR

- ▶ Sub-compact multi-pole PCB Connector with Tab Size 0.64 mm, Pitch 2.2mm
- ▶ Preventing terminal mis insertion and thrust
- ▶ Adopting Spacer with double Locking structure



025 PCB HOUSING(VRT)

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal
24	MG 644100 	MG 654102
28	MG 644088(Pre-Tin) MG 645119(Post-Tin) 	MG 654090
40	MG 644114(Pre-Tin) MG 645121(Post-Tin) 	MG 654116 MG 655708

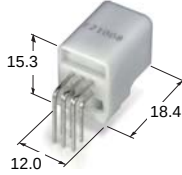
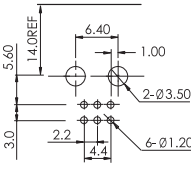
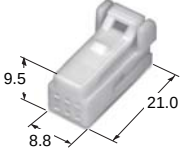
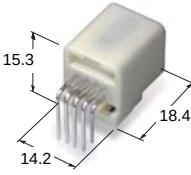
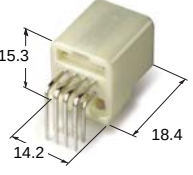
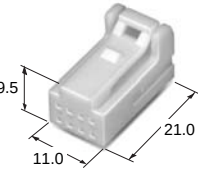
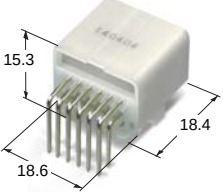
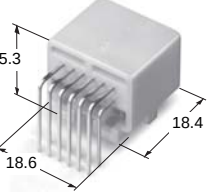
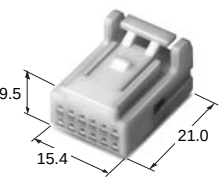
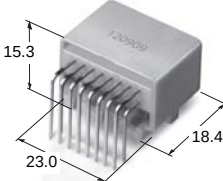
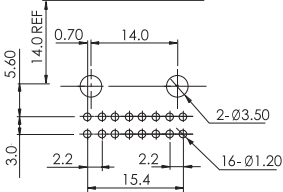
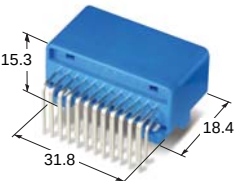
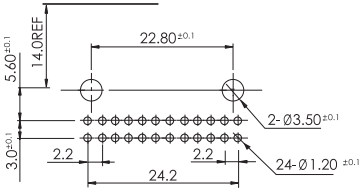
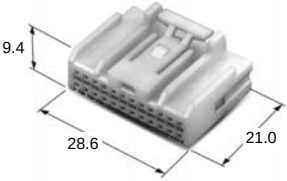
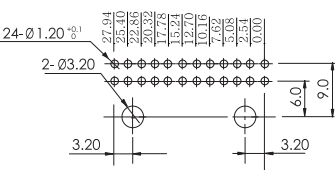
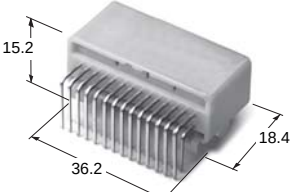
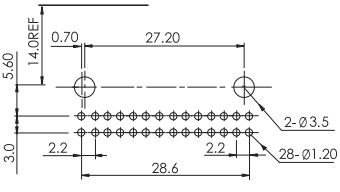
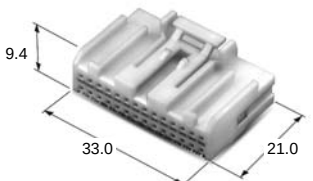
- ▶ Hybrid type compact multi-pole PCB Connector.
- ▶ Suitability for Power and Signal circuit characteristic
- ▶ Adopting Spacer with Double Locking structure

025040 PCB HOUSING(VRT)

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal
18	MG 645260 (040III 10P+025 8P)	MG 654670

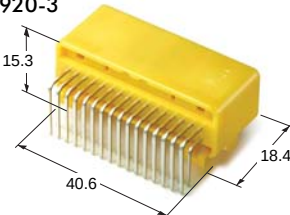
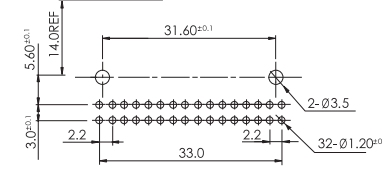
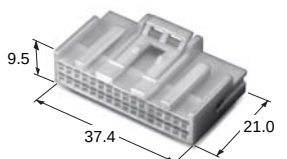
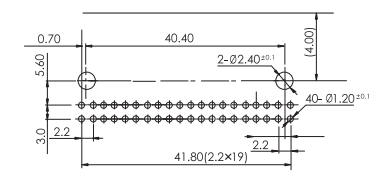
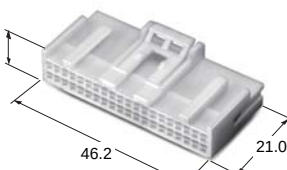
PCB CONNECTOR

025 PCB HOUSING(HZT)

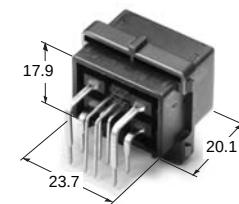
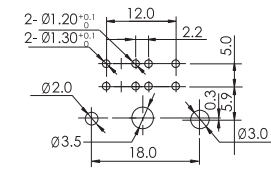
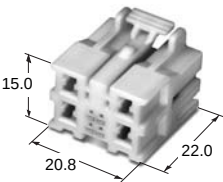
Poles	Receptacle housing for PCB Tab terminal		Plug housing for female terminal
6	MG 645715 		MG 655665 
8	MG 645716(PBT) 	MG 645586(SPS) 	MG 655587 
12	MG 645717 	MG 645320 	MG 655323 
16	MG 645718 		MG 655666 
24	MG 644918-2 		MG 654102 
	MG 645878 		MG 655758 
28	MG 645719 		MG 654090 

PCB CONNECTOR

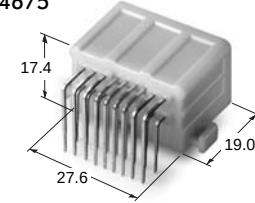
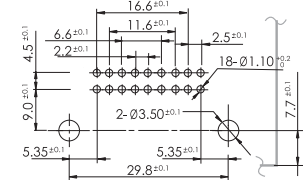
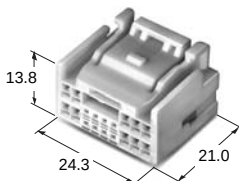
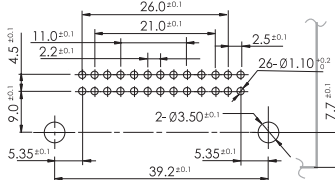
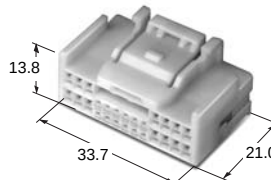
025 PCB HOUSING(HZT)

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal
32	MG 644920-3  	MG 655709 
40	MG 645820  	MG 655708 

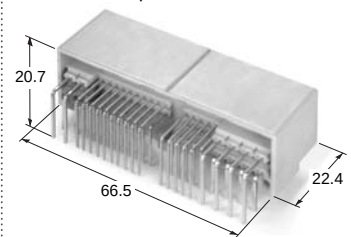
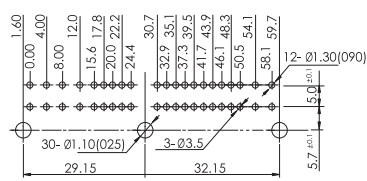
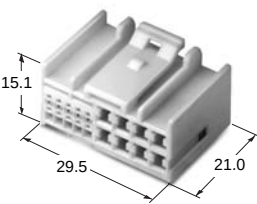
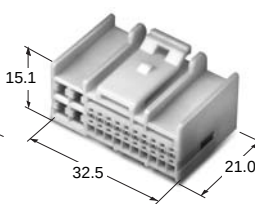
025110 PCB HOUSING(HZT)

8	MG 645636   (110 4P+025 4P)	MG 655639 
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025040 PCB HOUSING(HZT)

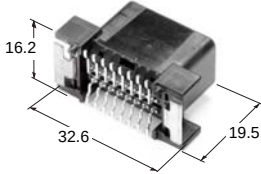
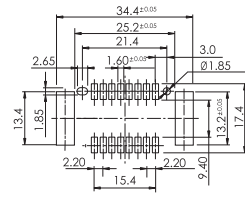
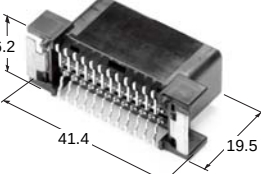
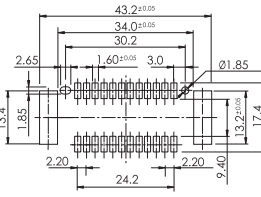
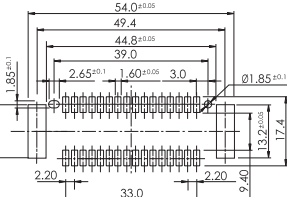
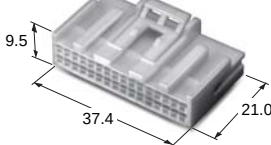
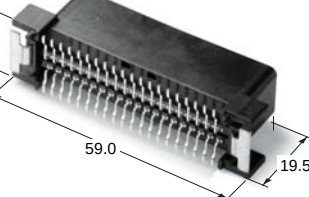
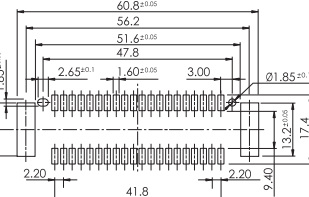
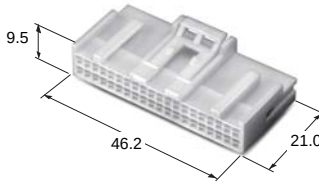
18	MG 644675   (040III 10P+025 8P)	MG 654670 
26	MG 644673   (040III 14P+025 12P)	MG 654667 

025090 PCB HOUSING(HZT)

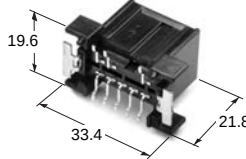
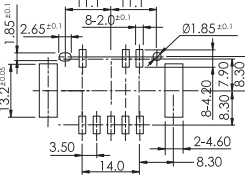
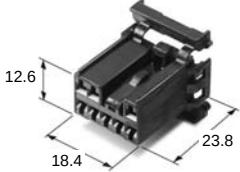
42	MG 644408, MG 645855-5   (090II 12P+025 30P)	MG 654410  (090 8P+025 10P)	MG 654413  (090 4P+025 20P)
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PCB CONNECTOR

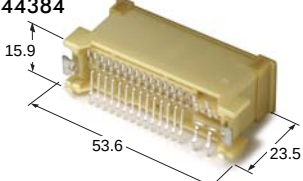
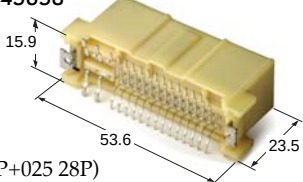
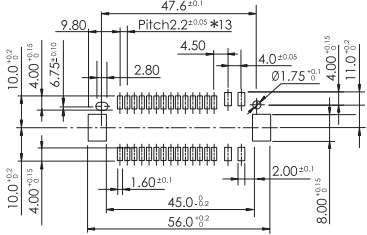
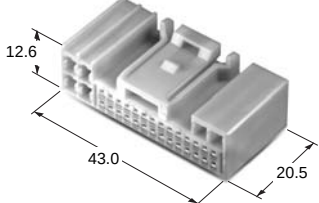
025 SMD HOUSING(VRT)

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal
16	MG 645738  	MG 655666 
24	MG 645739  	MG 654102 
32	MG 645055  	MG 655709 
40	MG 644633  	MG 655708 

070 SMD HOUSING(VRT)

8	MG 645004  	MG 610402 
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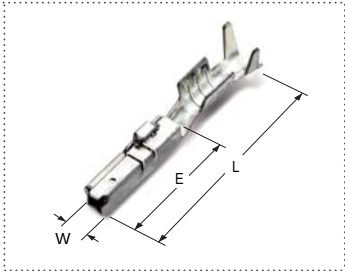
025090 SMD HOUSING(VRT)

32	MG 644384  MG 645658  (090 4P+025 28P) 	MG 654386 
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PCB CONNECTOR

- ▶ Sub-compact multi-pole PCB Connector with tab Size 0.64 mm , Pitch 2.54mm (non waterproof)
- ▶ Apply the CPA (Connector Position Assurance).
- ▶ Double locking system eliminates terminal push-out (Housing lance, TPA)

064 TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST731068-3	22-20	AVSS 0.3 - 0.5	0.64	0.2	Copper-Alloy Pre-Tin	14.85	6.85	1.65	



064 PCB HOUSING

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal	TPA
16	MG 645584(HZT) 24.7 39.8 22.7	MG 654243 18.0 13.2 21.0	MG 635581-1 13.05 4.1
		MG 654863-41 18.0 13.2 21.0	

PCB CONNECTOR

030 PCB HOUSING

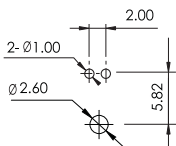
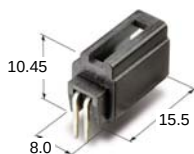
Poles

Receptacle housing for PCB Tab terminal

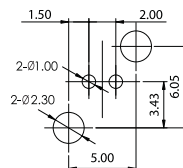
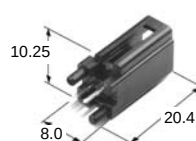
PCB

2

MG 643748(HZT)



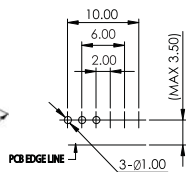
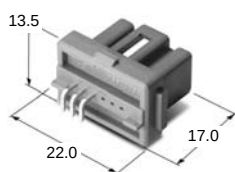
MG 644008 (VRT)



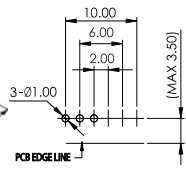
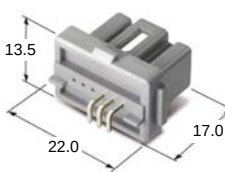
Suitable Connector: MG 652630

6

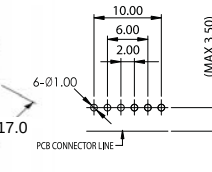
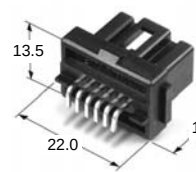
MG 643757-7 (HZT)



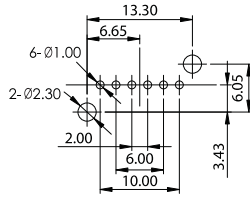
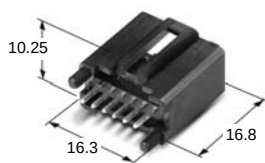
MG 643783-40 (HZT)



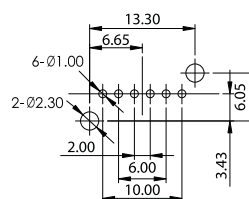
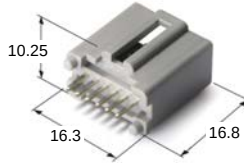
MG 643358 (HZT)



MG 643648 (VRT)



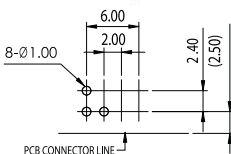
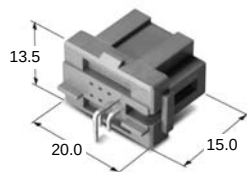
MG 643942-4 (VRT)



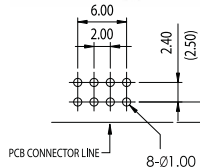
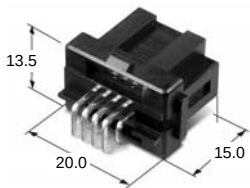
Suitable Connector: MG 651439

8

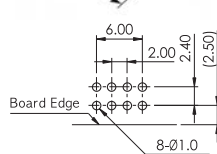
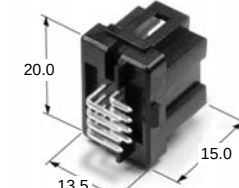
MG 643758 (HZT)



MG 643608 (HZT)

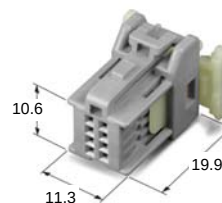


MG 642852 (HZT)

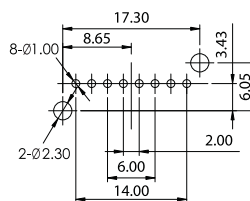
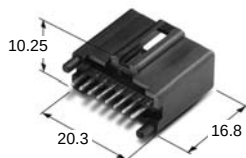


Plug housing for female terminal

MG 651434



MG 643996 (VRT)



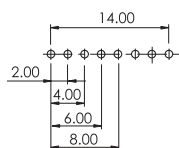
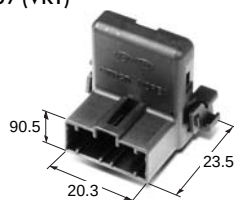
Suitable Connector: MG 652633

Poles

Plug housing for male terminal

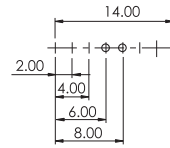
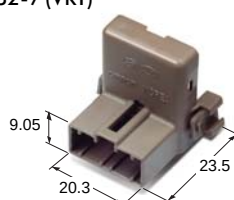
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MG 644157 (VRT)



Suitable Connector: MG 652633

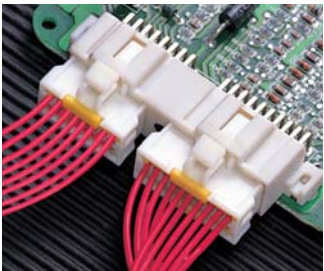
MG 644682-7 (VRT)



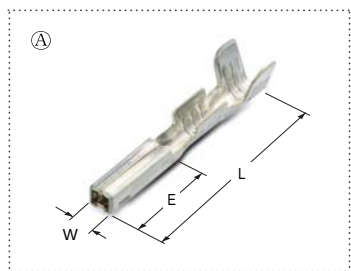
Suitable Connector: MG 652633

PCB CONNECTOR

- ▶ Small Size Multi-Pole Connectors designed for electronic equipment mounted on automobiles.
- ▶ These connectors are suitable for Modulator, Electronic Time & Alarm Control System and Electronic Control System.
- ▶ High density, multi-pole type with 2.54mm pitch.
- ▶ Two piece type with a spring part inside female terminal. It provides more mechanical and electrical reliability as well as durability and contact system reinforcement.
- ▶ Double Lock type with Rear Holder Designed to prevent backing-out and incomplete terminals insertion after inserting terminal into housing.



TERMINAL



Part No.	Wire Range mm ²	Tab Thick.	Material		Dimension(mm)			Type
			Thick.	Finish	L	E	W	
ST730517-3	AVSS 0.3 -0.5	0.64	0.3	Brass & Copper Alloy	14.8	5.8	1.85	

O40(SP) PCB HOUSING

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal
2		MG 613140
4	MG 640368(HZT) 	MG 610366 MG 630369-3
10	MG 640374(HZT-8P) 	MG 610372 MG 630375-3

PCB CONNECTOR

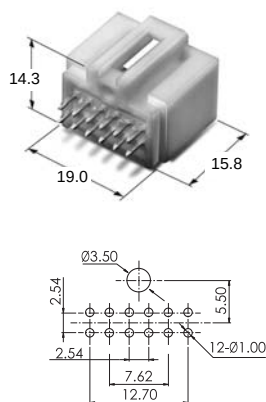
040(SP) PCB HOUSING

Poles

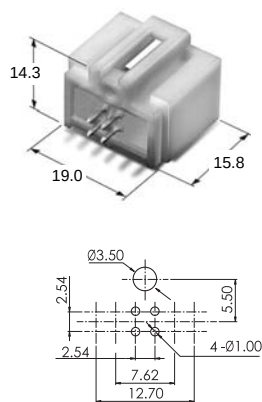
Receptacle housing for PCB Tab terminal

Plug housing for female terminal

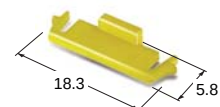
MG 640388(VRT-12P)



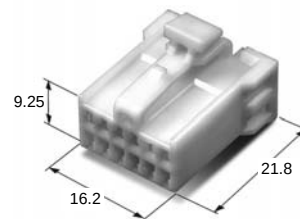
MG 643295(VRT-4P)



MG 630377-3

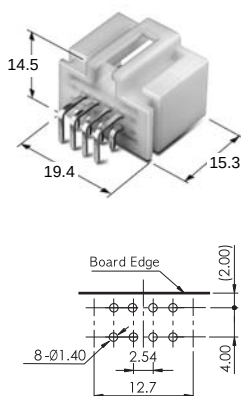


MG 610376

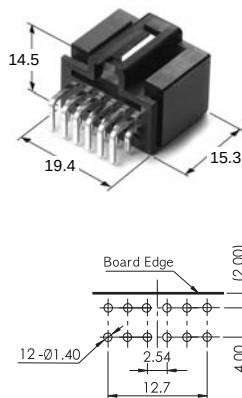


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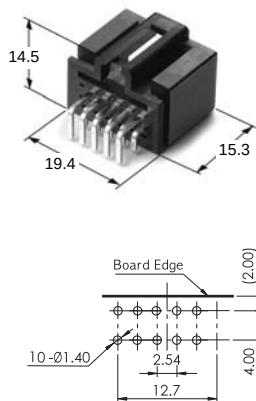
MG 642870(HZT-8P)



MG 643684(HZT-12P)



MG 643587(HZT-10P)



PCB

PCB CONNECTOR

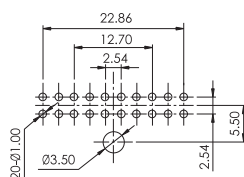
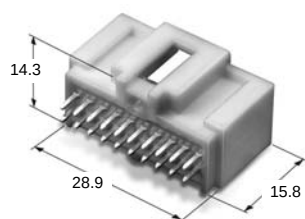
040(SP) PCB HOUSING

Poles

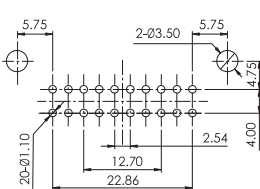
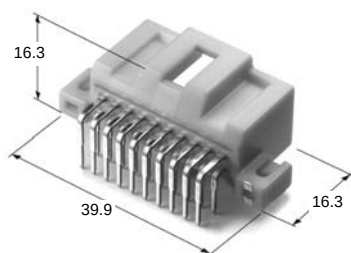
Receptacle housing for PCB Tab terminal

Plug housing for female terminal

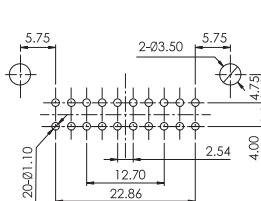
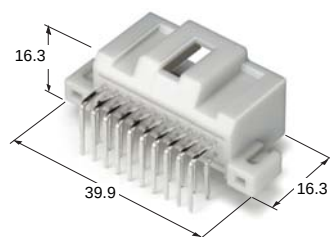
MG 640391(VRT)



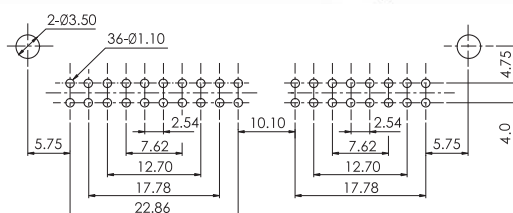
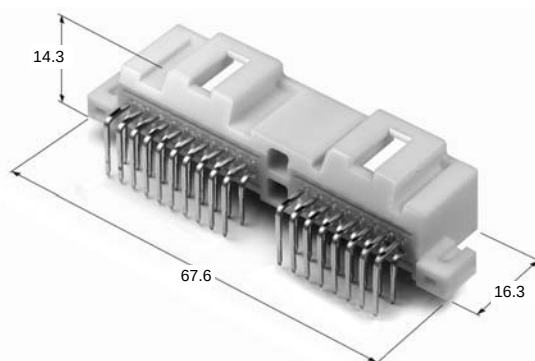
MG 640380(HZT)



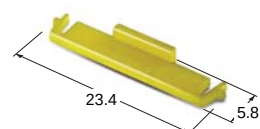
MG 645051(HZT)



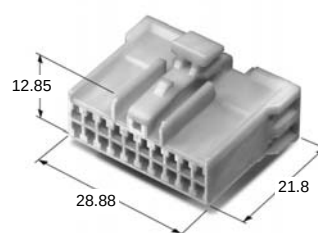
MG 640384(HZT)



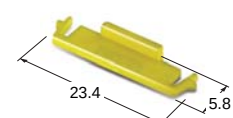
MG 630365-3



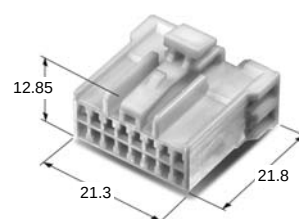
MG 610363



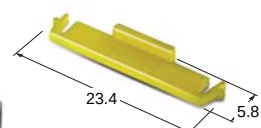
MG 630362-3



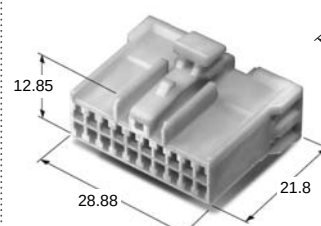
MG 610360(16P)



MG 630365-3



MG 610363(20P)



PCB CONNECTOR

040III PCB HOUSING

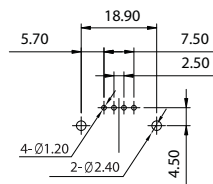
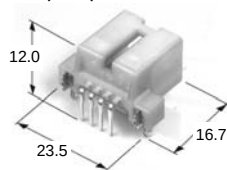
Poles

Receptacle housing for PCB Tab terminal

PCB

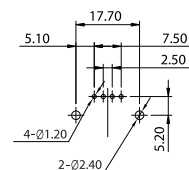
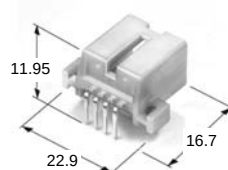
4

MG 643142 (HZZ) PRE-TIN
MG 643403 (HZZ) TIN-PLATE



Suitable Connector: MG 652999

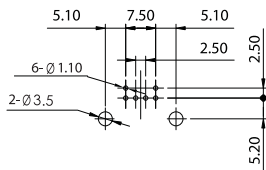
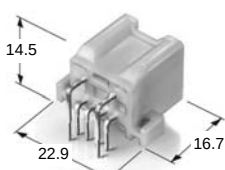
MG 643161 (HZZ)



Suitable Connector: MG 652999

6

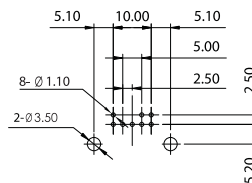
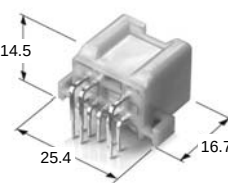
MG 643324 (HZZ)



Suitable Connector: MG 653005

8

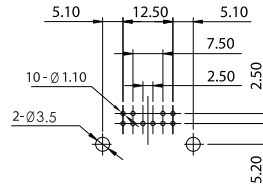
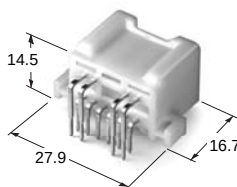
MG 643326 (HZZ)



Suitable Connector: MG 653257

10

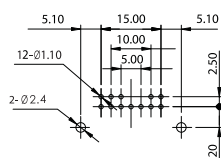
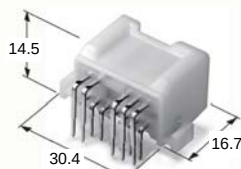
MG 643328 (HZZ)



Suitable Connector: MG 653329

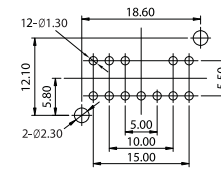
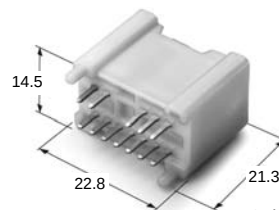
12

MG 643163 (HZZ)



Suitable Connector: MG 653012

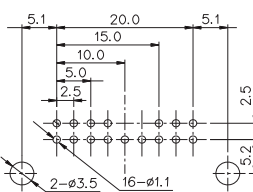
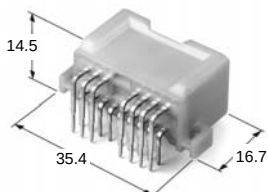
MG 643458 (VRT)



Suitable Connector: MG 653012

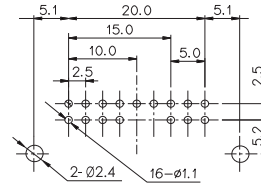
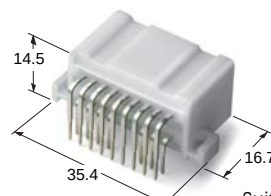
16

MG 643037 (HZZ)



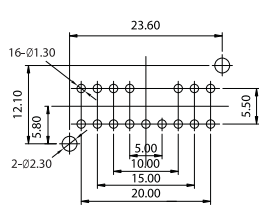
Suitable Connector: MG 653019

MG 644937 (HZZ)



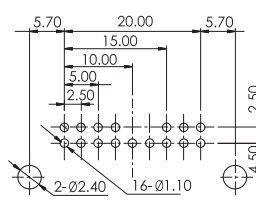
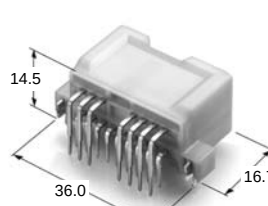
Suitable Connector: MG 653019

MG 643460 (VRT)



Suitable Connector: MG 653019

MG 643643 (HZZ)



Suitable Connector: MG 653019

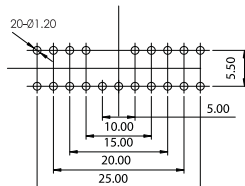
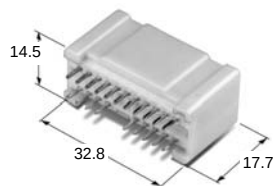
PCB CONNECTOR

040III PCB HOUSING

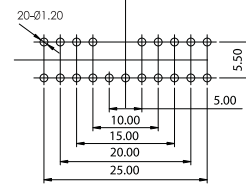
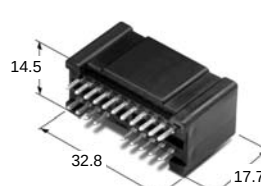
Poles

Receptacle housing for PCB Tab terminal

MG 643722 (VRT)



MG 643985 (VRT)

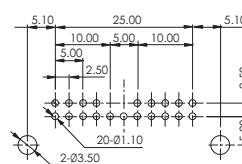
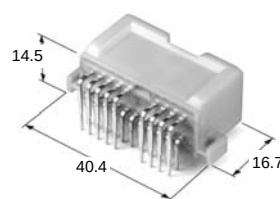


Suitable Connector: MG 653026

Suitable Connector: MG 653026

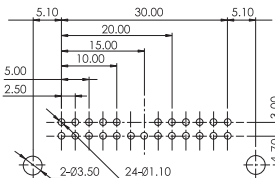
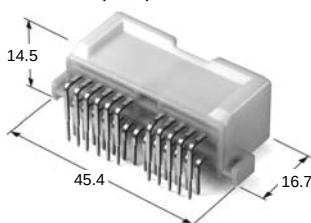
20

MG 643039 (HZZ)

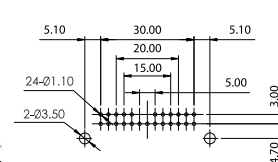
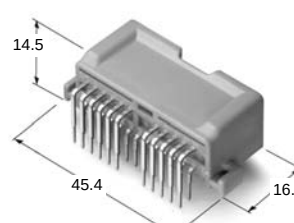


Suitable Connector: MG 653026

MG 643057 (HZZ)



MG 643535-4 (HZZ)

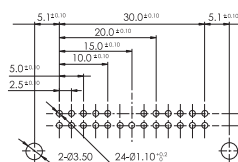
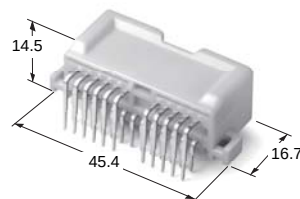


Suitable Connector: MG 653033

Suitable Connector: MG 653537-4

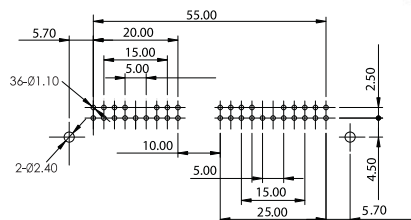
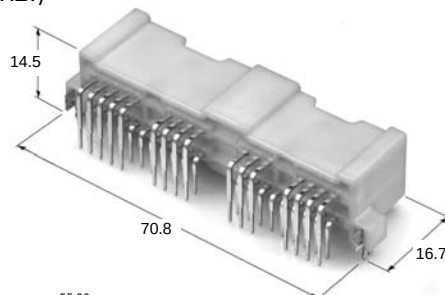
24

MG 644839 (HZZ)



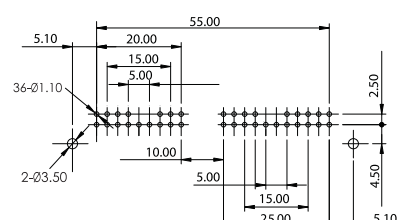
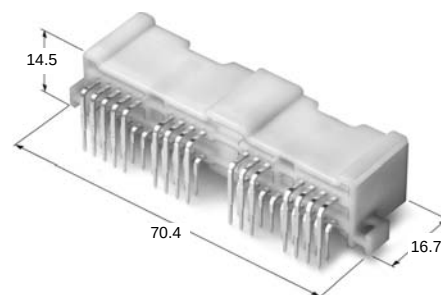
Suitable Connector: MG 653033

MG 643645 (HZZ)



Suitable Connector: MG 653019, MG 653026

MG 643322 (HZZ)



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PCB CONNECTOR

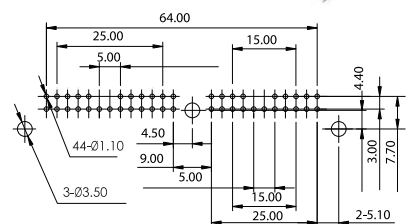
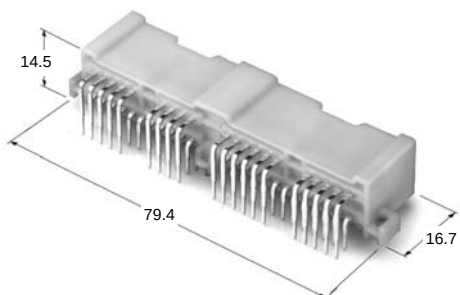
040III PCB HOUSING

Poles

Receptacle housing for PCB Tab terminal

MG 643354 (HZZ)

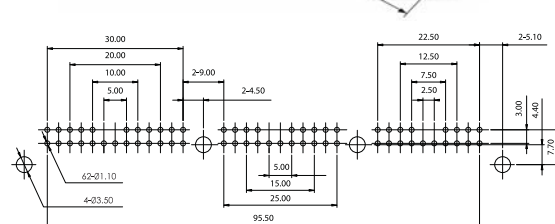
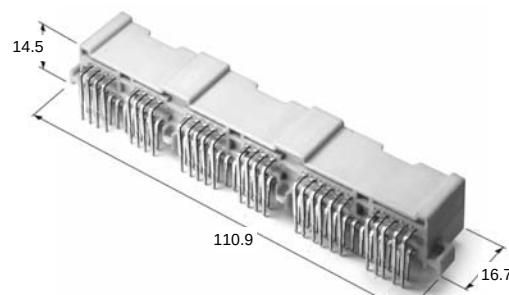
44



Suitable Connector: MG 653033(24P), MG 653026(20P)

MG 643906 (HZZ)

62



Suitable Connector: MG 653033(24P), MG 653026(20P), MG 652945(18P)

040II PCB HOUSING

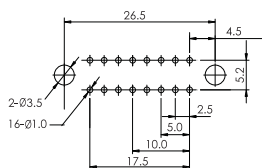
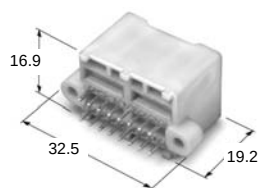
Poles

Receptacle housing for PCB Tab terminal

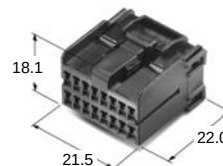
Plug housing for female terminal

MG 644125(VRT)
MG 645763-41(VRT)

16



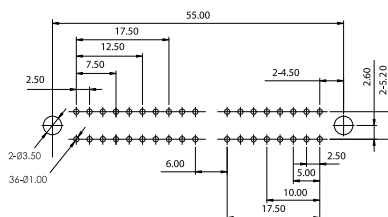
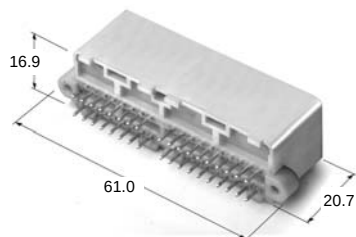
MG 614127



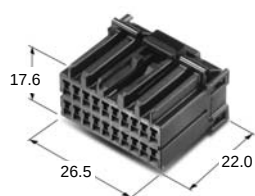
Suitable Terminal: ST 731078-3

MG 644112(VRT)

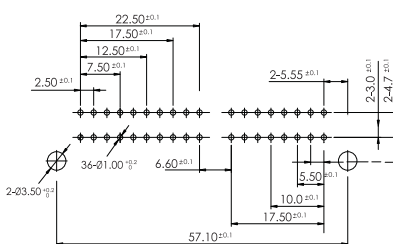
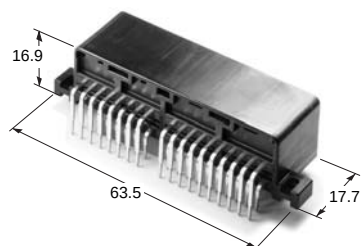
36



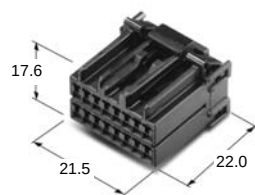
MG 614119(20Poles)



MG 644459(HZZ)



MG 614120(16Poles)



Suitable Connector: MG 614119(20P), MG 614120(16P)

Suitable Terminal: ST 731078-3

PCB CONNECTOR

0407 PCB HOUSING

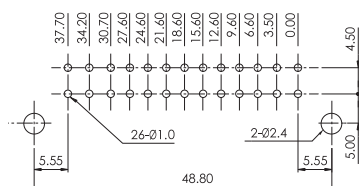
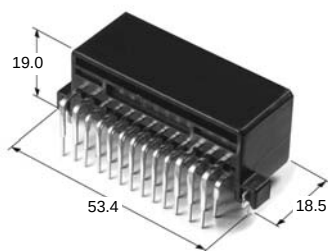
Poles

Receptacle housing for PCB Tab terminal

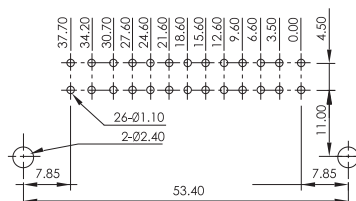
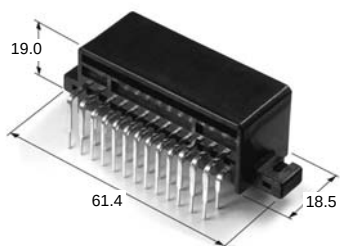
Plug housing for female terminal

MG 641791(HZT-PCB LOCK)

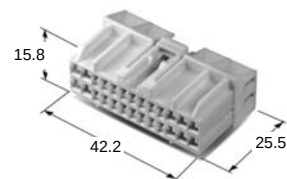
(040 16P+070 10P)



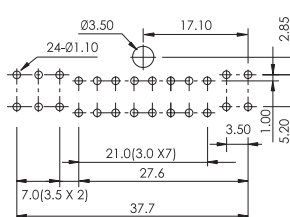
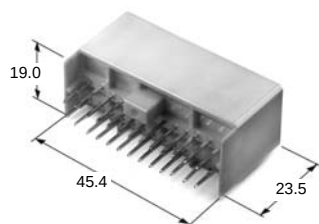
MG 642505(HZT-PCB LOCK)



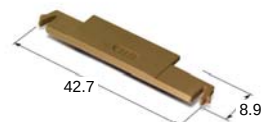
MG 611336



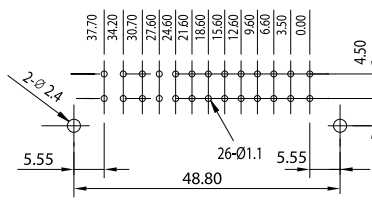
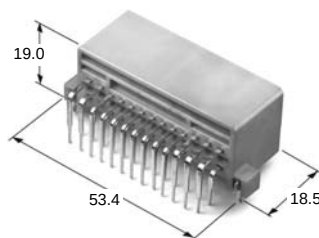
MG 642924(VRT)



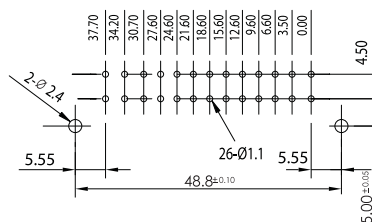
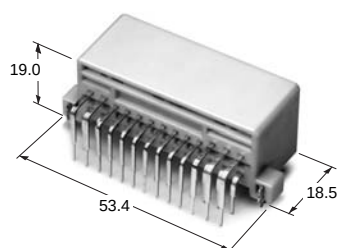
MG 631337-7



MG 643336(HZT-PCB LOCK)



MG 644585(HZT-GOLD)



PCB CONNECTOR

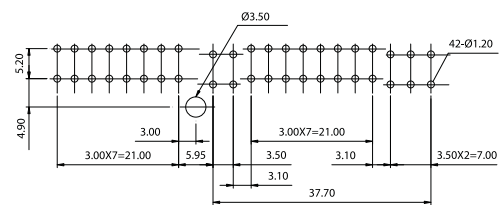
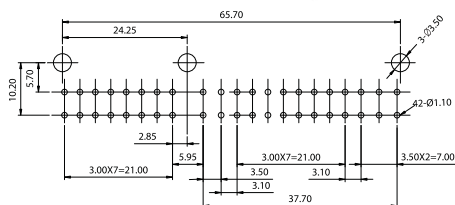
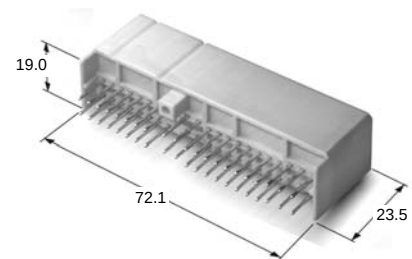
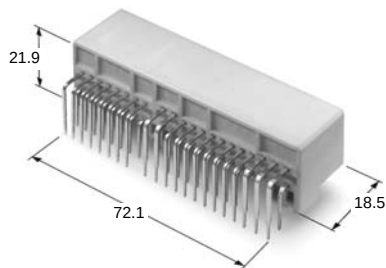
0407 PCB HOUSING

Poles

Receptacle housing for PCB Tab terminal

MG 643859 (H2T)

MG 643911 (VRT)

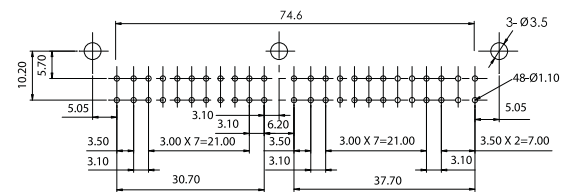
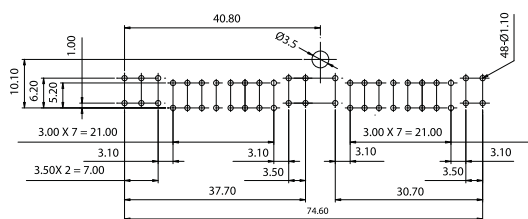
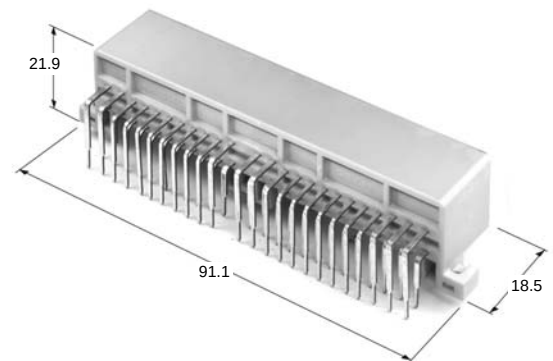
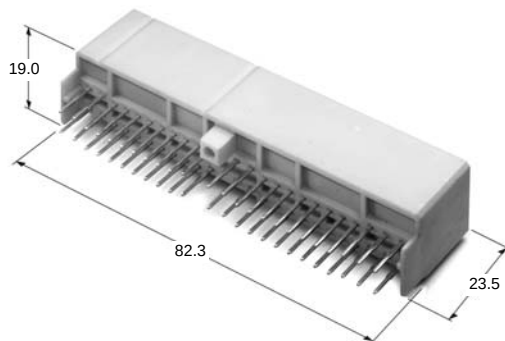


(070 10P+040II 32P)

Suitable Connector: MG 611332(040 16P), MG 611336(040 16P+070 10P)

MG 643432 (VRT)

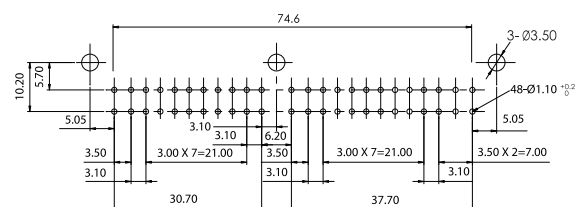
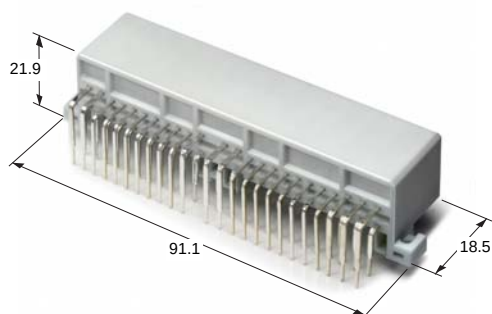
MG 643434 (H2T)



(070 16P+040II 32P)

Suitable Connector: MG 611336(26P), MG 611334(22P)

MG 645134 (H2T-GOLD)



(070 16P+040II 32P)

Suitable Connector: MG 611336(26P), MG 611334(22P)

PCB CONNECTOR

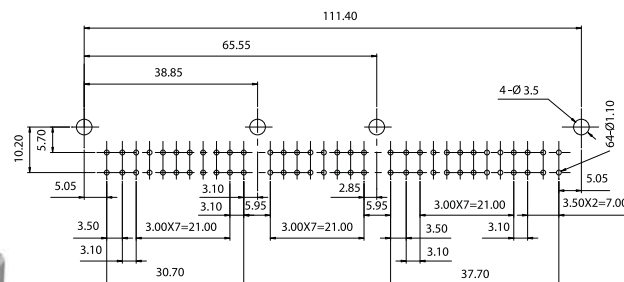
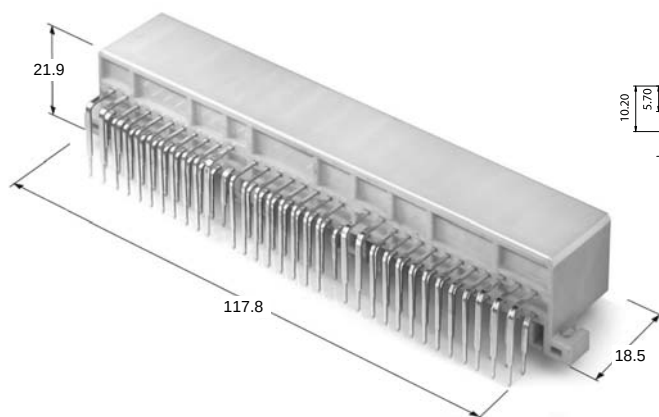
0407 PCB HOUSING

Poles

Receptacle housing for PCB Tab terminal

MG 643909(HZT)

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(070 16P+040II 48P)

Suitable Connector: MG 611336(26P), MG 611334(22P), MG 611332(16P)

0409 PCB HOUSING

Poles

Receptacle housing for PCB Tab terminal

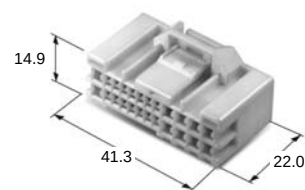
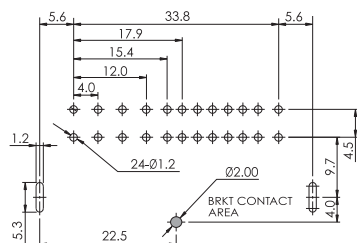
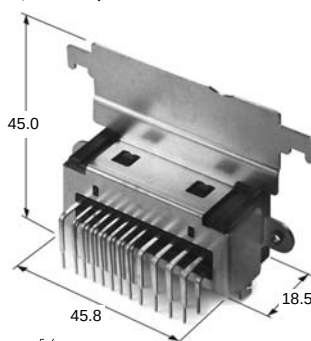
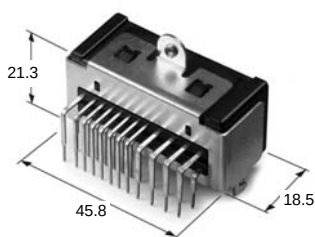
Plug housing for female terminal

MG 642910(HZT, A-TYPE)

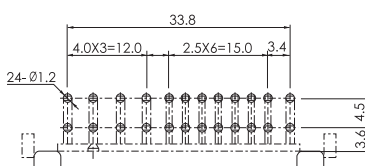
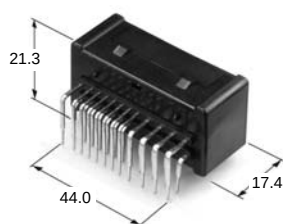
MG 642974(HZT, B-TYPE)

MG 652911

24



MG 643678(HZT-NON BRACKET TYPE)



(090II 10P+040III 14P)

PCB CONNECTOR

050 PCB HOUSING

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal
5	MG 644352(VRT) 	MG 614354
	MG 644381(VRT) 	
10	MG 641732(VRT) 	MG 651580
	MG 642179(VRT) 	MG 651563
23	MG 641875(HZT) 	
	MG 645050(HZT) 	

PCB CONNECTOR

050 PCB HOUSING

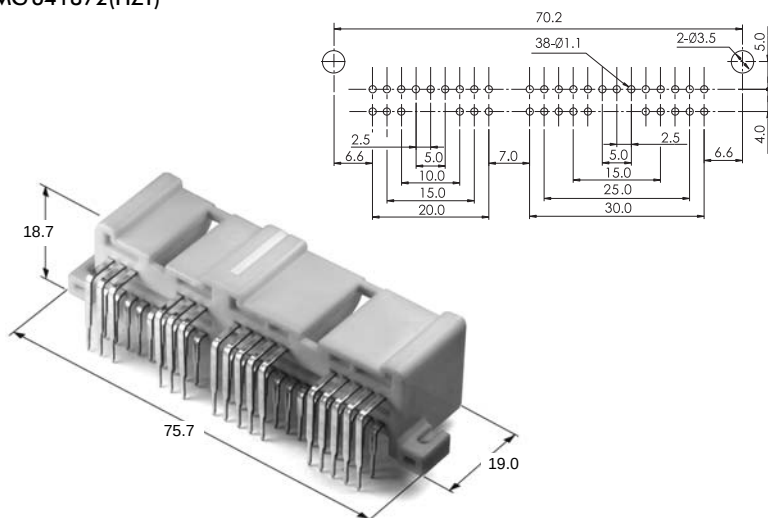
Poles

Receptacle housing for PCB Tab terminal

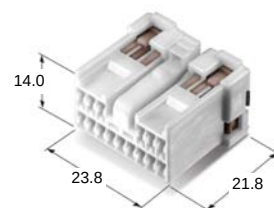
Plug housing for female terminal

MG 641872(HZT)

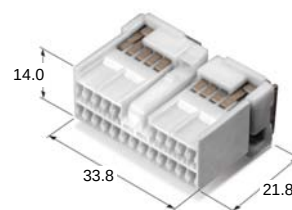
38



MG 651598



MG 651563



060 SMD HOUSING(HZT)

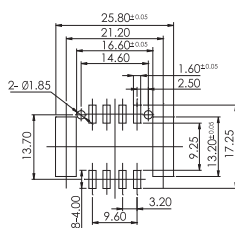
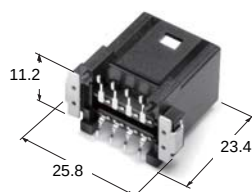
Poles

Receptacle housing for PCB Tab terminal

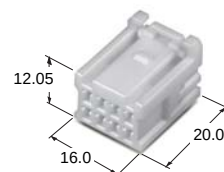
Plug housing for female terminal

MG 645883

8

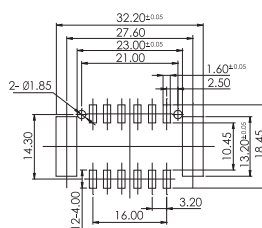
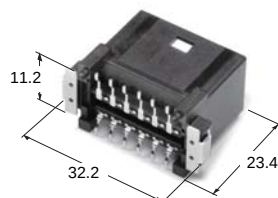


MG 655827

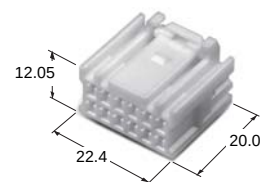


MG 645884

12

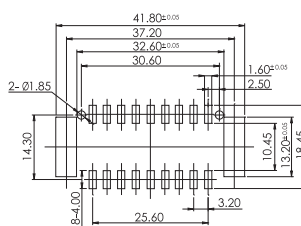
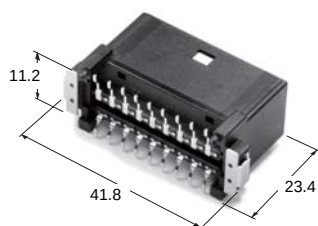


MG 655828

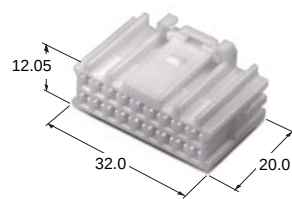


MG 645885

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MG 655829



PCB CONNECTOR

NO60 PCB HOUSING

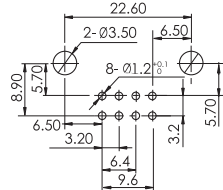
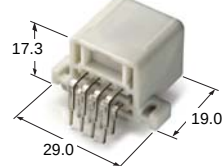
Poles

Receptacle housing for PCB Tab terminal

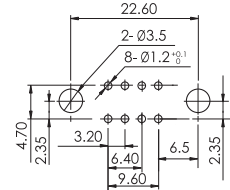
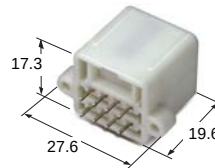
PCB

8

MG 645699(HZT)



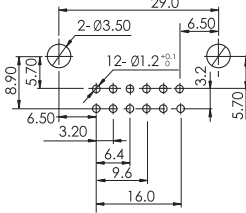
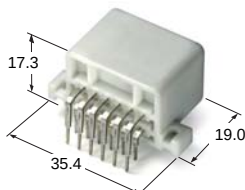
MG 645702(VRT)



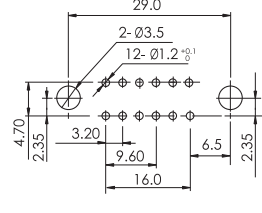
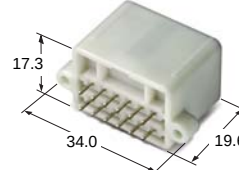
Suitable Connector: MG 655603

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MG 645700(HZT)



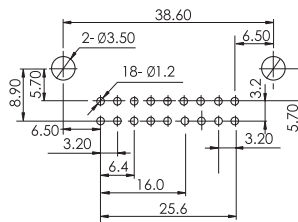
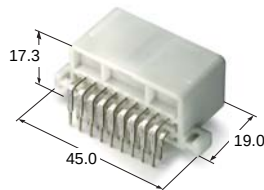
MG 645703(VRT)



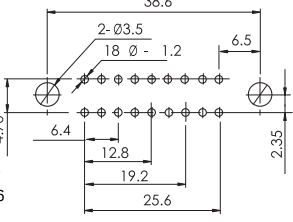
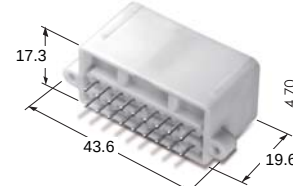
Suitable Connector: MG 655613

18

MG 645701(HZT)



MG 645704(VRT)



Suitable Connector: MG 655628

060II PCB HOUSING

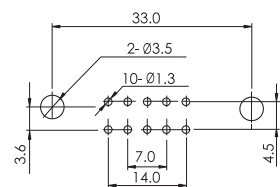
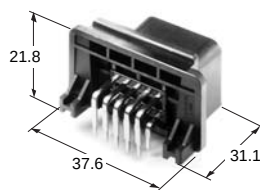
Poles

Receptacle housing for PCB Tab terminal

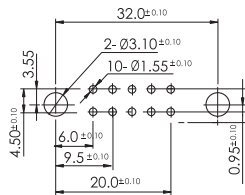
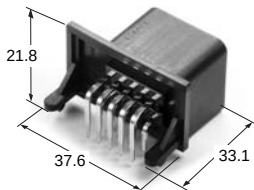
Plug housing for female terminal

10

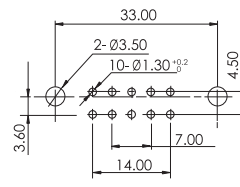
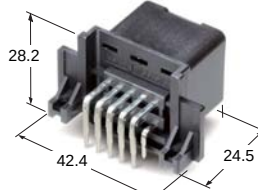
MG 645488(HZT)



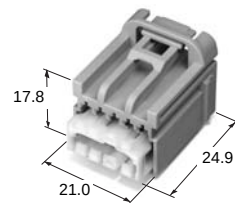
MG 645395(HZT)



MG 645769(HZT)



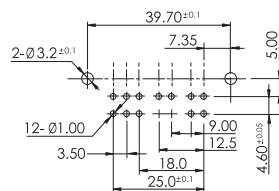
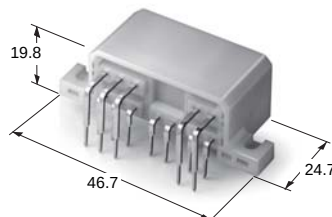
MG 655347-41



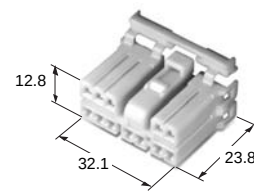
070 PCB HOUSING

MG 644473(HZT)

12



MG 614475



PCB CONNECTOR

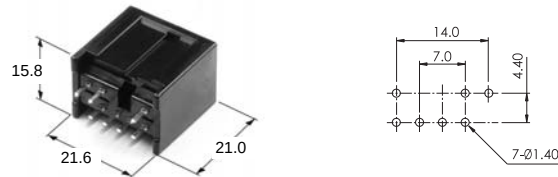
SDII PCB HOUSING

Poles

Receptacle housing for PCB Tab terminal

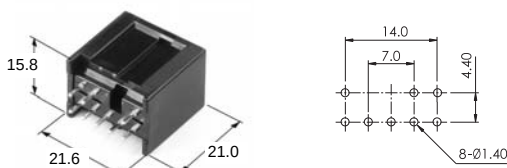
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MG 642835(VRT)

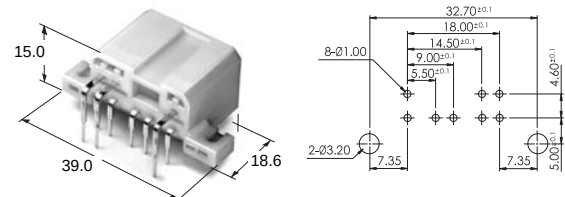


Suitable Connector: MG 610402

MG 643687(VRT)



MG 645052(HZT)

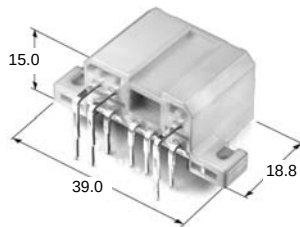


Suitable Connector: MG 610402

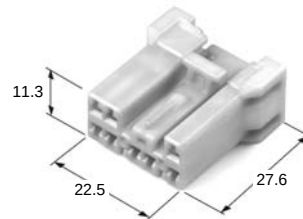
Suitable Connector: MG 610789

8

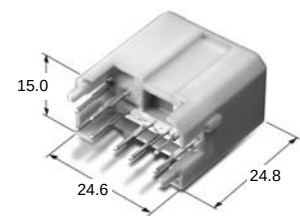
MG 640861 (HZT)



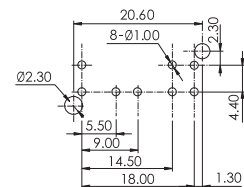
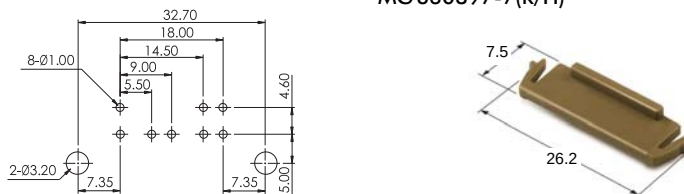
MG 610896(Female)



MG 641009(VRT)

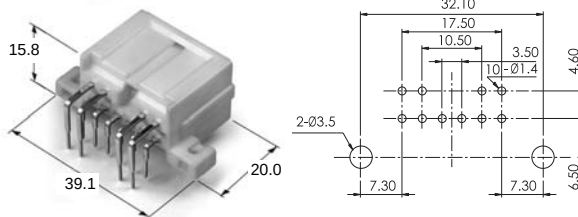


MG 630897-7(R/H)

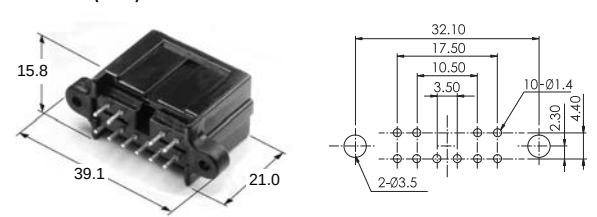


10

MG 641481 (HZT)



MG 641921(VRT)

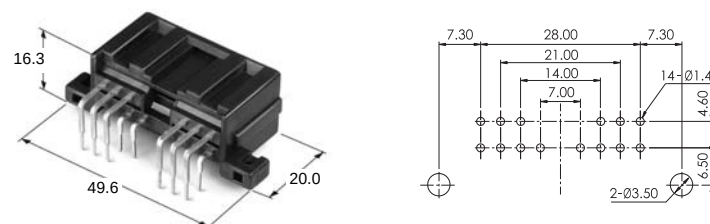


Suitable Connector : MG 610404

Suitable Connector: MG 610404

14

MG 641483(HZT)



Suitable Connector: MG 610406

PCB CONNECTOR

090II PCB HOUSING

Poles	Receptacle housing for PCB Tab terminal	
5	MG 640665(HZT) 	Suitable Connector: MG 651044
6	MG 643054(HZT) 	MG 640743(HZT) Suitable Connector: MG 651044
8	MG 640892(HZT) 	MG 641485(VRT) Suitable Connector: MG 651050
10	MG 641854(VRT), MG 643708(VRT-Copper Sn) Suitable Connector: MG 651056	MG 642108(HZT), MG 645733-7(HZT-B), MG 645736-1(HZT-C) Suitable Connector: MG 651056, MG 655680-7, MG 655681-1
11	MG 644835(VRT) 	MG 642016(VRT) Suitable Connector: MG 651350
12	MG 645021(HZT) 	Suitable Connector: MG 651350

PCB CONNECTOR

090II PCB HOUSING

Poles	Receptacle housing for PCB Tab terminal	
12	MG 642466(HZT) 	MG 644011(HZT)
	Suitable Connector: MG 651965	
14	MG 641487(VRT) 	MG 642666(HZT)
	Suitable Connector: MG 651110	
14	MG 642868(VRT) 	MG 644837(VRT)

ASC PCB HOUSING

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal
16	MG 643200(VRT) 	MG 653198
	MG 643715 (HZT) 	

PCB CONNECTOR

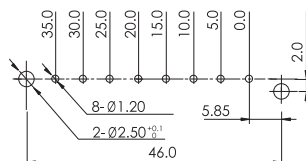
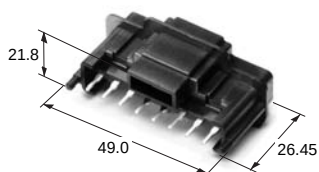
II0 PCB HOUSING

Poles

Receptacle housing for PCB Tab terminal

MG 644496(VRT)

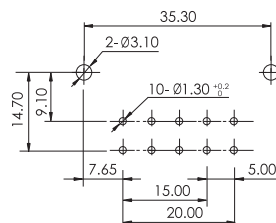
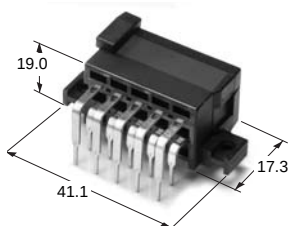
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II8 PCB HOUSING

MG 645637(HZT)

10



I87II PCB HOUSING

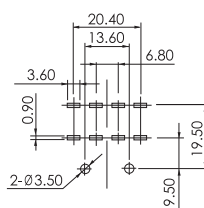
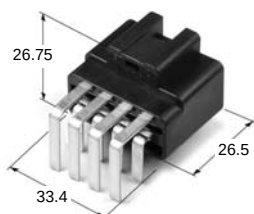
Poles

Receptacle housing for PCB Tab terminal

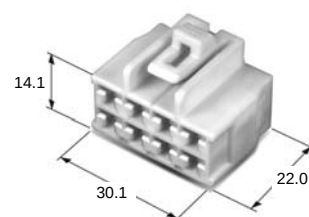
Plug housing for female terminal

MG 643430 (HZT)

8



MG 652220

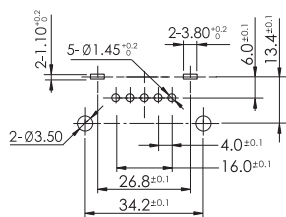
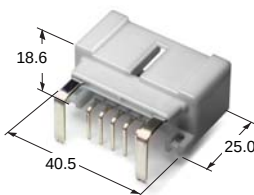


(187 8P)

I809 PCB HOUSING

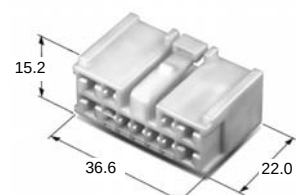
MG 644422(HZT)

7



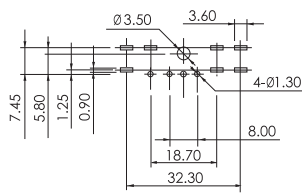
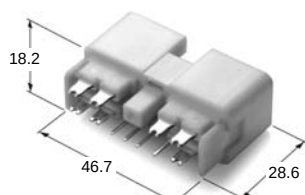
(187II 2P+090II 5P)

MG 651525



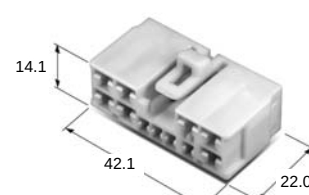
MG 643314(VRT)

11



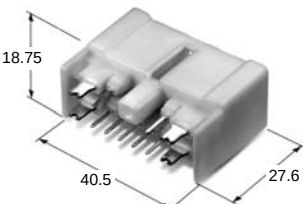
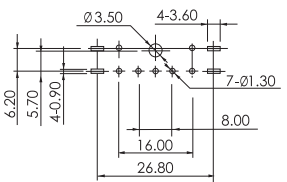
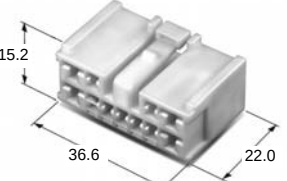
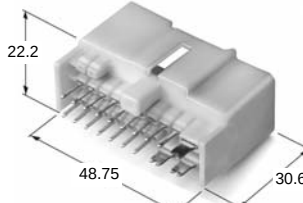
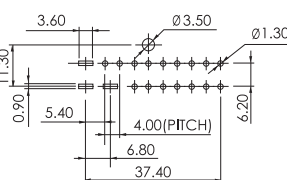
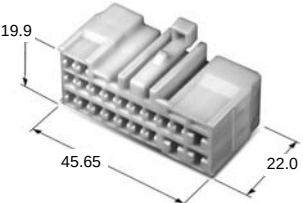
(187II 7P+090II 4P)

MG 651917

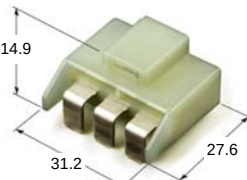
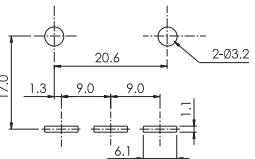
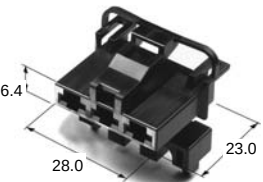
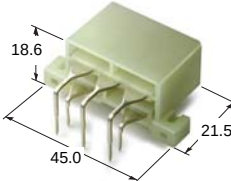
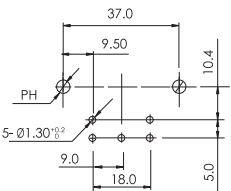
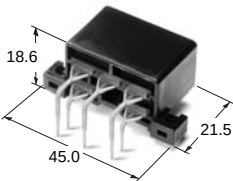
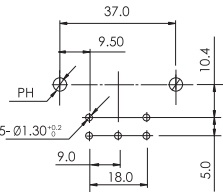
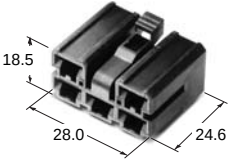


PCB CONNECTOR

1809 PCB HOUSING

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal
11	MG 643335(VRT)   (187 4P+090 7P)	MG 651525 
19	MG 643312(VRT)   (187 3P+090 16P)	MG 612102 

250 PCB HOUSING

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal
3	MG 641659(HZT)  	MG 611657  Suitable Terminal: ST 730467, ST 730468, ST 730469
5	MG 644881(HZT)   MG 644462(HZT)  	MG 614463 

PCB CONNECTOR

3109 PCB HOUSING

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal
6	MG 645221 (VRT) (312II 2P+090II 4P)	MG 652037

375 PCB HOUSING

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal	Rear holder
2	MG 644710 (HZZT)	MG 610557	MG 630656-4
4	MG 643681 (HZZT)	MG 610557 MG 613692-2	
Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal	
2	MG 645697-4 (HZZT)	MG 655655 MG 630656-4	
3	MG 645698 (HZZT)	MG 655656 MG 635606-4	
4	MG 645726 (HZZT)	MG 655674-7 MG 655675-40 MG 630656-4	

PCB CONNECTOR

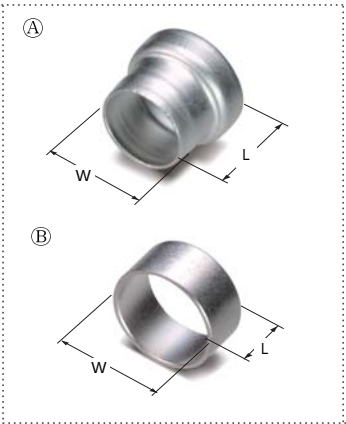
- ▶ PCB Connector is well suited for high circuit density boards with high reliability.
- ▶ A rear holder prevents incomplete terminal locking into housing.
- ▶ EMC Shield is included



MDPS 375 PCB HOUSING

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal	Rear holder
2	MG 645737 Suitable Terminal: ST 730722-3	MG 655682 MATERIAL Current Rating Voltage Rating Waterproof Temperature Range Applicable Terminal Wire Range : 60A : DC 12V : Non-waterproof : -40℃~80℃ : KET 375 Terminal : 8SQ Shield Wire	MG 635641-2
	MG 645766 Suitable Terminal: ST 730722-3	MG 655682 MATERIAL Current Rating Voltage Rating Waterproof Temperature Range Applicable Terminal Wire Range : 45A : DC 12V : Non-waterproof : -40℃~ 80℃ : KET 375 Terminal : 5SQ Shield Wire	MG 635646-2

CRIMP RING



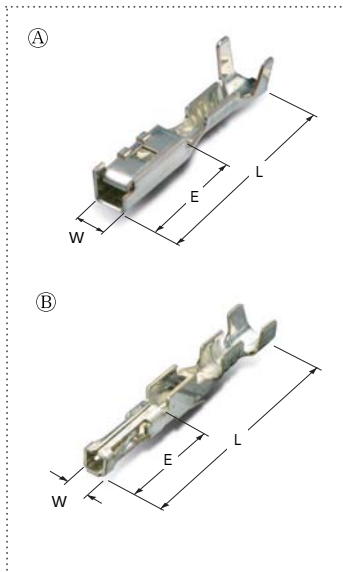
Part No.	Material		Dimension(mm)			Type
	Thick.	Finish	L	€	W	
MG 685414 MG 685420	0.5	Copper Alloy Tin Plate	5.0	-	10.4	Ⓐ

SUPPORT RING

Part No.	Material		Dimension(mm)			Type
	Thick.	Finish	L	€	W	
MG 685415 MG 685418	0.5	Copper Alloy Tin Plate	8.5	-	10.8	Ⓑ

PCB CONNECTOR

2.2mm TERMINAL(MCCP)



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST730409-3	22-18	AVSS 0.3~0.85	0.64	0.3	Phos Bronze Pre-Tin	17.8	7.6	3.0	A
ST730410-3	18-16	AVSS 0.85-1.25	0.64	0.3	Phos Bronze Pre-Tin	17.8	7.6	3.0	

► These connectors provide capacity with numerous leads.
They are well suited for high circuit density boards and provide connectors with high reliability.

0.64mm PCB PIN RECEPTACLE

ST730424-3	22-20	AVSS 0.3~0.5	0.64	0.3	Brass Pre-Tin	19.0	6.5	2.0	B
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2.2mm PCB HOUSING(MCCP)

Poles	Receptacle housing for PCB Tab terminal	Plug housing for female terminal
20	MG 640242(HZT)	MG 610240

3mm PCB HOUSING

13	MG 642517(VRT)	MG 610216
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PCB(ECU & TCU 64P, 76P) CONNECTOR

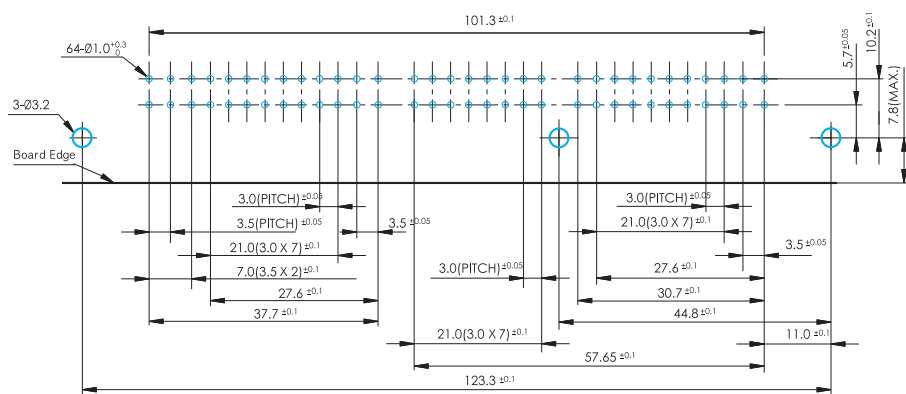
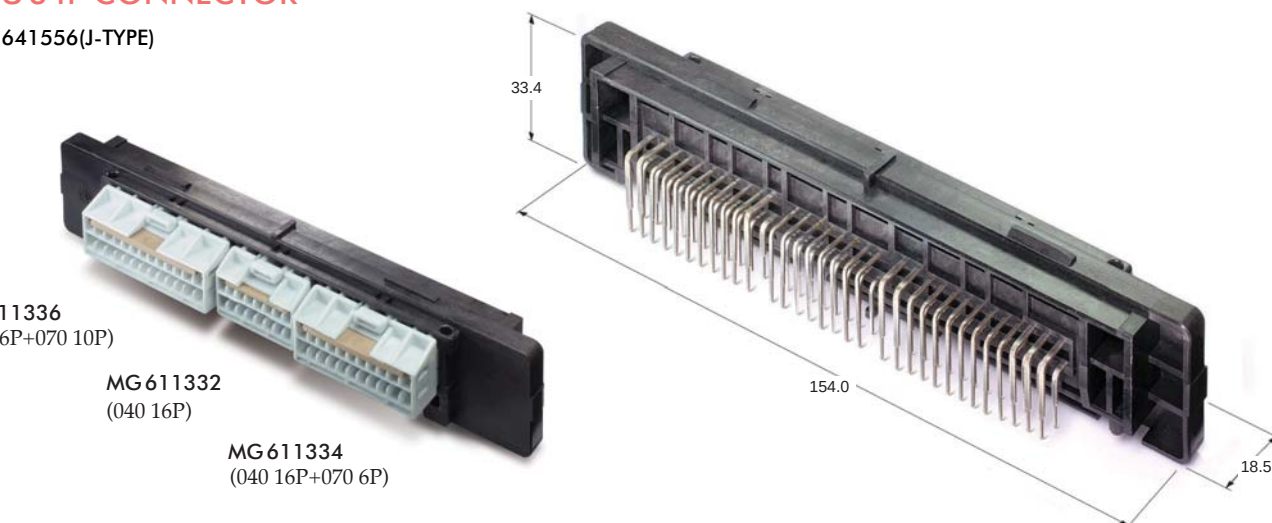
ECU 64P CONNECTOR

MG 641556(J-TYPE)

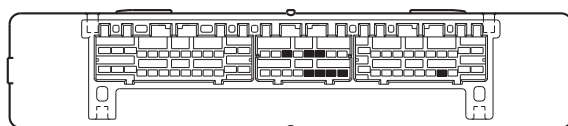
MG 611336
(040 16P+070 10P)

MG 611332
(040 16P)

MG 611334
(040 16P+070 6P)



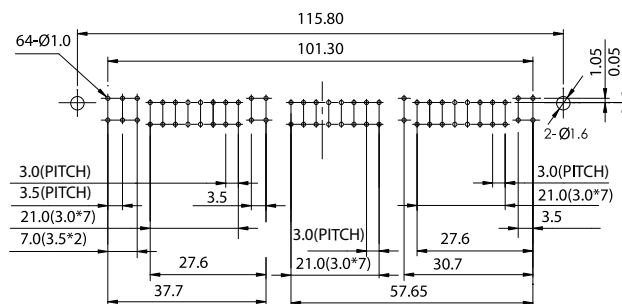
ECU 64P CONNECTOR
MG 641556(J-TYPE)



GOLD PLATE TERMINAL (■ MARK)

ECU 64P CONNECTOR

MG 642419

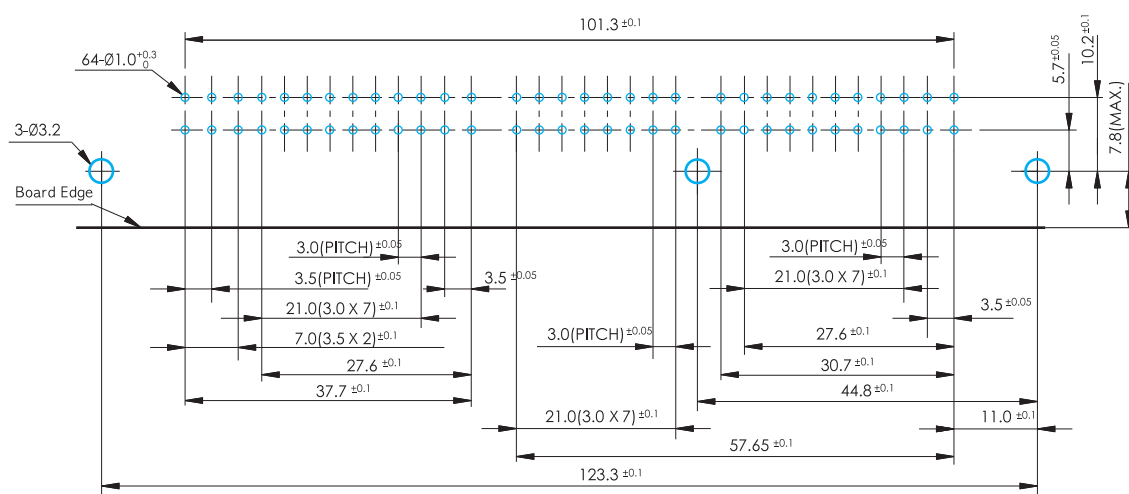
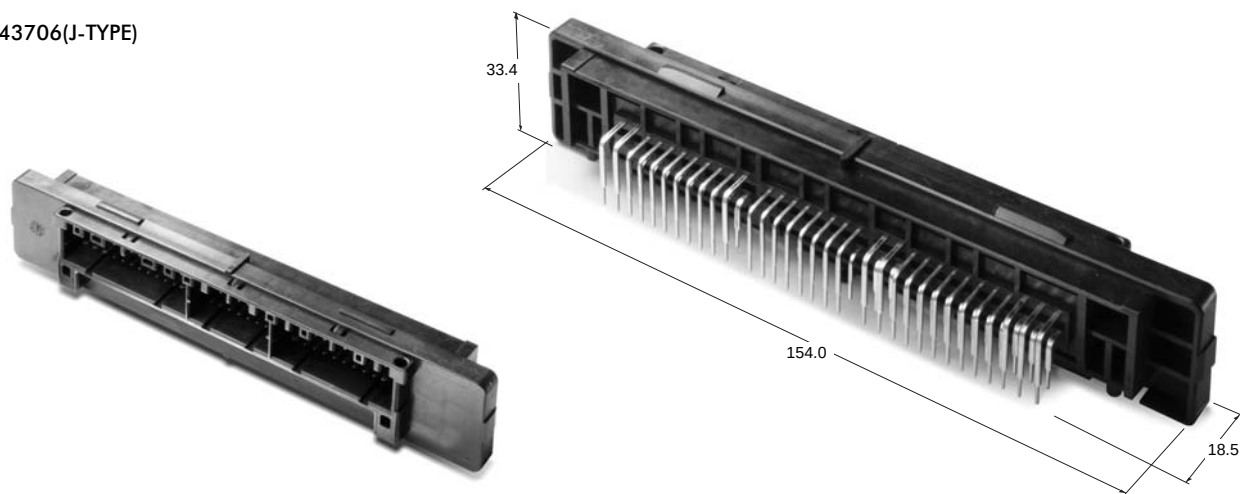


(040 48P+070 16P)

Suitable Connector: MG 611336(26P), MG 611334(22P), MG 611332(16P)

PCB (ECU & TCU)

MG 643706(J-TYPE)



GOLD PLATE TERMINAL(■ MARK)

PCB(ECU & TCU 64P, 76P) CONNECTOR

ECU 76P CONNECTOR

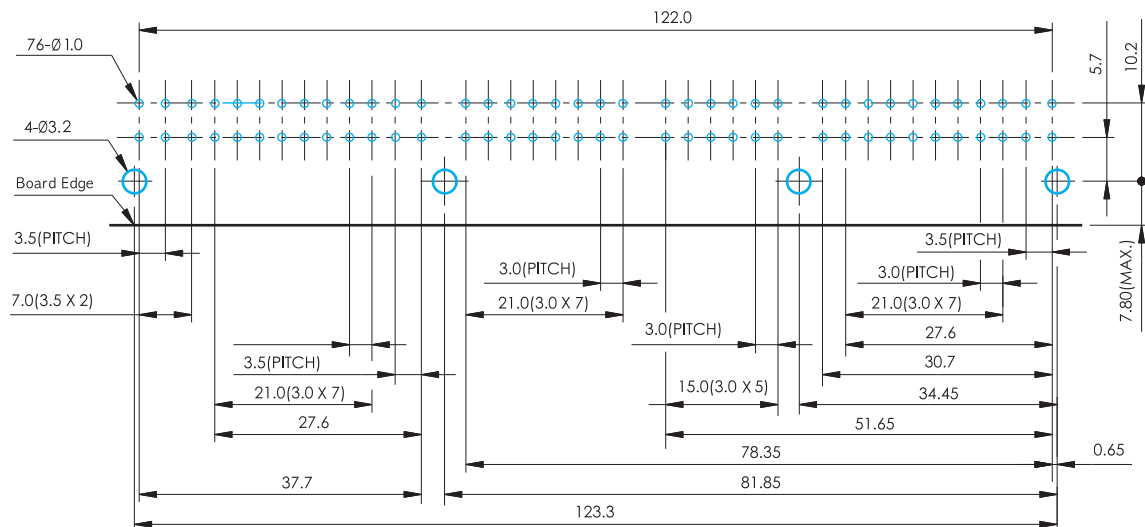
MG 641551(J-TYPE)

MG 611336

MG 611332

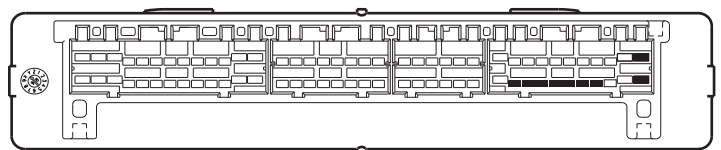
MG 611330

MG 611334



ECU 76P CONNECTOR

MG 641551-5(J-TYPE)



GOLD PLATE TERMINAL(■ MARK)

ECU 76P CONNECTOR

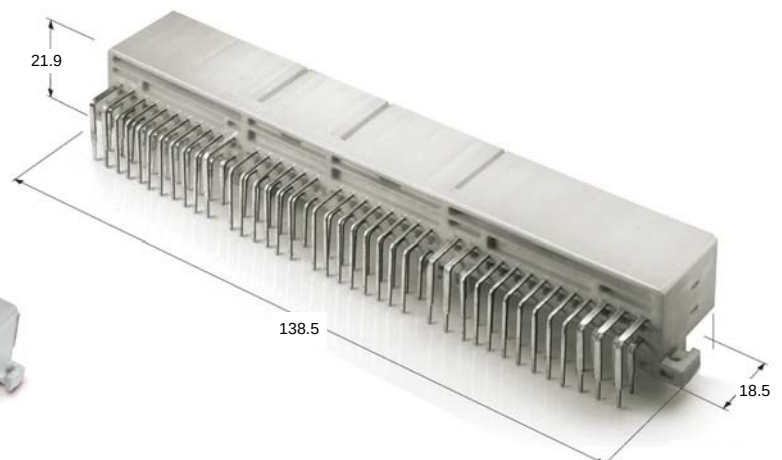
MG 641339(A-TYPE)

MG 611336

MG 611332

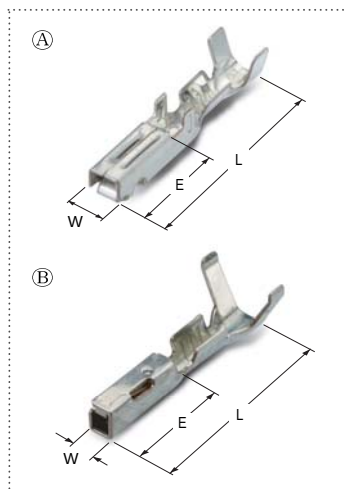
MG 611330

MG 611334



PCB(ECU & TCU 64P, 76P) CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST731099-3	26-24	CHFUS 0.13~0.22	0.64	0.25	Copper Alloy Pre-Tin	18.1	7.0	2.7	A
ST730497-3	22-18	AVSS 0.3~0.85	0.64	0.25	Copper Alloy Pre-Tin	18.1	7.0	2.7	
ST730498-3	16-14	AVSS 1.25-2.0	0.64	0.25	Copper Alloy Pre-Tin	18.1	7.0	2.7	
ST731006-3	26-24	CHFUS 0.13~0.22	0.64	0.25	Copper Alloy Pre-Tin	14.2	6.2	1.85	B
ST730671-3	22-20	AVSS 0.3~0.5	0.64	0.25	Copper Alloy Pre-Tin	14.2	6.2	1.85	

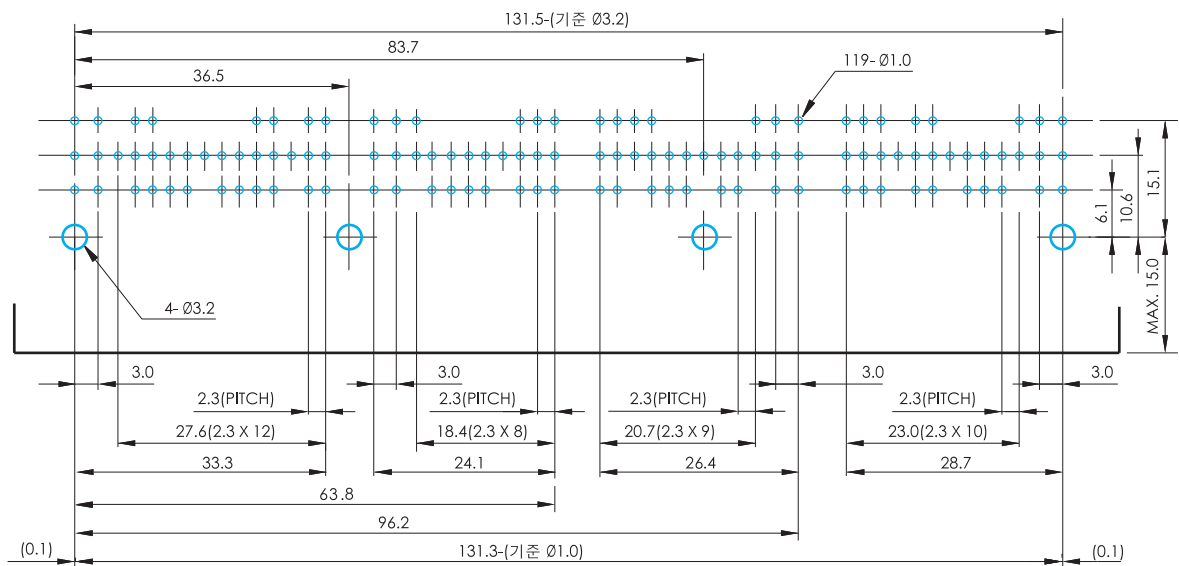
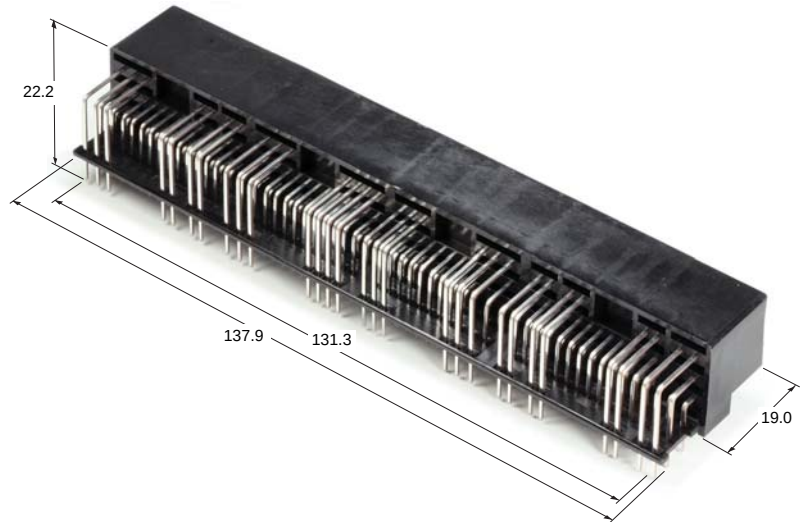
HOUSING

Poles	Plug housing for female terminal	Rear Holder
12	MG611330 	MG631331-7
16	MG611332 	MG631333-7
22	MG611334 	MG631335-7
26	MG611336 	MG631337-7

PCB(ECU & TCU 93P, 119P) CONNECTOR

ECU 119P CONNECTOR

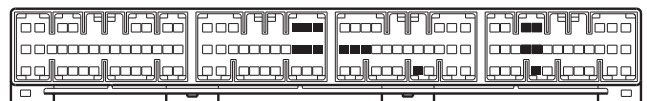
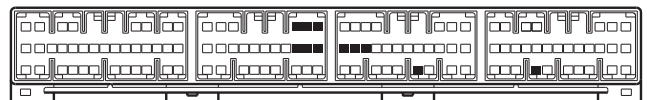
MG 641554



GOLD PLATE TERMINAL (■ MARK)

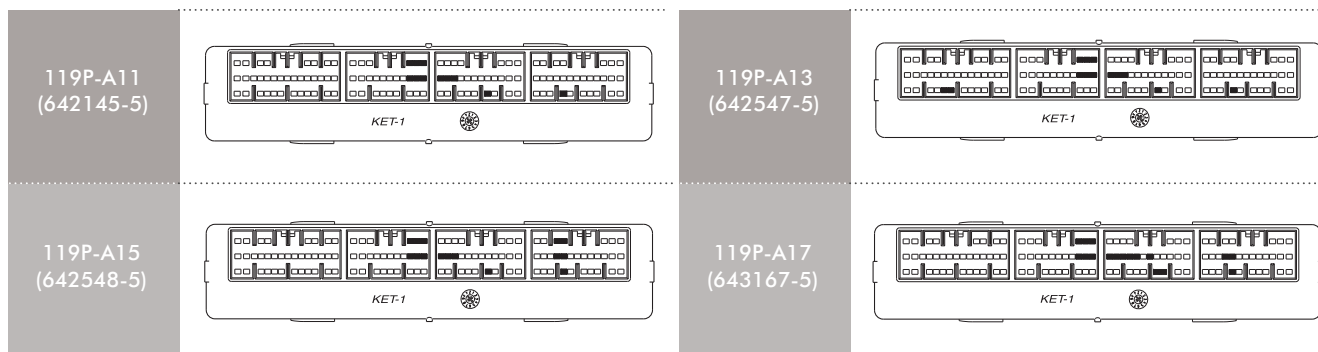
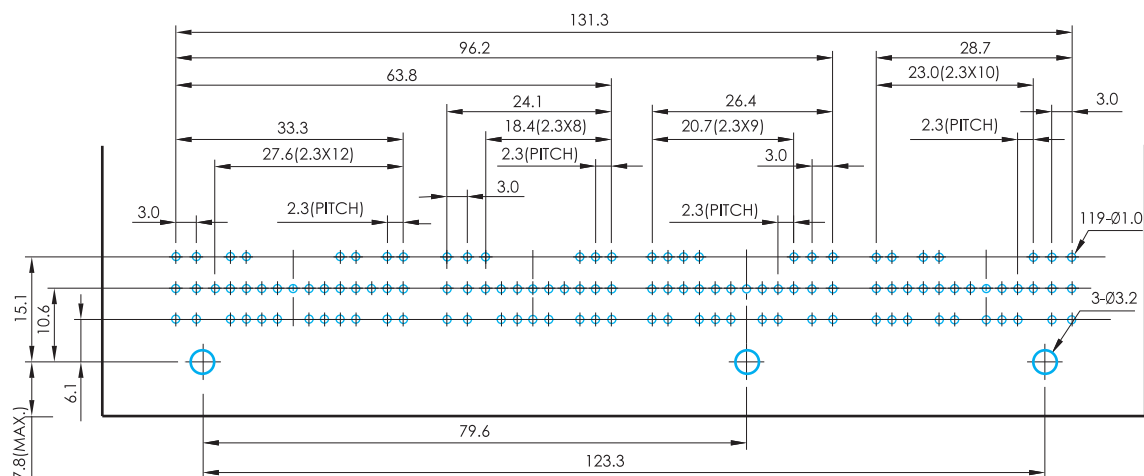
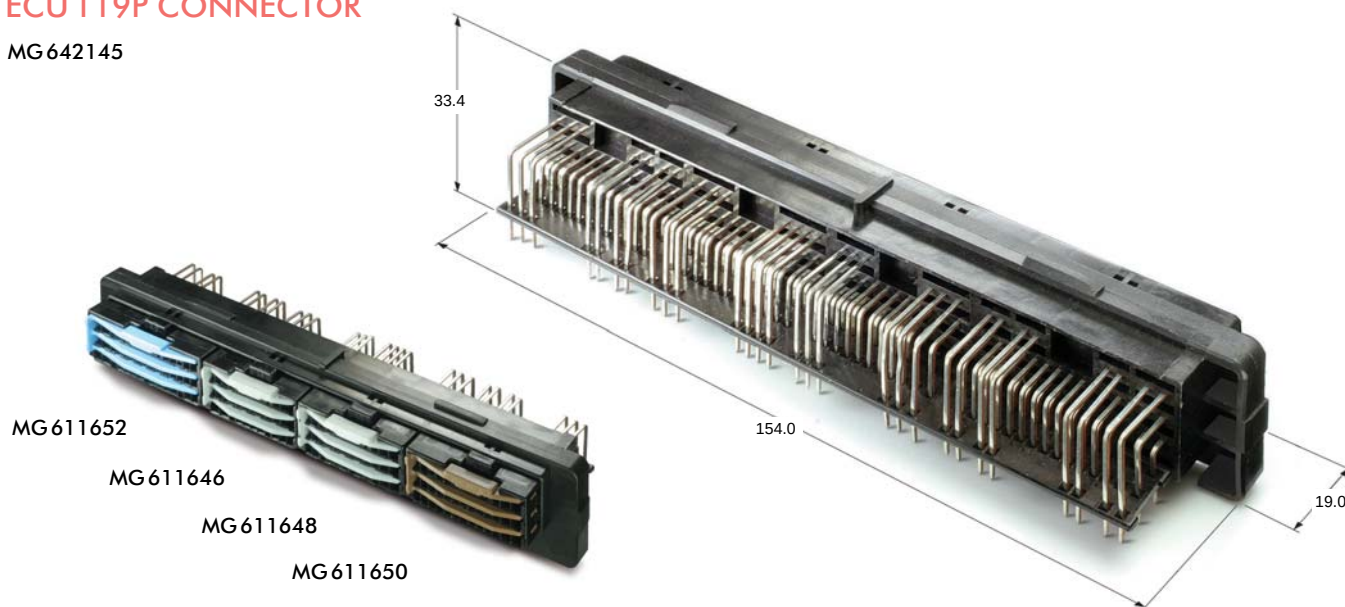
119P-A11
(641554-5)

119P-A15
(642303-5)



PCB (ECU & TCU)

MG 642145



KOREA ELECTRIC TERMINAL CO., LTD.
www.ket.com

PCB(ECU & TCU 93P, 119P) CONNECTOR

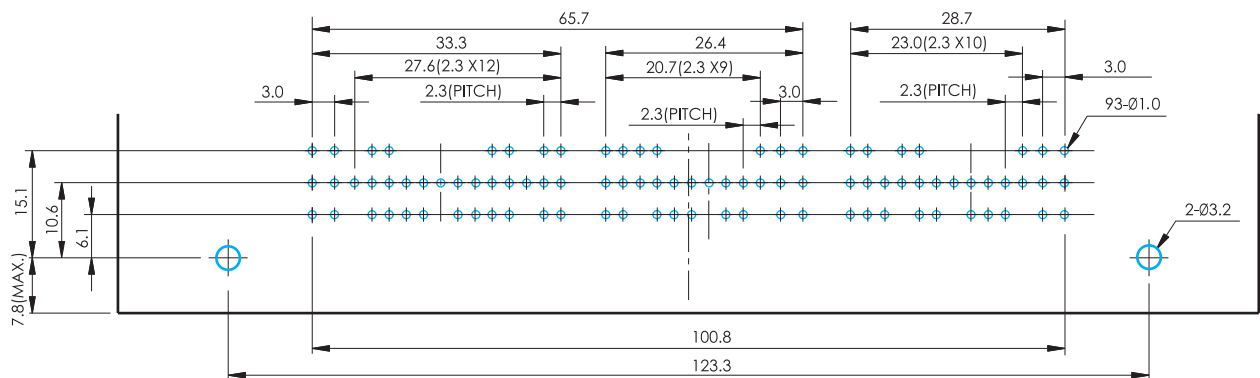
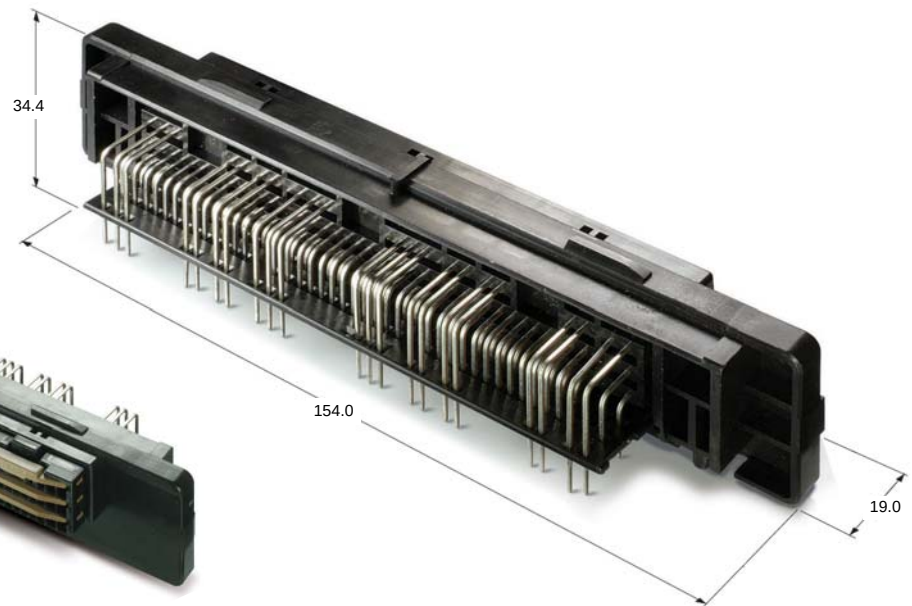
ECU 93P CONNECTOR

MG 642491

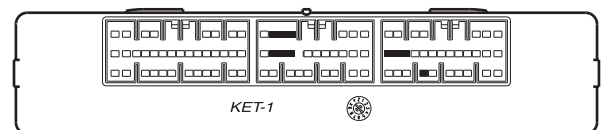
MG 611652

MG 611648

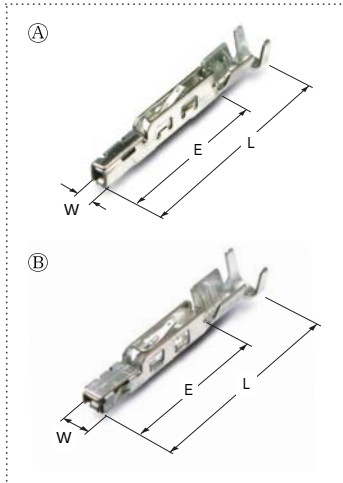
MG 611650



GOLD PLATE TERMINAL (■ MARK)



PCB(ECU & TCU 93P, 119P) CONNECTOR



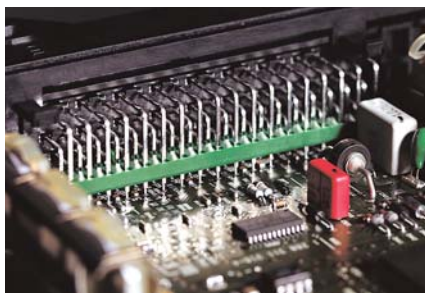
TERMINAL

Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST730760-3	22-18	AVSS 0.3~0.85	0.64	0.25	Copper-Alloy Pre-Tin	18.7	12.8	1.4	A
ST730760-G	22-18	AVSS 0.3~0.85	0.64	0.25	Au Plating	18.7	12.8	1.4	
ST730762-3	20~16	AVSS 0.5~1.25	0.64	0.25	Copper-Alloy Pre-Tin	19.4	12.8	2.2	B

HOUSING

Poles	Plug housing for female terminal	Rear Holder
20	MG612467 	MG632468
26	MG611646 	MG631647-2
28	MG611648 	MG631649
30	MG611650 	MG631651-7
35	MG611652 	MG631653-2

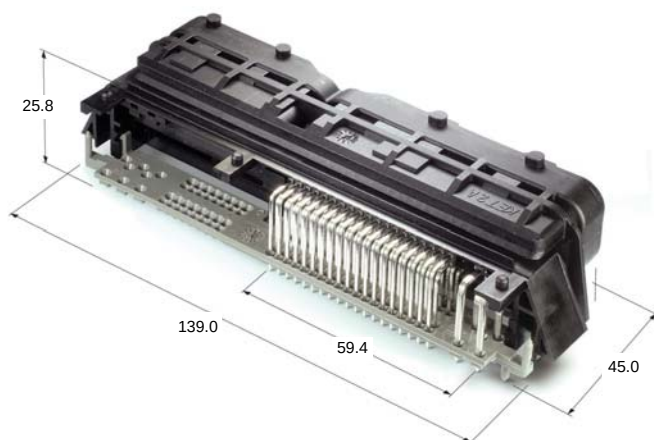
PCB(ECU & TCU 81P,121P) CONNECTOR



- ▶ Small size, multi-pole connector with improved multi-pole circuit construction and convenient splicing in an automobile.
- ▶ Applicable male terminal in .070 "(1.8mm)width and with 3.5mm pitch.

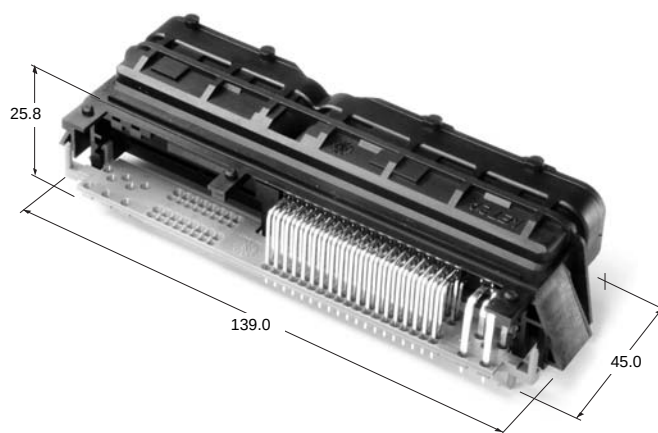
ECU 81P CONNECTOR

MG 642475 / MG 643700



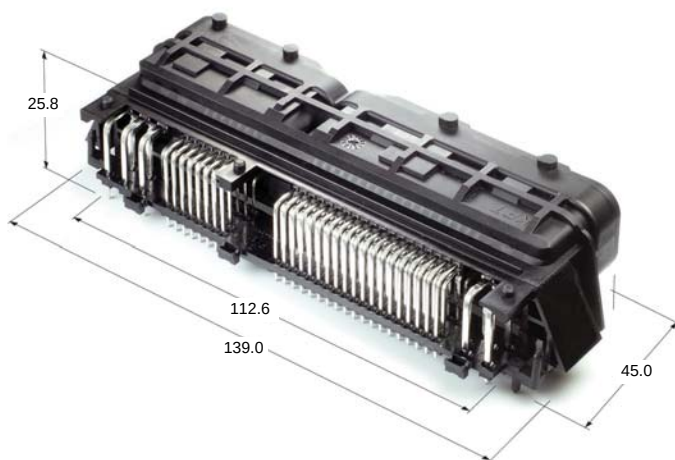
ECU 81P CONNECTOR

MG 641855



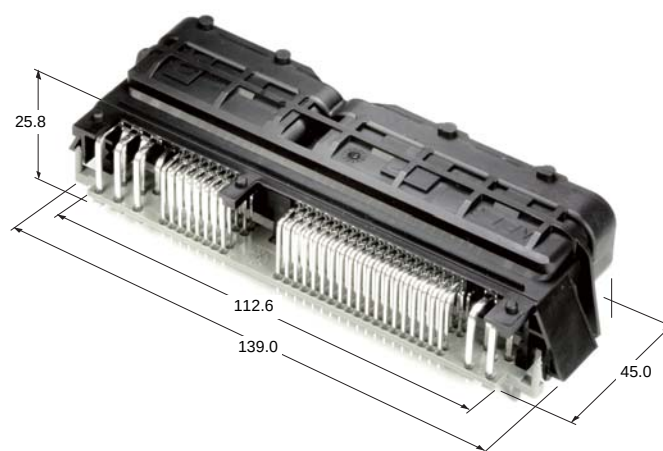
ECU 121P CONNECTOR

MG 641756



ECU 121P CONNECTOR

MG 642474



PCB(ECU& PCU 196P) CONNECTOR

ECU 196P CONNECTOR

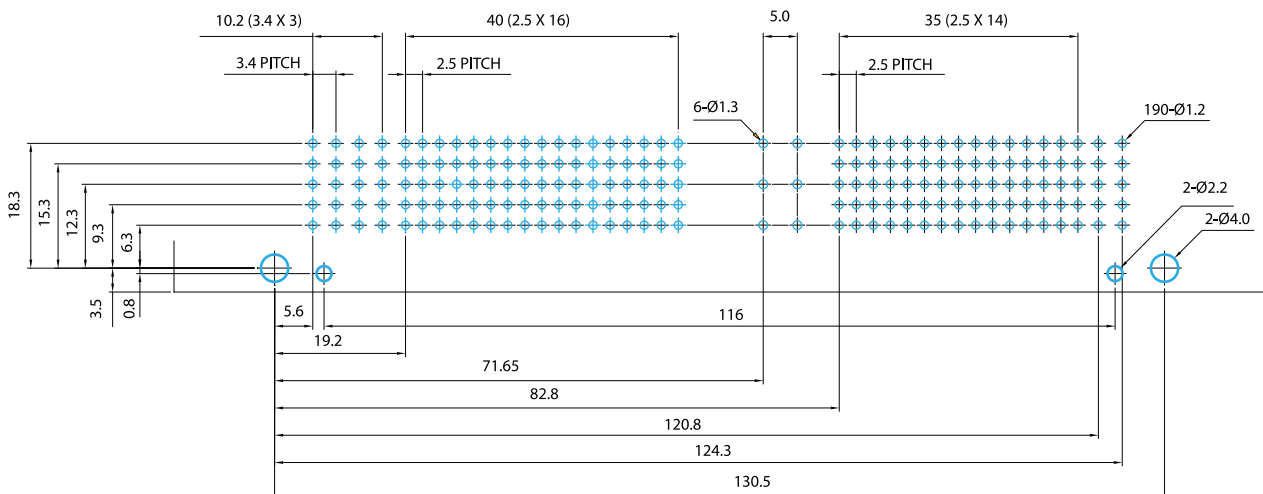
MG644148



- Suitable for a system transmits the signals sent by the sensor in a micro-computer equipped in an engine controlling unit.
- Strong durability against vibration and excellent connection.
- Multi pole and water proof connector

105 PIN	91 PIN
1.2 mm tab 105EA	1.2 mm tab 85EA
	2.8 mm tab 6EA

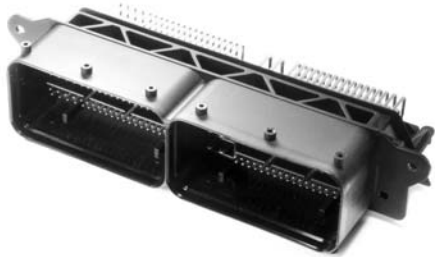
- Double locking system with inner body.
- They are high-quality, high-performance connectors.



PCB(ECU& PCU 196P) CONNECTOR

ECU 196P CONNECTOR

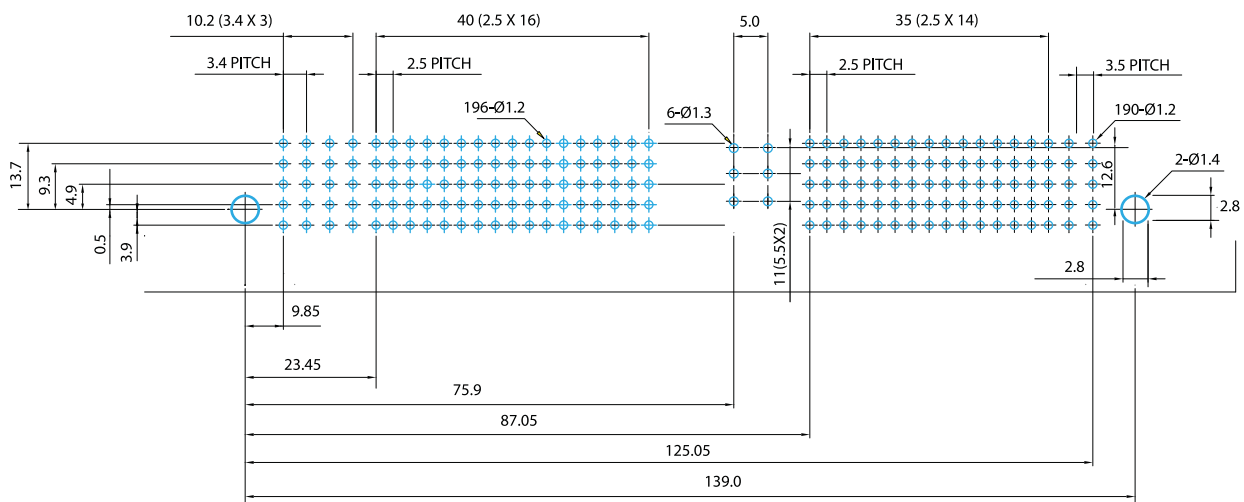
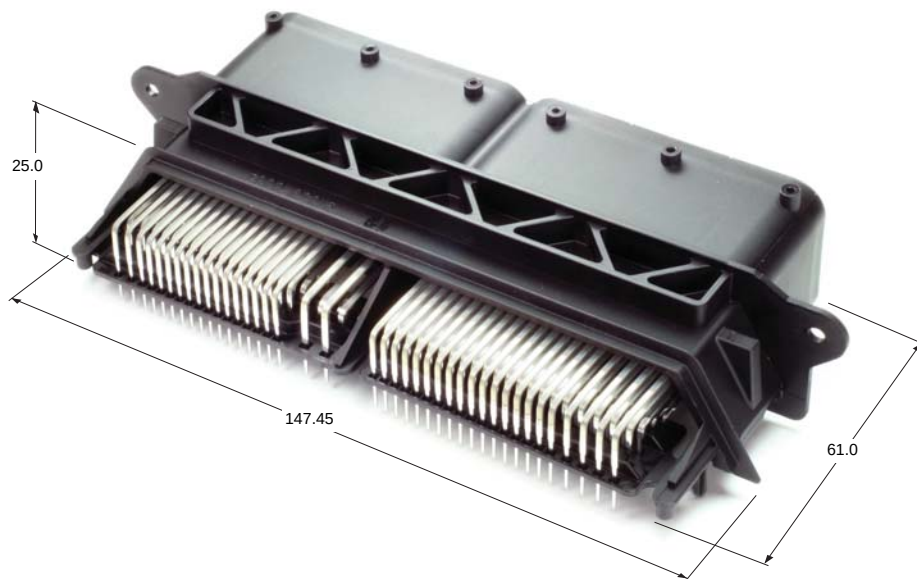
MG 645035



- Suitable for a system transmits the signals sent by the sensor in a micro-computer equipped in an engine controlling unit.
- Strong durability against vibration and excellent connection.
- Multi pole and water proof connector

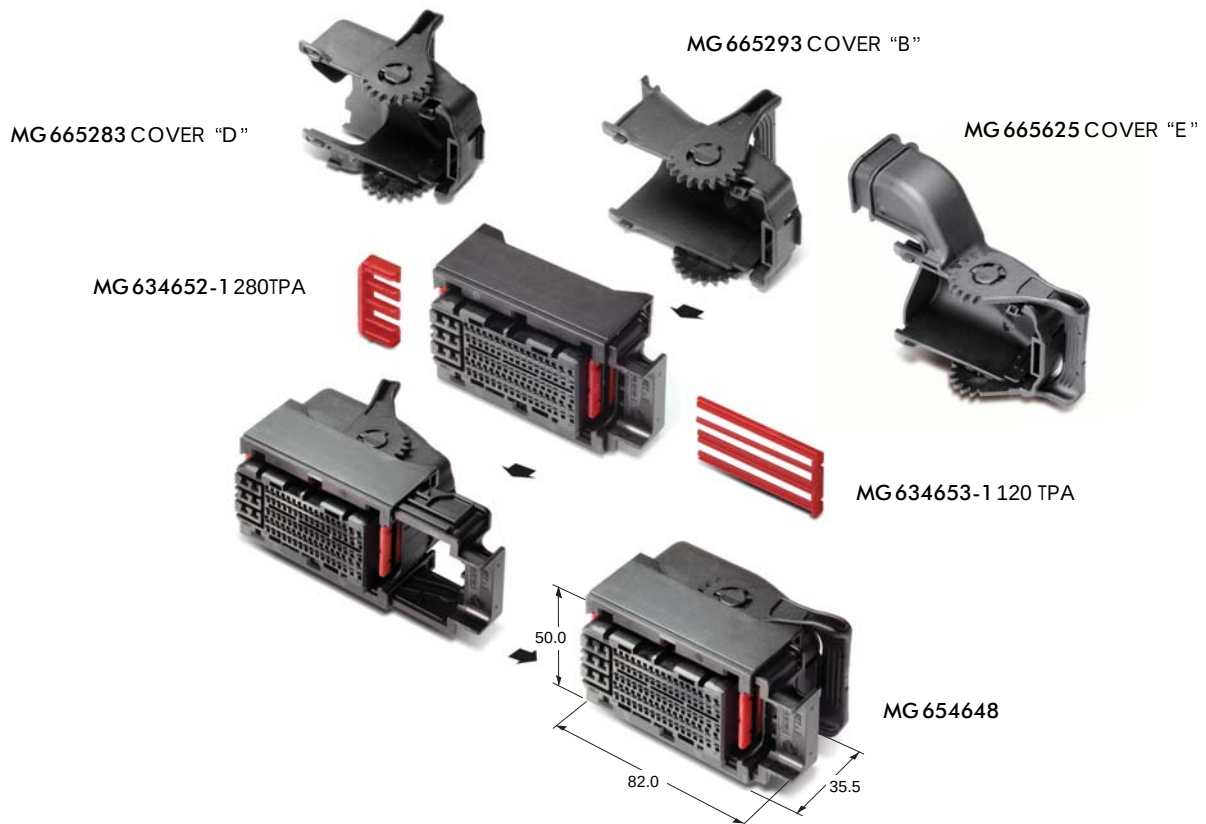
105 PIN	91 PIN
1.2 mm tab 105EA	1.2 mm tab 85EA
	2.8 mm tab 6EA

- Double locking system with inner body.
- They are high-quality, high-performance connectors.



PCB(ECU& PCU 196P) CONNECTOR

ECU 91P CONNECTOR



ECU 105P CONNECTOR

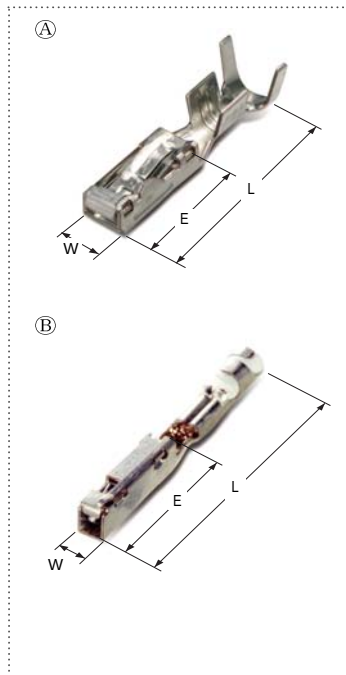


PCB(ECU& PCU 196P) CONNECTOR

- Suitable for a system transmits the signals sent by the sensor in a micro-computer equipped in an engine controlling unit.
- Strong durability against vibration and excellent connection.
- Multi pole and water proof connector
- Double locking system with inner body.
- They are high-quality and high-performance connectors.

105 PIN	91 PIN
1.2 mm tab 105EA	1.2 mm tab 85EA
	2.8 mm tab 6EA

TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm²		Thick.	Finish	L	€	W	
ST731152-3	16-14	AEXF 1.25 AESSXF 2.0~2.5	0.8	0.32	Copper Alloy Pre-Tin	19.3	9.5	4.0	A
ST731314-3	22	AVSS(AESSXF) 0.3	0.64	0.2	Copper Alloy Pre-Tin	16.7	7.5	1.8	
ST731163-3	20-18	AVSS(AESSXF) 0.5~0.85	0.64	0.2	Copper Alloy Pre-Tin	16.7	7.5	1.8	B
ST731164-3	17-16	AVSS(AESSXF) 1.0~1.25	0.64	0.2	Copper Alloy Pre-Tin	16.7	7.5	1.8	

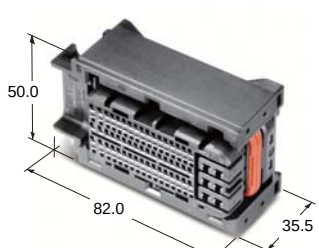
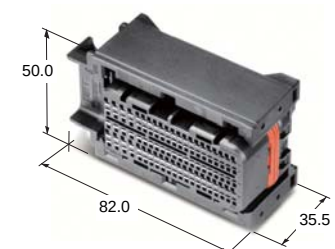
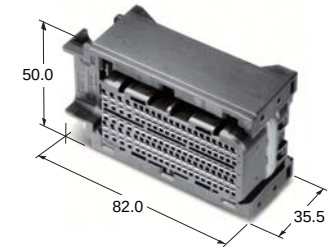
WIRE SEAL(2.8mm)

Part No.	Wire Range mm²	Material	Color	Dimension(mm)		Type
				L	€	
MG685248	AEXF 1.25 AESSXF 2.0	Silicone	Blue	8.5	5.7	C
MG685259	AEXF 2.0 AESSXF 2.5	Silicone	Black	8.5	5.7	

©



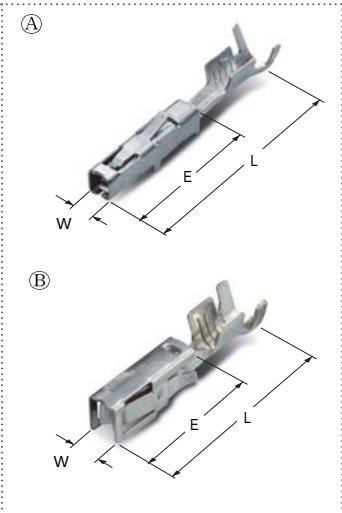
CONNECTOR

Poles	Receptacle housing for female terminal	Poles	Receptacle housing for female terminal
91	MG 654648 	105	MG 654659 
			MG 655735 

PCB(ECU & TCU 40P) CONNECTOR

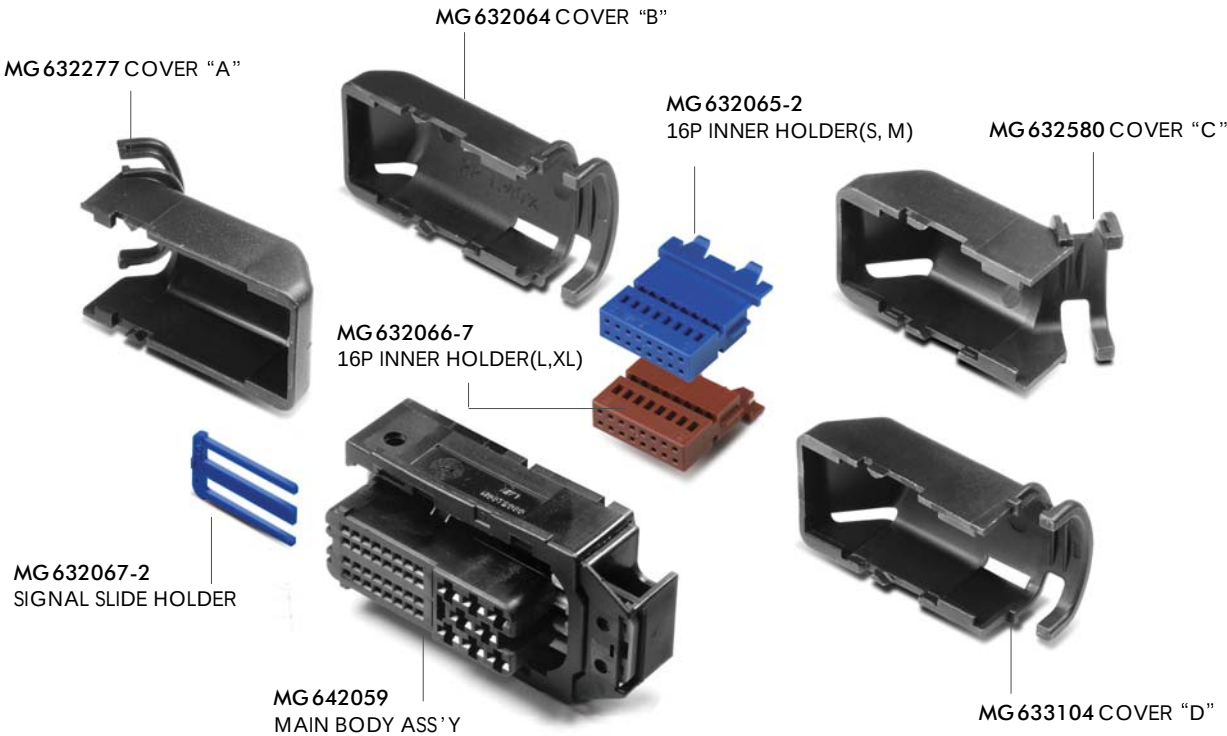
ECU 40P CONNECTOR

MG 642059



TERMINAL

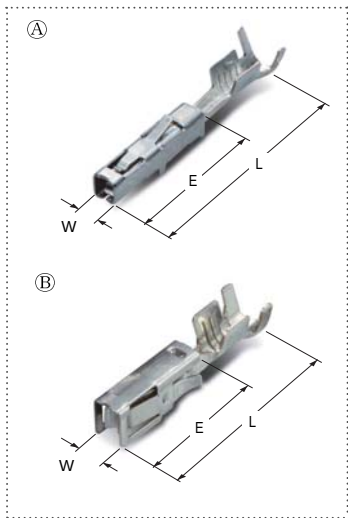
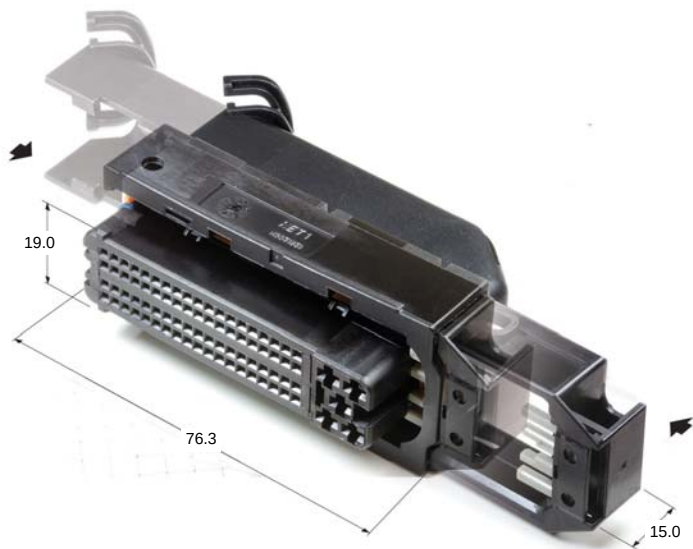
Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST730799-3	22-20	AVSS 0.3 -0.5	0.64	0.2	Copper-Alloy Pre-Tin	15.9	8.7	1.9	Ⓐ
ST730800-3	16-14	AVSS 1.25 -2.0	0.64	0.2	Copper-Alloy Pre-Tin	18.3	10.0	3.0	
ST730807-3	20-18	AVSS 0.5 -0.85	0.64	0.2	Copper-Alloy Pre-Tin	18.3	10.0	3.0	Ⓑ
ST730933-3	13	AVSSXF 2.5	0.64	0.2	Copper-Alloy Pre-Tin	18.3	10.0	3.0	



PCB(ECU & TCU 81P) CONNECTOR

ECU81P CONNECTOR

MG 641838



TERMINAL

Part No.	Wire Range		Tab Thick.	Thick.	Material	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST 730799-3	22-20	AVSS 0.3 -0.5	0.64	0.2	Copper-Alloy Pre-Tin	15.9	8.7	1.9	A
ST 730800-3	16-14	AVSS 1.25 -2.0	0.64	0.2	Copper-Alloy Pre-Tin	18.3	10.0	3.0	
ST 730807-3	20-18	AVSS 0.5 -0.85	0.64	0.2	Copper-Alloy Pre-Tin	18.3	10.0	3.0	B
ST 730933-3	13	AVSSXF 2.5	0.64	0.2	Copper-Alloy Pre-Tin	18.3	10.0	3.0	

MG 633105 COVER "D"

MG 631834-7
38P INNER HOLDER(L,XL)

MG 631833-2
38P INNER HOLDER(S, M)

MG 631840 COVER "A"

MG 632142
COVER "B"

MG 633423 COVER "E"

MG 631839-2
SIGNAL SLIDE HOLDER

MG 641838
MAIN BODY ASS'Y

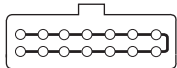
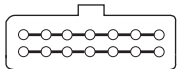
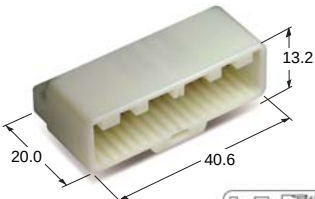
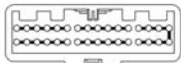
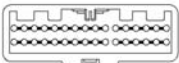
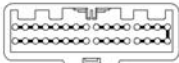
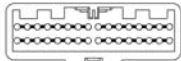
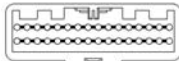
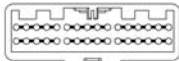
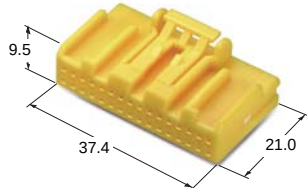
MG 633103 COVER "C"

JOINT CONNECTOR

- ▶ Small-sized connector
- ▶ Excellent waterproof function
- ▶ Double Locking structure with rear holder
- ▶ Ensuring complete connection.



JOINT

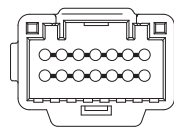
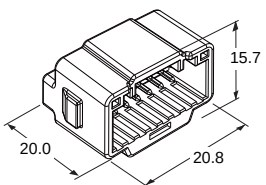
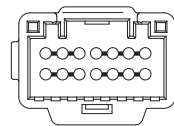
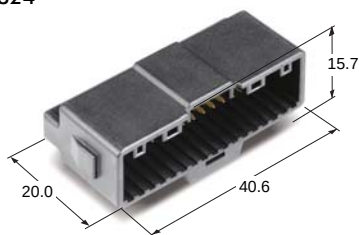
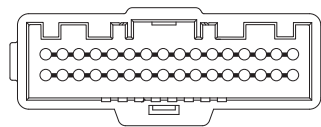
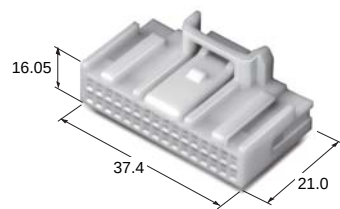
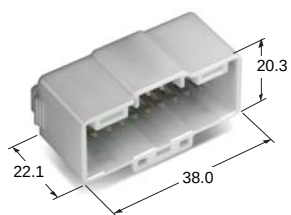
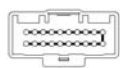
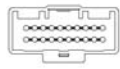
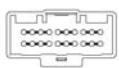
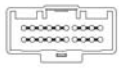
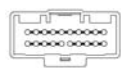
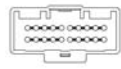
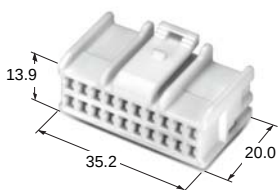
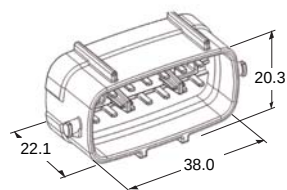
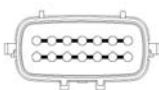
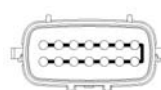
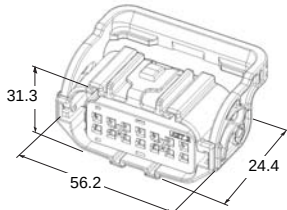
Poles	Circuit pattern splice pack	Plug housing for female terminal
14	025 WP JOINT MG 655671  	MG 645724 
	MG 655672  	
32	025 JOINT MG 645642        	MG 654922-3 

JOINT CONNECTOR

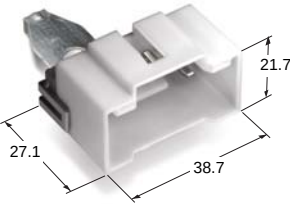
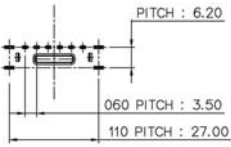
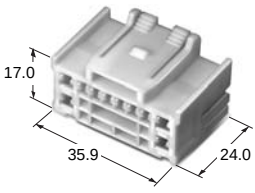
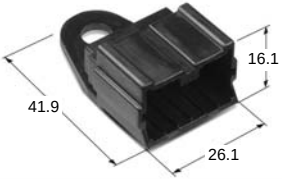
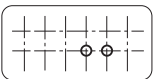
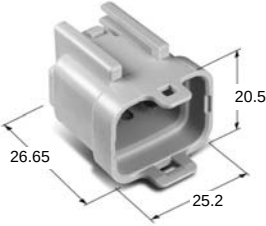
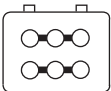
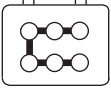
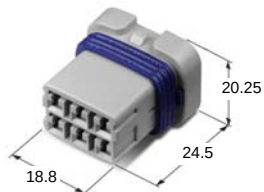
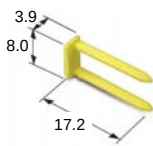
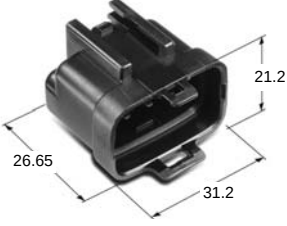
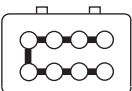
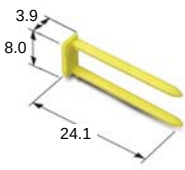
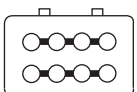
- Small-sized connector
- Excellent waterproof function
- Double Locking structure with rear holder
- Ensuring complete connection.



JOINT

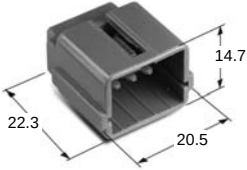
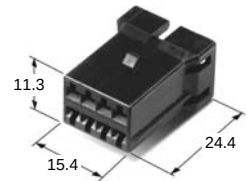
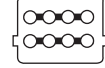
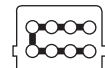
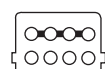
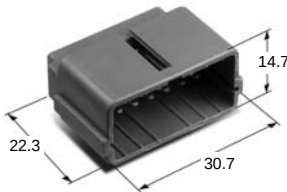
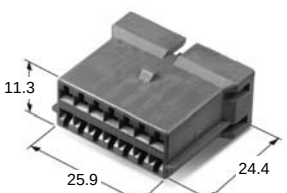
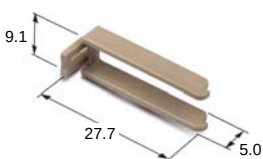
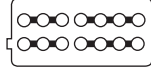
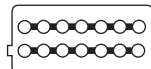
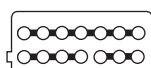
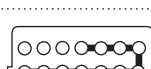
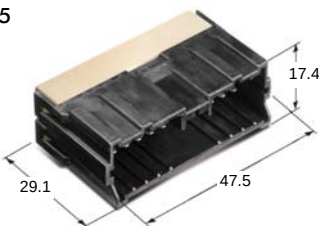
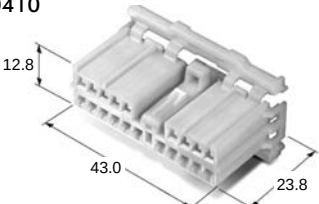
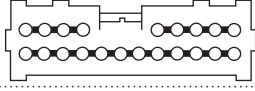
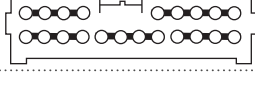
Poles	Circuit pattern splice pack		Plug housing for female terminal
02511 JOINT			
14	MG 645818	 	MG 655772
	MG 645819	 	
	MG 645824	 	
32			MG 655777
			
060 JOINT			
20	MG 645650	   MG 645693-6	MG 655633
		  MG 645691-2	
		  MG 645692-4	
			
060 WP JOINT			
14	MG 655700	  MG 655700(7+7)	MG 645754
		 MG 655700(14)	
			

JOINT CONNECTOR

Poles	Circuit pattern splice pack	Plug housing for female terminal
10	060110 JOINT MG 645206  	MG 655203 
	070 JOINT MG 641292  	
6	ASC WP JOINT MG 643047-4   MG 642581 	MG 652582  MG 632589-3 
	MG 642583   Suitable Terminal: 09011 WP	MG 652584  MG 632592-3 
8	MG 643362-41  	
	250 JOINT MG 651977-40  	

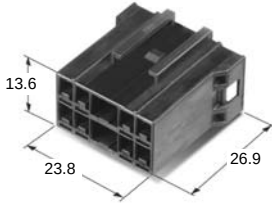
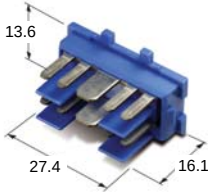
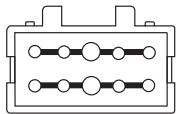
JOINT CONNECTOR(Splice-pack)

070 JOINT HOUSING

Poles	Plug housing for female terminal	Circuit pattern splice pack			
8	MG 641751-4  MG 630751-7  MG 610750 	Circuit	Non Clip Type	Clip Type	
				Before Clip Ass'y	After Clip Ass'y
			MG 640930	MG 641323	MG 640935 MG 640936 MG 641244
			MG 640753-5	MG 641324-5	MG 640933-5 MG 640934-5 MG 641243-5
			MG 641751-4		
14	MG 640906-4  MG 610754  MG 630755-7 		MG 640976-3	MG 641329-3	MG 641149-3 MG 641150-3 MG 641248-3
			MG 640929	MG 641328	MG 641147 MG 641148 MG 641247
			MG 640757-5	MG 641326-5	MG 641143-5 MG 641144-5 MG 641245-5
			MG 640906-4	MG 641327-4	MG 641145-4 MG 641146-4 MG 641246-4
			MG 641752-7		
			MG 641938-6		
			MG 641964-2		
			MG 643137		
21	MG 640615  MG 610410 			MG 640615	MG 640791-5 MG 640792-5
				MG 640995	MG 641131 MG 641132

JOINT CONNECTOR(Splice-pack)

1809 JOINT

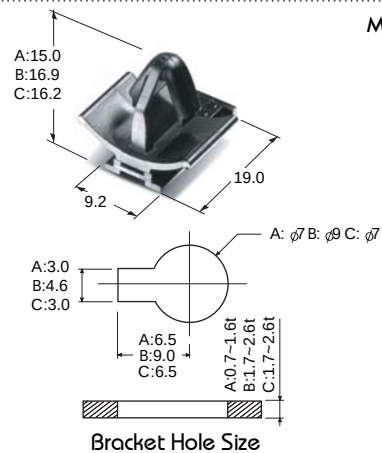
Poles	Plug housing for female terminal	Circuit pattern splice pack	Joint housing
10	MG 621725 		MG 651727-2 



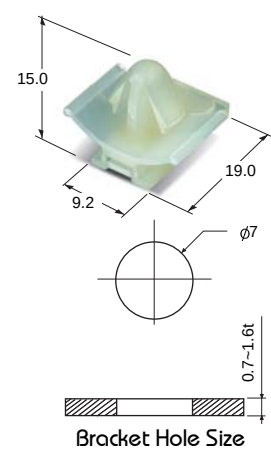
- ▶ Small size, multi-pole connector with improved multi-pole circuit construction and convenient splicing in an automobile.
- ▶ Applicable male terminal in .070" (1.8mm) width and with 3.5mm pitch.

CLIP

MG 630418 (7 ϕ -A)
 MG 630559 (9 ϕ -B)
 MG 631467 (7 ϕ -C)

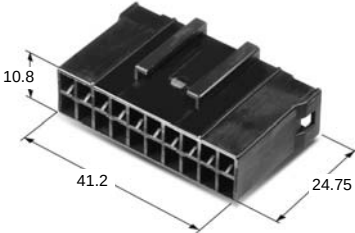
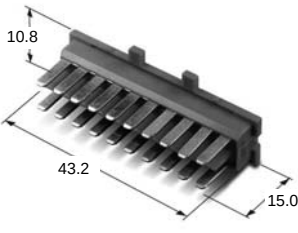
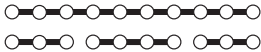
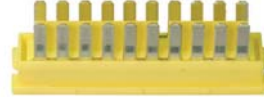


MG 630922

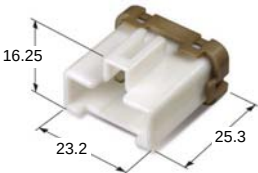
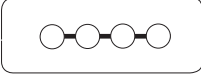
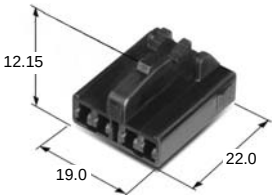
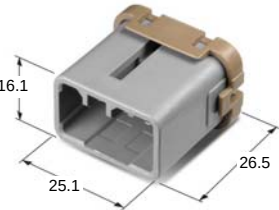
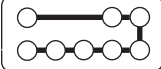
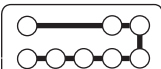
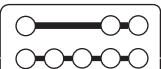
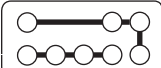
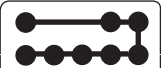


JOINT CONNECTOR(Splice-pack)

090 JOINT

Poles	Plug housing for female terminal	Circuit pattern splice pack
	MG 621500 	
20	MG 651502-2  	MG 651503-4  
	MG 651504-5  	MG 651740  
	MG 651770-9  	MG 651780-7  
	MG 652040-1  	MG 652041-3  

090II JOINT

Poles	Plug housing for female terminal	Circuit pattern splice pack
4	MG 642349 MG 642348(Non clip) 	
	MG 651038 	
8	MG 651050 	NON CLIP TYPE (● GOLD PLATE TERMINAL) MG 642486  MG 642670 
		MG 642667  MG 642673 
		CLIP TYPE MG 643309-2  MG 643398-7 
		MG 643468-6  MG 643469-5 

JOINT CONNECTOR(Splice-pack)

090II JOINT

Poles	Plug housing for female terminal	Circuit pattern splice pack
	MG 621818 MG 631817-2 	
	MG 651822-2 	MG 651823-3
	MG 651824-40 	MG 651825-5
20	MG 651826-6 	MG 651827-7
	MG 652674 	MG 651829-9
	MG 651828-1 	MG 651932-41
	MG 651830 	MG 651820-11
	MG 651990-8 	MG 653716-20

(● GOLD PLATE TERMINAL)

187 JOINT

MG 652014-3



MG 651976-2



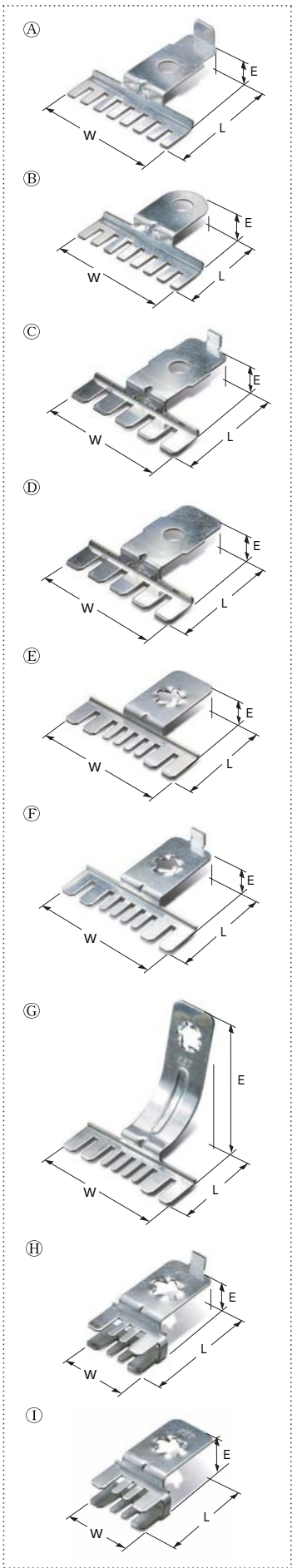
MG 651975-9



MG 652013-8



EARTH CONNECTOR

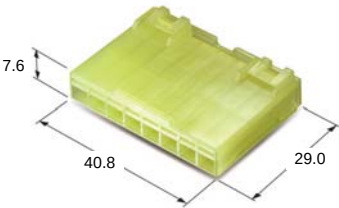


GLASS ANT. TERMINAL

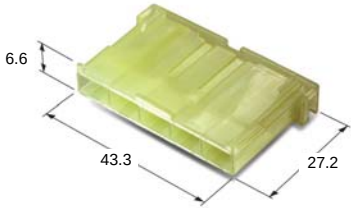
Part No.	Wire Range		Tab		Material		Dimension(mm)			Type
	AWG	mm ²	Thick.	Thick.	Finish		L	U	W	
GP881204-3			0.64	0.64	Brass Pre-Tin		45.3	6.8	38.0	Ⓐ
GP881213-3			0.64	0.64	Brass Pre-Tin		33.5	6.8	38.0	Ⓑ
GP881212-3			0.8	0.8	Brass Pre-Tin		42.3	6.8	40.0	Ⓒ
GP881214-3			0.8	0.8	Brass Pre-Tin		40.0	6.8	40.0	Ⓓ
GP881225-3			0.8	0.8	Brass Pre-Tin		38.4	5.1	41.4	Ⓔ
GP881221-3			0.8	0.8	Brass Pre-Tin		38.4	5.1	41.4	Ⓕ
GP881222-3			0.8	0.8	Brass Pre-Tin		33.0	40.9	41.4	Ⓖ
GP881223-3			0.8	0.8	Brass Pre-Tin		38.4	11.3	21.0	Ⓗ
GP881224-3			0.8	0.8	Brass Pre-Tin		38.4	11.3	21.0	Ⓘ

HOUSING

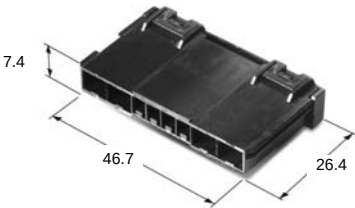
MG 630458(3mm Type: Ⓐ Ⓑ)



MG 630664(250 Type: Ⓒ Ⓓ)



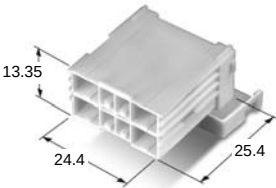
MG 631499(1809 Type: Ⓔ Ⓕ Ⓖ)



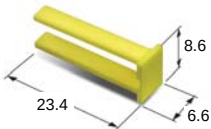
MG 631477-3



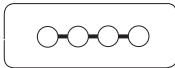
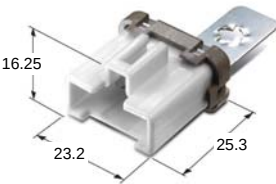
MG 631475(1809 Type: Ⓗ Ⓘ)



MG 631476-3



MG 642350



Circuit pattern

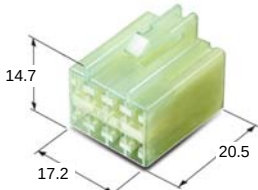
MG 612544



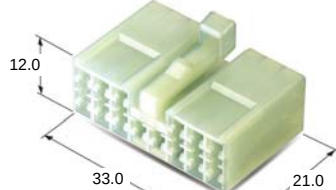
DEVICE CONNECTOR

POWER WINDOW S/W HOUSING

MG 610663(8Pole)

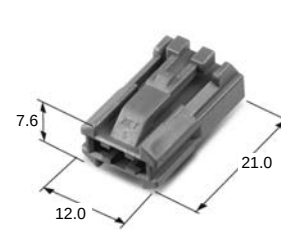


MG 610798(14Pole)

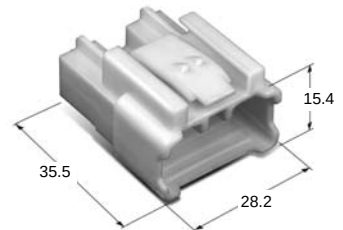


Suitable Terminal: ST730365, ST730366

MG 610850-4



MG 620833(10Pole)



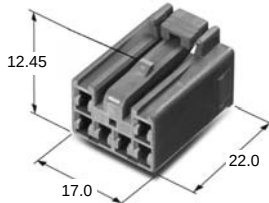
MIRROR HOUSING

Poles

Plug housing for female terminal

Receptacle housing for male terminal

MG 651044

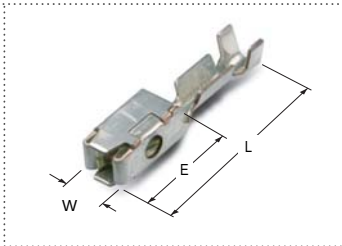


MG 641796



Suitable Terminal: 090II Terminal

GLASS ANT. TERMINAL



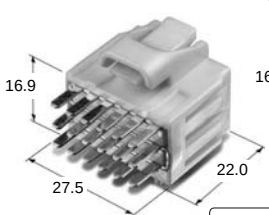
Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST780873-3	22-20	AVSS 0.3-0.5	0.8	0.4	Pre-Tin	19.8	8.2	4.4	
ST780868-3	14-12	AVSS 2.0 AVS 2.0~3.0	0.8	0.4	Pre-Tin	19.8	8.2	4.4	

MG 612200

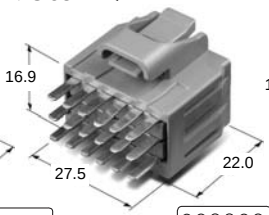


AMPHIASTER HOUSING

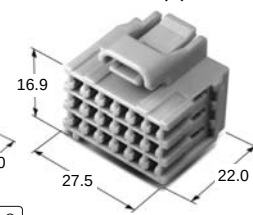
MG 652533



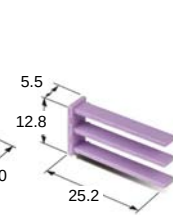
MG 652429



MG 611810-41(R)



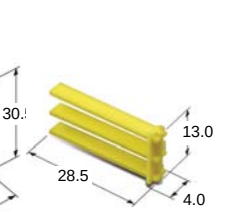
MG 631811-9



MG 622427



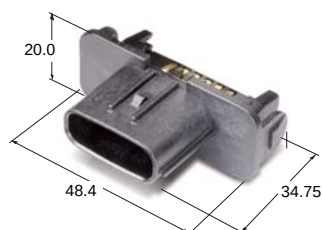
MG 631808-3



ACCEL PEDAL SENSOR HOUSING

MG 665768

6



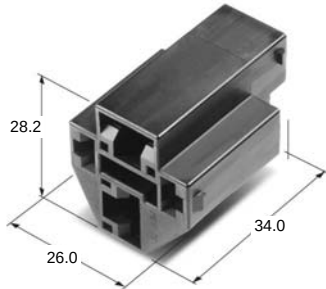
MG 635688(COVER)



RELAY CONNECTOR

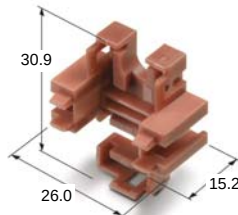
CONNECTOR FOR RELAY

- Hybrid type connector for relay suitable for the features of power & signal circuit.
- Various application to mini, micro or etc..
- Terminal mis-insertion protection through double locking structure with rear holder.

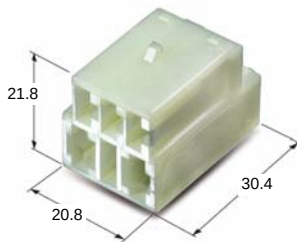
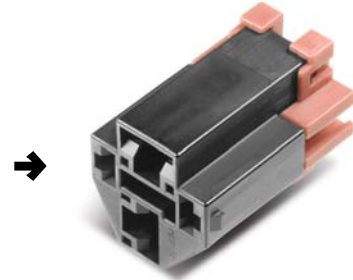


MG612017

Suitable Terminal: 375 Type : ST730722, ST730723
250 D/L Type : ST730467, ST730468, ST730469

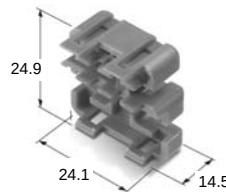


MG632018-7(R/H)

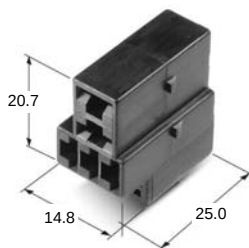
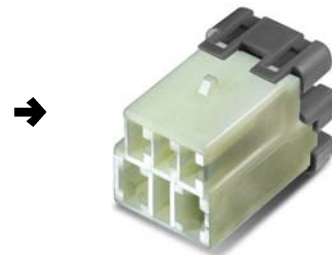


MG612109

Suitable Terminal: 312 Type : ST730852
250 D/L Type : ST730467, ST730468, ST730469

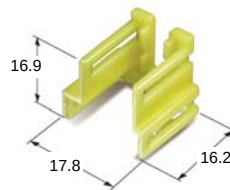


MG632110-4(R/H)

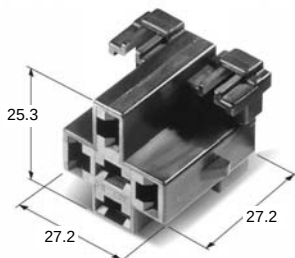
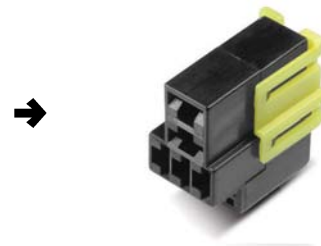


MG612135

Suitable Terminal: 250 D/L Type : ST730467, ST730468, ST730469
187 D/L Type : ST730602, ST730603
Suitable CLIP: 090II Clip

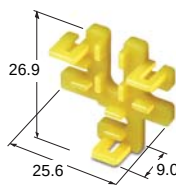


MG632136-3(R/H)

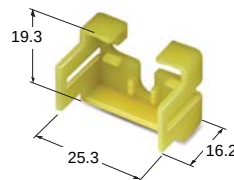


MG640927

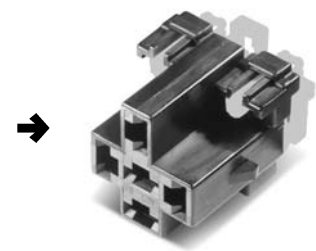
Suitable Terminal: 250 D/L Type : ST730467, ST730468, ST730469



MG632138-3(R/H)

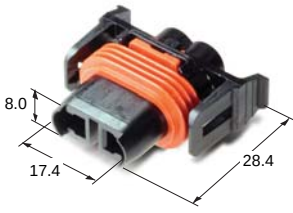
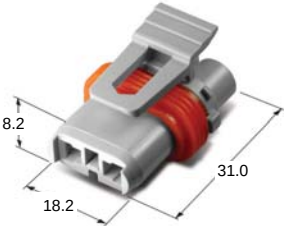
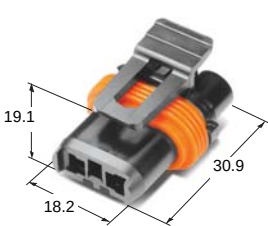
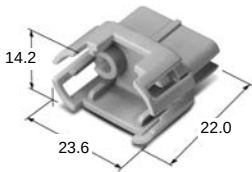
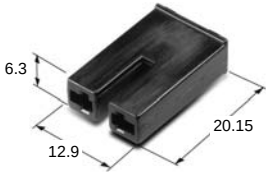
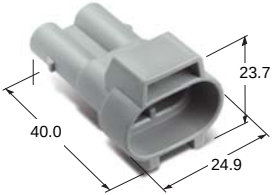
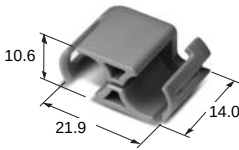


MG632139-3(R/H)



FOG LAMP CONNECTOR

FOG LAMP

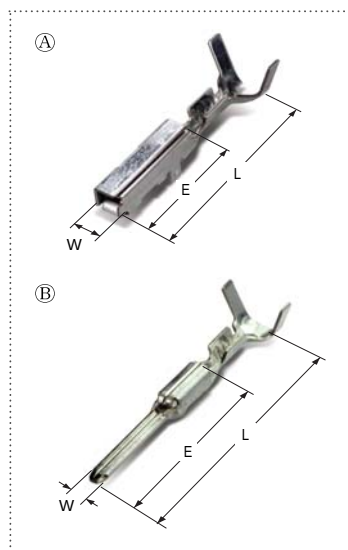
Poles	Plug housing for female terminal		Rear Holder
2	MG 652520(881 BULB, H8 BULB)	MG 653144(880BULB)	MG 632506(R/H) 881-MG632506(Cover Type) MG633603(Non Cover Type) 880-MG633676-7
			
	MG 653701(881 BULB, H8 BULB)	MG 654491	
			
	MG 653426-4(9006)	MG 654844(9005)	MG 633542(R/H)
			
	MG 612578		
			
	Suitable Terminal: ST 730052		
Poles	Receptacle housing for male terminal		Rear Holder
2	MG 635586-4		MG 635587-4
			
	Suitable Terminal: ST 740530, ST 740531		

FOG LAMP

HEAD LAMP CONNECTOR(N060WP)

- The 060 Connector is waterproof connector with blade width of 0.060 inch (1.5mm)
- Double locking mechanism to prevent terminal and Pre-set holder push-out
- Unification of spacer assures complete terminal insertion

TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST731367-3	24	CHFUS 0.22	0.64	0.25	Copper Alloy Pre-Tin	17.5	8.5	2.2	A
ST731368-3	22-20	AEXF(AVSSXF) 0.3~0.5	0.64	0.25	Copper Alloy Pre-Tin	17.5	8.5	2.2	
ST731369-3	18-16	AEXF(AVSSXF) 0.85~1.25	0.64	0.25	Copper Alloy Pre-Tin	17.5	8.5	2.2	
ST741340-3	24	CHFUS 0.22	0.64	0.3	Brass Pre-Tin	24.7	15.7	1.5	B
ST741341-3	22-20	AEXF(AVSSXF) 0.3~0.5	0.64	0.3	Brass Pre-Tin	24.7	15.7	1.5	
ST741342-3	18-16	AEXF(AVSSXF) 0.85~1.25	0.64	0.3	Brass Pre-Tin	24.7	15.7	1.5	

WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Type
MG 685390	AEXF 0.3	Silicone	Red	C
MG 685391	AEXF 0.5	Silicone	Green	
MG 685392	AEXF 0.85	Silicone	Black	
MG 685393	AEXF 1.25	Silicone	Gray	
MG 685394	Dummy Seal	Silicone	Green	D



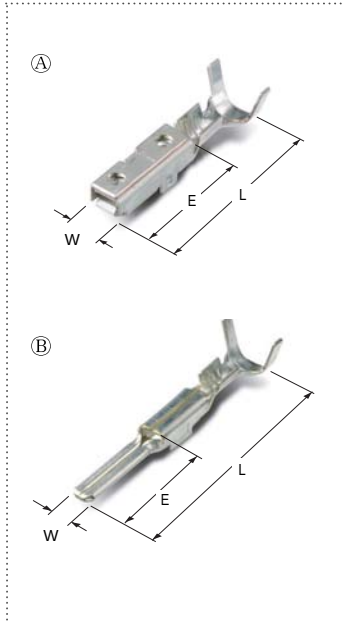
- Suitable Clip : MG 631471, MG 632019, MG 631267, MG 631929, MG 631268, MG 633815, (81Page) MG 634834, MG 633862, MG 633870, MG 632970, MG 663492, MG 635682

HOUSING

Poles	Receptacle housing for female terminal	Plug housing for male terminal
8	MG 645725	MG 655742
10	MG 645787	MG 655741

HEAD LAMP CONNECTOR(090II WP)

TERMINAL

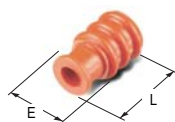


Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST 730689-3	22-20	AVSS 0.3-0.5	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	A
ST 730732-3	18-16	AVSS(CAVS) 0.85-1.25	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	
ST 730739-3	16	AEXF 1.25	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	
ST 730733-3	14	AVSS 2.0	0.64	0.25	Copper Alloy Pre-Tin	16.9	9.0	2.9	
ST 740999-3	22-20	AVSS 0.3-0.5	0.64	0.3	Brass Pre-Tin	25.9	10.3	2.3	B
ST 741000-3	18-16	AVSS 0.75-1.25	0.64	0.3	Brass Pre-Tin	25.9	10.3	2.3	
ST 740687-3	16	AEXF 1.25	0.64	0.3	Brass Pre-Tin	25.9	10.3	2.3	
ST 740688-3	14	AVSS 2.0	0.64	0.3	Brass Pre-Tin	25.9	10.3	2.3	

WIRE SEAL

Part No.	Wire Range mm ²	Material	Color	Dimension(mm)		Type
				L	€	
MG 680274	AEXF 0.85	Silicone	Red	7.5	Ø4.8	C
MG 680275	AEXF 1.25	Silicone	Green	7.5	Ø4.8	
MG 683935	AVSS 0.3~0.5 AVS 0.3~0.5	Silicone	Orange	7.5	Ø4.8	
MG 681474	AEXF 0.5, AVSS 0.85	Silicone	Blue	7.5	Ø4.8	
MG 683695	Dummy Seal	Silicone	Black	6.2	Ø4.9	D

©



④

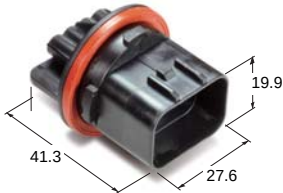
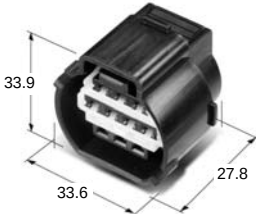


090 II SEALED CONNECTOR

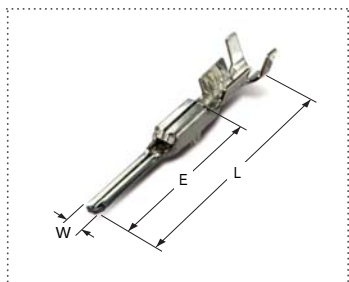
- Improved design from 090 size sealed connector for higher reliability.
The blade width of male terminal for this connector is 0.090 inches.
(Distinctive Features)
- These are connectors for automobile lamp ass'y
- Double locking system eliminates push-out.(Housing Lance, Side Lock).
- Individual waterproof seal.

HEAD LAMP CONNECTOR(090II WP)

HOUSING

Poles	Receptacle housing for female terminal	Plug housing for male terminal
6	MG 643866 	MG 653863 
8	MG 644345 	MG 654349 
10	MG 643546 	MG 653549 

TERMINAL



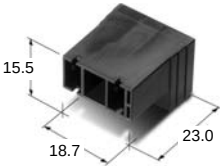
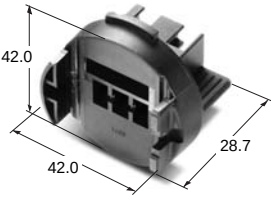
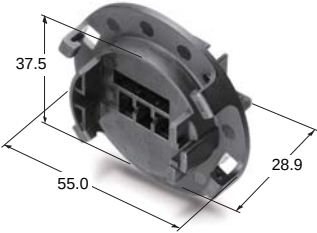
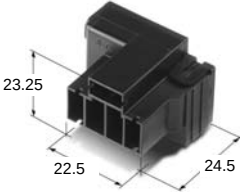
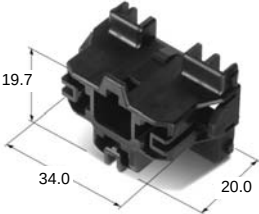
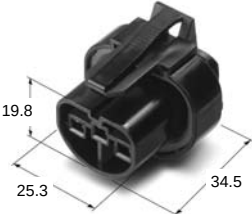
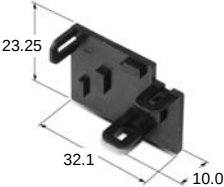
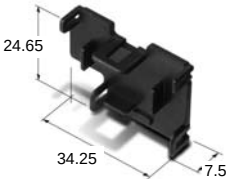
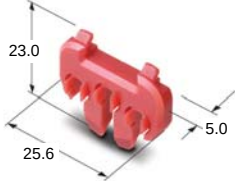
Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST 741270-3	24	CHFUS 0.22 AVSS 0.22	0.8	0.3	Pre-Tin	25.3	13.5	1.5	
ST 741271-3	22-20	AVSS 0.3~0.5	0.8	0.3	Pre-Tin	25.3	13.5	1.5	
ST 741272-3	18-16	AVSS 0.85-1.25	0.8	0.3	Pre-Tin	25.3	13.5	1.5	

HOUSING

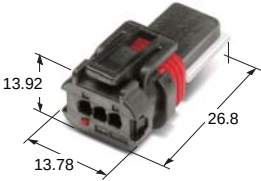
Poles	Receptacle housing for male terminal
12	MG 655235  Suitable Connector: 7283-2432-30(YAZAKI)

HEAD LAMP CONNECTOR

HOUSING

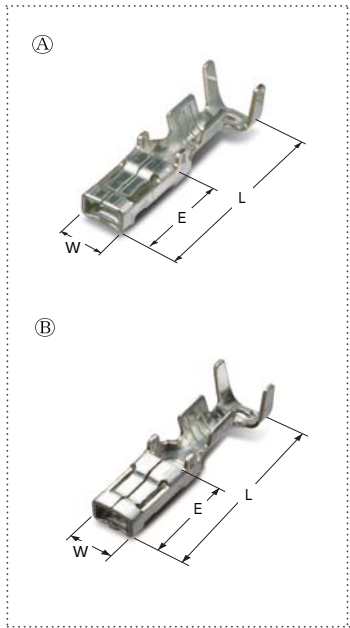
Poles	Plug housing for male terminal		
1	MG 632969(H1)		
			
2	Suitable Terminal: ST 730932-3, ST 730942-3		
	MG 632862(H7)	MG 635209(H7)	MG 635680
3			
	Suitable Terminal: ST 730932-3		
3	MG 632879(H4)	MG 631660(3P)	MG 640468(3P)
			
3	MG 632882 (Rear Holder)	MG 632075 (Rear Holder)	MG 630469 (Rear Holder)
			
	Suitable Terminal: ST 730934-3	Suitable Terminal: ST 730766, ST 730767, ST 730764, ST 730765	Suitable Terminal: ST 730524, ST 730525

HOUSING (HLLD 025 WP)

Poles	Receptacle housing for female terminal
3	MG 654883
	
	Suitable Terminal: ST 731068-3

HEAD LAMP CONNECTOR

TERMINAL



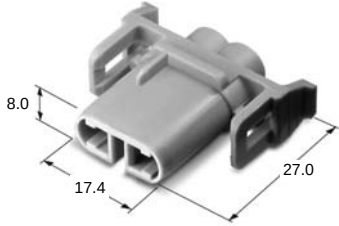
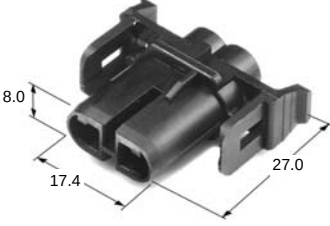
Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST 730524-3	20-18	AVS 0.3~0.85	0.8	0.4	Copper Alloy Pre-Tin	19.0	7.0	4.4	A
ST 730525-3	16-14	AVS(AVSS) 1.25-2.0 CAVS 1.25 AVX 1.25-2.0	0.8	0.4	Copper Alloy Pre-Tin	19.0	7.0	4.4	
ST 730518-3	20-18	AVS 0.3~0.85	0.8	0.4	Pre-Tin	19.0	7.0	4.4	B
ST 730556-3	16-14	AVS(AVSS) 1.25-2.0 CAVS 1.25 AVX 1.25-2.0	0.8	0.4	Pre-Tin	19.0	7.0	4.4	

WIRE SEAL

Part No.	Wire Range		Material	Color	Dimension(mm)		Type
	AWG	mm ²			L	€	
MG 680470	18-16	AV 0.5, AVS 0.85 AVSS 1.25, CAVS 1.25	Silicone	Red	7.4	Ø6.5	
MG 680564	16-14	AVS 1.25~2.0 AVX 1.25~2.0	Silicone	Blue	7.4	Ø6.5	
MG 680522	20	CAVS 0.5 AVSS 0.5, AV 0.3	Silicone	Green	7.4	Ø6.5	
MG 685197	-	AVSS 0.3 AEXF 0.3	Silicone	Black	7.4	Ø6.5	



HOUSING

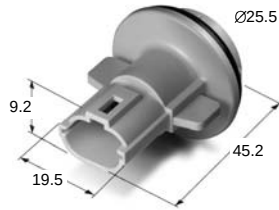
Poles	Plug housing for female terminal	
2	MG 612313-40(H11)	MG 612312(H9)
		 Suitable Terminal: ST 730524-3, ST 730525-3

BULB SOCKET CONNECTOR

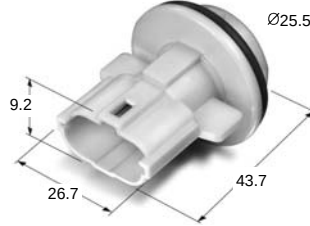
FRONT BULB SOCKET

070(SWP) Type

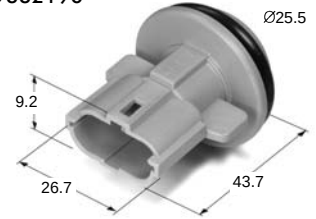
MG 660480 (2P SINGLE)



MG 660482 (3P DOUBLE)

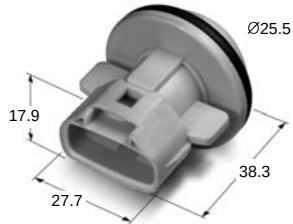


MG 661610 (3P DOUBLE)
MG 662190

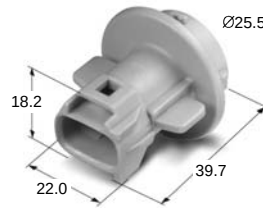


090II WP Type

MG 661634 (3P DOUBLE)



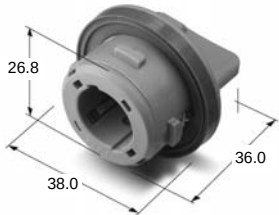
MG 661632 (2P SINGLE)



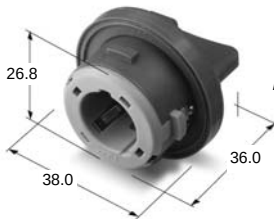
TURN SIGNAL BULB SOCKET

SINGLE(2P)

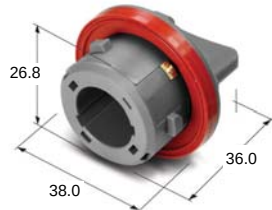
MG 663046-41(180°)



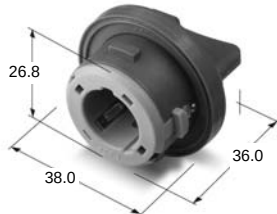
MG 663070-40(150°)



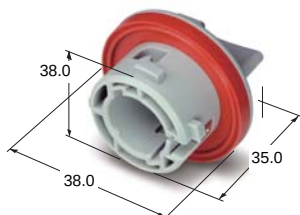
MG 663541-40(150° - 90°)



MG 663070-40(150°)



MG 665658-4



MG 663209-40



MG 663059-41



MG 664618(RH)



MG 664619(LH)



MG 664677(LMS)



MG 635677-41



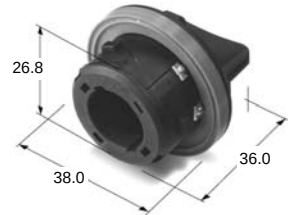
Suitable Terminal: ST 761333-3(L), ST 761334-3(M), ST 761335-3(S)

BULB SOCKET CONNECTOR

TURN SIGNAL BULB SOCKET

DOUBLE(3P)

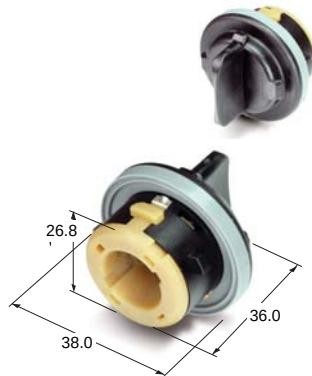
MG 663071-5



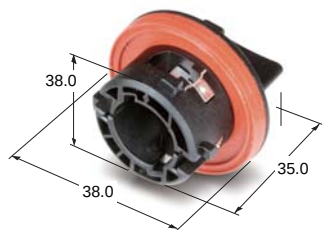
MG 663901-5



MG 665334-5(DOUBLE)



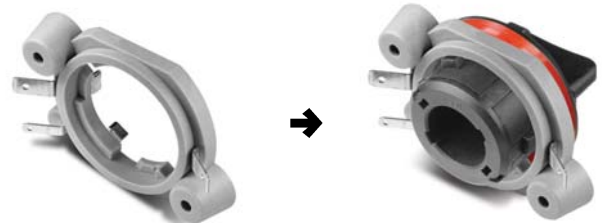
MG 665659-5



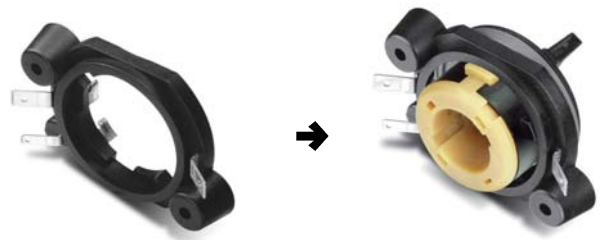
MG 665569-40



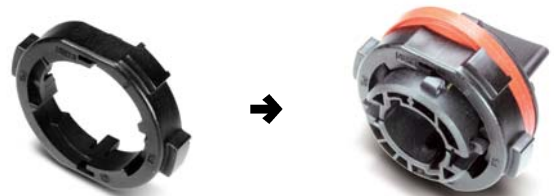
MG 663904-41



MG 663060-5(DOUBLE)



MG 635678



Suitable Terminal: ST761333-3(L), ST761334-3(M), ST761335-3(S)

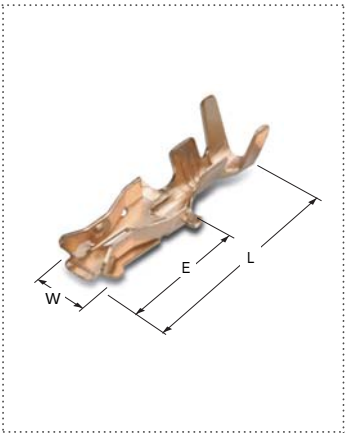
BULB SOCKET CONNECTOR

TURN SIGNAL WP BULB SOCKET

SOCKET	BRACKET
MG 665576  T20(DUAL-LCL : 31mm)	MG 665476  T20((DUAL-LCL : 31mm)
MG 665577  T20(SIGNAL-LCL : 31mm)	MG 665477  T20(SIGNAL-LCL : 31mm)

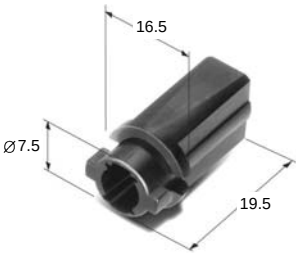
BULB SOCKET

MINI BULB TERMINAL & HOUSING



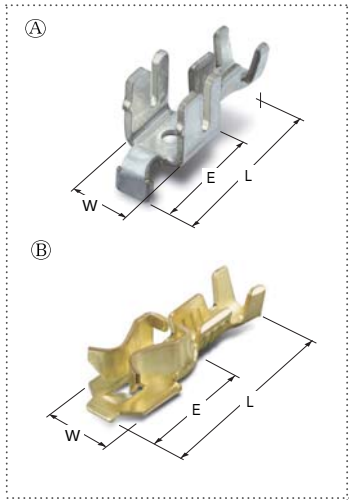
Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST730557-1	22-18	AVSS 0.3-0.85		0.25	Phos. Bronze Unplate	13.5	7.8	4.0	

MG 630578(2P)



BULB SOCKET CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST760877-3	20-18	AVSS 0.5-0.85	-	0.64	Brass Pre-Tin	13.9	7.1	5.0	Ⓐ
ST780903-3	22-20	AVX 0.3	-	0.4	Brass	16.0	8.0	5.2	Ⓑ
ST780996-1	20-18	AVS 0.5-0.85	-	0.4	Brass	16.0	8.0	5.2	

POSITION WP BULB SOCKET(WIRE LESS TYPE)

MG 662305(L)



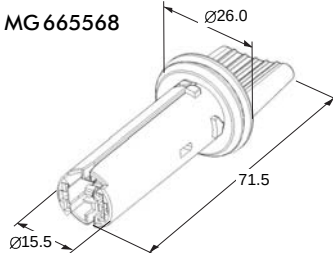
MG 662307(H)



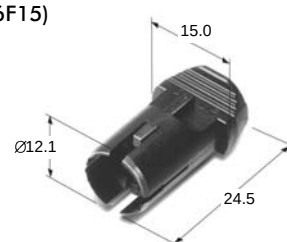
MG 663158



MG 665568



MG 631720 (PA6+6F15)
633580(NORYL)

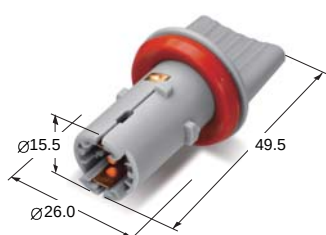


Suitable Terminal: 780759-1

POSITION WP BULB SOCKET

SOCKET

MG 665478



T3.25 (LCL : 25mm)

BRACKET

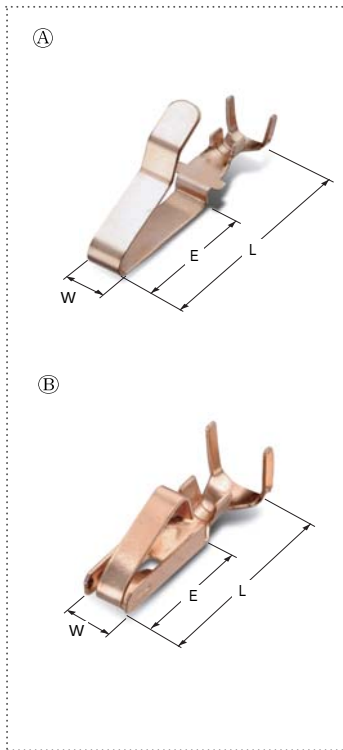
MG 665480



T3.25 (LCL : 25mm)

BULB SOCKET CONNECTOR

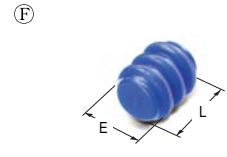
RCL BULB SOCKET TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST760794-1	20-18	AVSS 0.5-0.85	-	0.4	Copper Alloy	26.3	15.3	4.0	(A)
ST760795-1	20-18	AVSS 0.5-0.85	-	0.3	Copper Alloy	16.6	9.0	3.5	(B)

WIRE SEAL

Part No.	Wire Range		Material	Color	Dimension(mm)		Type
	AWG	mm ²			L	€	
MG 682027	20-18	AVS 0.5-0.85	Silicone	Black	8.5	Ø8.3	(C)
MG 682028	20-18	AVS 0.5-0.85	Silicone	Black	8.1	Ø6.1	(D)
MG 685229	Dummy Seal		Silicone	Blue	7.2	Ø6.1	(F)



- Connector combined with a front Lamp
- Wireless type with enhanced assembly
- Miniature size accommodates usage in a narrow space.
- Connector combined with a Rear Combi Lamp
- Socketless type ensures stable connection and convenient assembly.

RCL WP BULB SOCKET

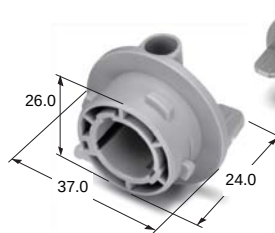
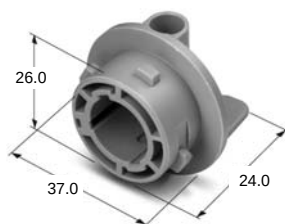
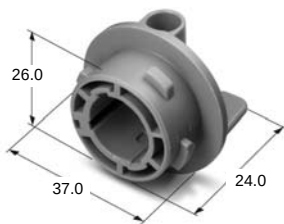
SINGLE

MG 631781(SINGLE-A)

MG 631895(SINGLE-B)

MG 634646(SINGLE-150°), PR21W

MG 665763-41



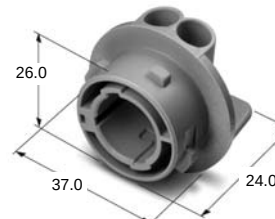
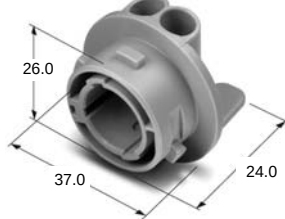
DOUBLE

MG 665014-4

MG 632558(DOUBLE-C)

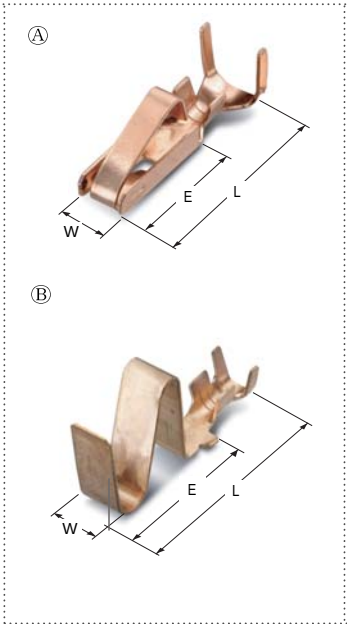
MG 631783(DOUBLE-A)

MG 633848-4(DOUBLE-150°), P21/4W



BULB SOCKET CONNECTOR

RCL BULB SOCKET TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST760795-1	20-18	AVSS 0.5-0.85	-	0.3	Copper Alloy	16.6	9.0	3.5	(A)
ST760521-1	20-18	AVS(AVSS) 0.5-0.85	-	0.3	Copper Alloy	18.3	12.6	4.0	(B)

WIRE SEAL

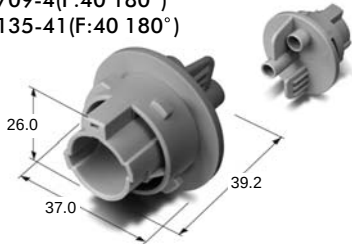
Part No.	Wire Range		Material	Color	Dimension(mm)		Type
	AWG	mm ²			L	€	
MG682028	20-18	AVS 0.5-0.85	Silicone	Black	8.1	Ø6.1	(C)



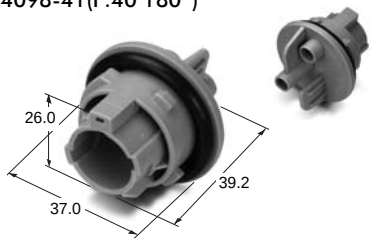
RCL WP BULB SOCKET

SINGLE

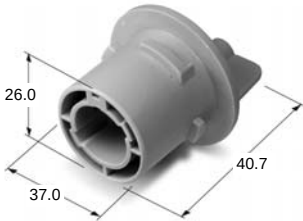
MG 633709-4(F:40 180°)
MG 634135-41(F:40 180°)



MG 664098-41(F:40 180°)



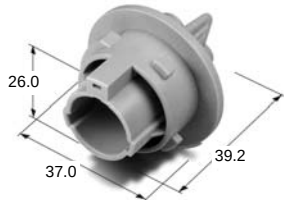
MG 633412-41(F:45 180°)



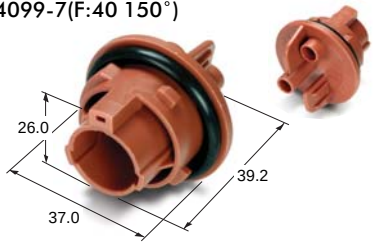
MG 663672-41(F:45 180°)



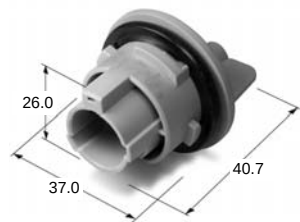
MG 633707-41(F:40 150°)
MG 634134-7(F:40 150°)



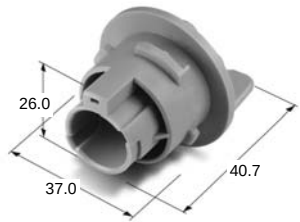
MG 664099-7(F:40 150°)



MG 663673-41(F:45 150°)



MG 633404-7(F:45 150°)

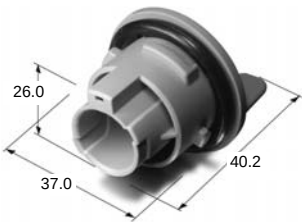


BULB SOCKET CONNECTOR

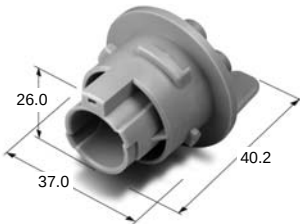
RCL WP BULB SOCKET

DOUBLE

MG 662850(F:45 180°)



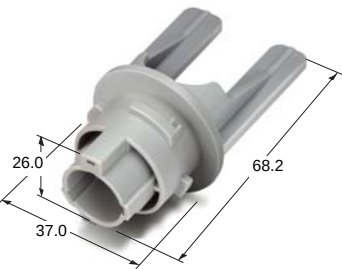
MG 633756(F:45 180°)



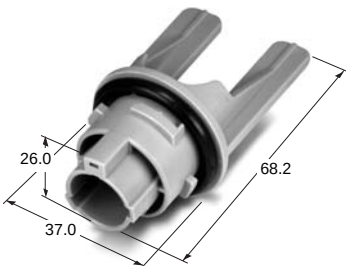
MG 632565-7(F:40)



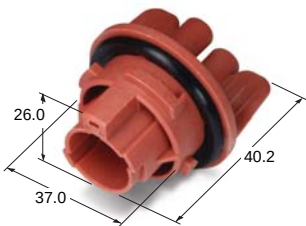
MG 635024(F:45 150°)



MG 665025-41(F:45 150°)



MG 665065-7(F:40)



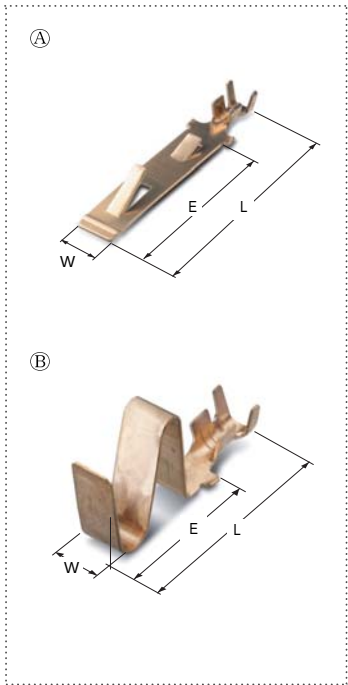
MG 665624(F:40 150°)



BULB SOCKET

BULB SOCKET CONNECTOR

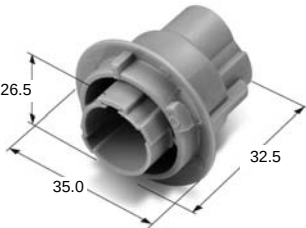
RCL BULB SOCKET TERMINAL



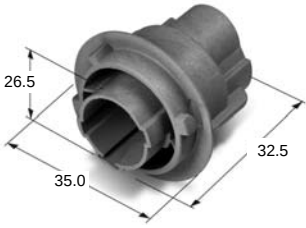
Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST760520-1	20-18	AVS(AVSS) 0.5-0.85	-	0.4	Copper Alloy	29.3	23.3	5.0	Ⓐ
ST760521-1	20-18	AVS(AVSS) 0.5-0.85	-	0.3	Copper Alloy	18.3	12.6	4.0	Ⓑ

RCL WP BULB SOCKET

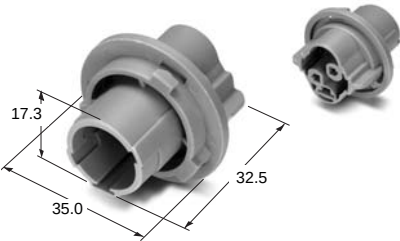
MG 630484(S/1, E/S)
MG 631490



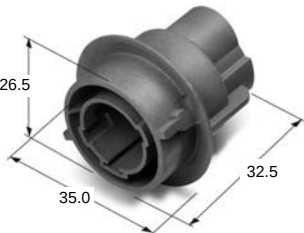
MG 630485(S/2, E/D)
MG 631491



MG 631785-4(N04D)



MG 630487(W/1)
MG 631390

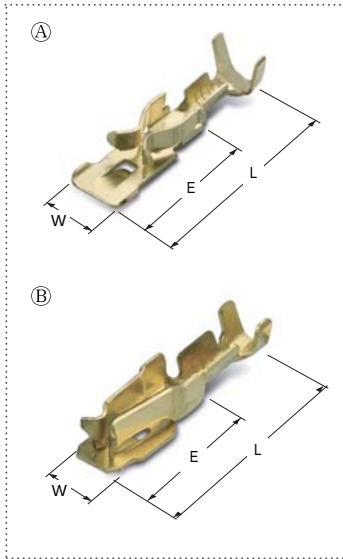


MG 630486(W/2)
MG 631391 MG 632101



BULB SOCKET CONNECTOR

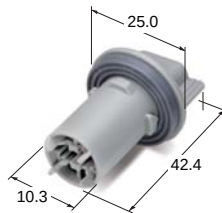
BACK-UP & HMSL TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST780915-1	20-18	AEXF 0.5~0.85	-	0.4	Brass	22.7	13.5	6.6	Ⓐ
ST780759-1	22-20	AEXF 0.5~0.85	-	0.4	Brass	18.3	10.1	5.0	Ⓑ

BACK-UP & HMSL SOCKET

MG 665603-41



Suitable Terminal : Ⓑ

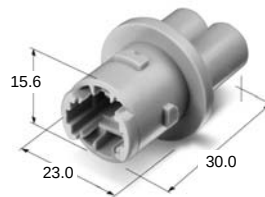
MG 632546-4



Suitable Terminal : Ⓐ

Wire Seal : MG 682027

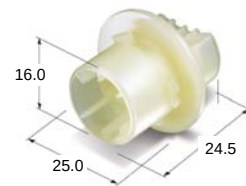
MG 633053-4



Suitable Terminal : Ⓐ

Wire Seal : MG 682027

MG 633043



Suitable Terminal : Ⓑ

MG 633456-41 (PBT)
MG 635684-4 (PA66+MR30%)



Suitable Terminal : Ⓑ

MG 683470 (W/S)



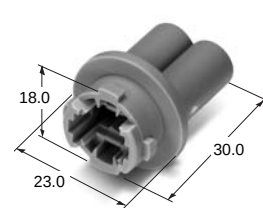
Suitable Terminal : Ⓑ

MG 663671-41
MG 665765-4 (PA66+MR30%)



Suitable Terminal : Ⓑ

MG 635003-41
MG 633711-41

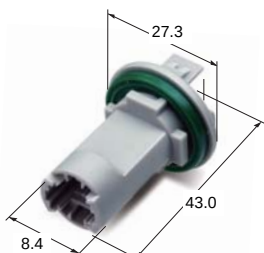


Suitable Terminal : Ⓐ

MG 685027 (W/S)



MG 665410-41



Suitable Terminal : Ⓑ

MG 685146 (W/S)



MG 665057

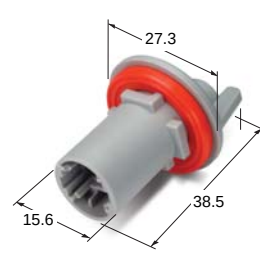


Suitable Terminal : Ⓐ

MG 685146 (W/S)



MG 665059



Suitable Terminal : Ⓑ

MG 685146 (W/S)

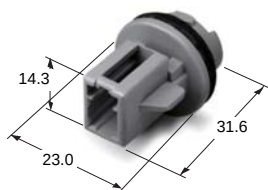


BULB SOCKET CONNECTOR

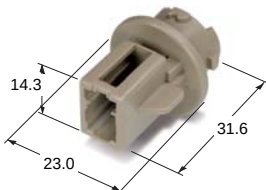
🔌 LICENSE PLATE BULB SOCKET

050 Type

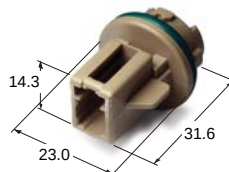
MG 661937-4



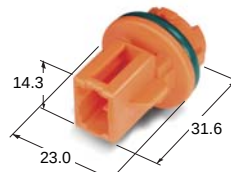
MG 663694-7



MG 663872-7

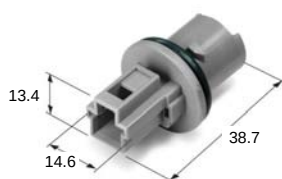


MG 665789-11

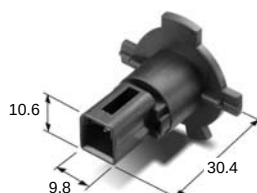


060 Type

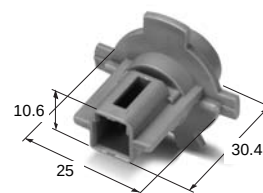
MG 663555-4



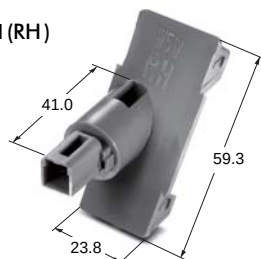
MG 664106-41



MG 665010-41



MG 665053-41 (RH)



MG 665123-41 (LH)



070(SWP) Type

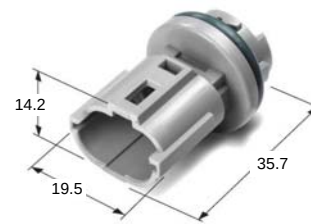
MG 660616-4



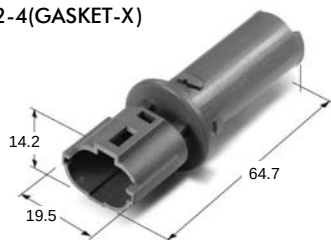
MG 663553-4(GASKET-O)
MG 664166-4(GASKET-X)



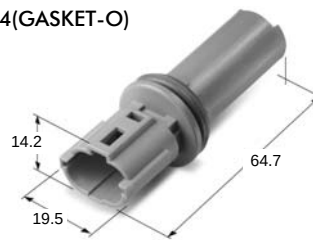
MG 662675-7



MG 663652-4(GASKET-X)

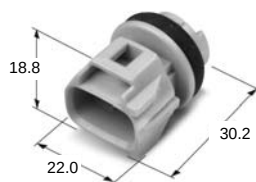


MG 663579-4(GASKET-O)



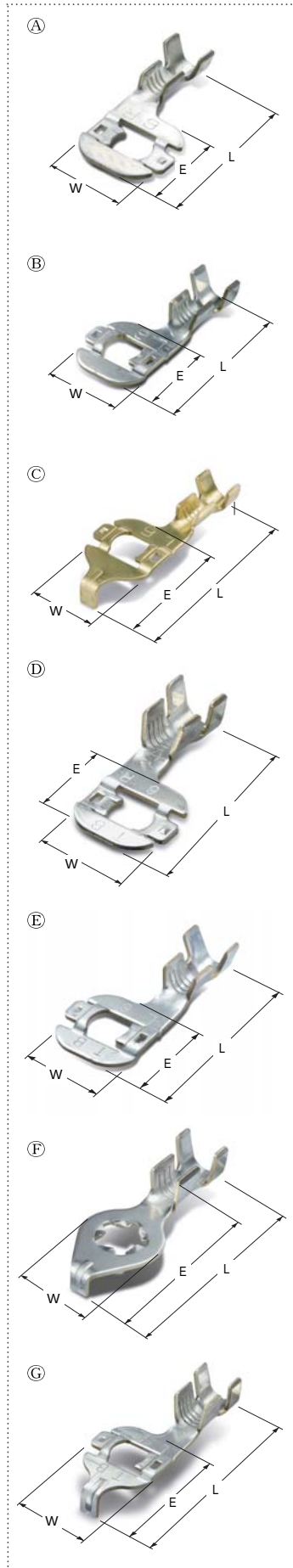
090II WP Type

MG 661750



EARTH RING TERMINAL

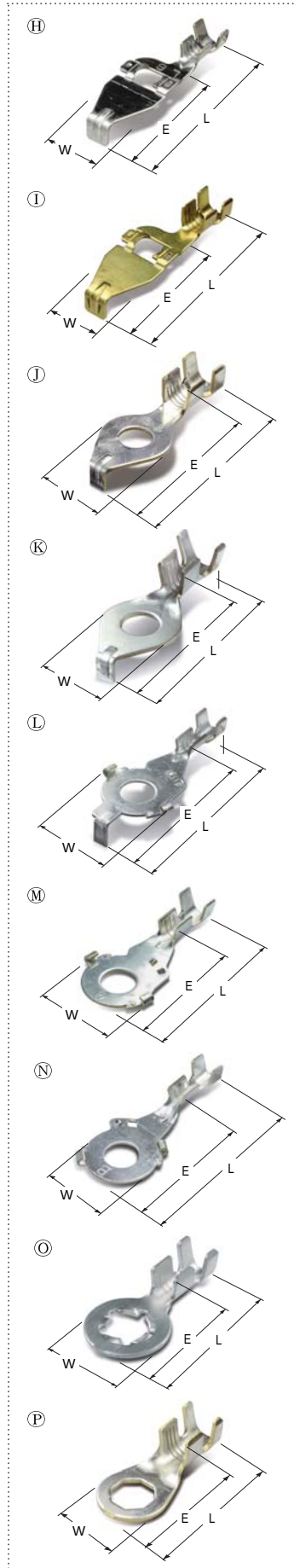
TERMINAL



Part No.	Wire Range		Stud Size (mm)	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST710806-1	20-16	AVS 1.25+2.0 AVS 3.0	Ø6.4	0.8	Brass	28.5	14.0	14.0	Ⓐ
ST710806-2					Brass/Tin				
ST710806-3					Pre-Tin				
ST710506-1	20-16	AVSS 0.5, AVS 0.5 ×2 AVSS 0.85, AVSS 1.25 AVS 0.5 +0.85	Ø6.4	0.8	Brass	28.5	14.0	14.0	
ST710506-3					Pre-Tin				
ST710507-1					16-14				
ST710507-3	Pre-Tin								
ST710558-1	20-14	AVSS 0.85, 1.25, 2.0	Ø8.4	0.8	Brass	30.5	16.0	16.0	
ST710558-3					Pre-Tin				
ST710559-1					12-10				
ST710559-3	Pre-Tin								
ST710591-1	10-8	AVS 5.0, 8.0	Ø6.4	0.8	Brass	28.5	14.0	14.0	
ST710591-3					Pre-Tin				
ST710805-1					12				
ST710805-2	Brass-Tin								
ST710805-3	Pre-Tin								
ST710504-1	20-16	AVSS 0.5, AVSS 0.85 AVSS 1.25, AVS 0.5 ×2 AVS 0.5 +0.85	Ø6.4	0.8	Brass	28.5	14.0	14.0	
ST710504-3					Pre-Tin				
ST710505-1					16-14				AVS1.25 ×2, AVS0.5 +2.0 AVS0.85 +2.0, AVSS2.0 AVS 0.5 +1.25
ST710505-3	Pre-Tin								
ST710590-1	10-8	AVS 5.0, 8.0	Ø6.4	0.8		Brass	28.5	14.0	
ST710590-3					Pre-Tin				
ST710560-1					20-14	AVSS 0.85, 1.25, 2.0			Ø8.4
ST710560-3	Pre-Tin								
ST710561-1	20-16	AVS 3.0, 5.0	Ø8.4	0.8			Brass	30.5	
ST710561-3					Pre-Tin				
ST710783-1					20-16	AVSS 0.5, AVS 0.5 ×2 AVSS 0.85, AVSS 1.25 AVS 0.5 +0.85	Ø6.4		0.8
ST710783-2	Brass/Tin								
ST710783-3	Pre-Tin								
ST710784-1	16-14	AVS1.25 ×2, AVS0.5 +2.0 AVS0.85 +2.0, AVSS 2.0 AVS 0.5 +1.25	Ø6.4	0.8	Brass	33.0	18.5	14.0	Ⓑ
ST710784-2					Brass-Tin				
ST710784-3					Pre-Tin				
ST710950-1	10-8	AEXF(AEX) 5.0, 8.0 AVS 5.0, 8.0	Ø6.4	0.8	Brass	33.0	18.5	14.0	
ST710950-3					Pre-Tin				
ST710953-1					20-16				
ST710953-3	Pre-Tin								
ST710964-1	20-14	AVS1.25 ×2 AVS 0.5 +2.0, 0.2+1.25 AVS 0.85 +2.0 AVSSXF 2.5 +AVS 0.5	Ø6.4	0.8		Brass	30.0	14.0	14.0
ST710964-3					Pre-Tin				
ST710965-1					18-16	AVS 0.5, 0.5 ×2 0.85 AVS 0.5+ 0.85 1.25			
ST710965-3	Pre-Tin								
ST710981-1	10-8	AEXF(AEX) 5.0 , 8.0 AVSS 8.0	Ø6.4	0.8			Brass	30.0	14.0
ST710981-3					Pre-Tin				
ST711027-3					20-12	AVS 3.0, 2.0 1.25 ×2 AVS 0.5 +1.25, 0.5+2.0 AVS 0.85+2.0	Ø6.4		
ST710998-3	-	AVS 5.0, 8.0	Ø6.4	1.0	Pre-Tin	37.2	24.2	14.0	Ⓕ
ST710952-1	20~14	AVSS 2.0, AVS 1.25 ×2 AVS 0.5+1.25, 0.5+2.0 AVS 0.85+2.0	Ø6.4	0.8	Brass	34.7	18.5	14.0	Ⓖ
ST710952-3					Pre-Tin				
ST710966-1					20~14				
ST710966-3	Pre-Tin								
ST710967-1	10~8	AEXF(AEX) 5.0, 8.0 AVS 5.0, AVS 8.0	Ø6.4	0.8		Brass	34.7	18.5	
ST710967-3					Pre-Tin				

EARTH RING TERMINAL

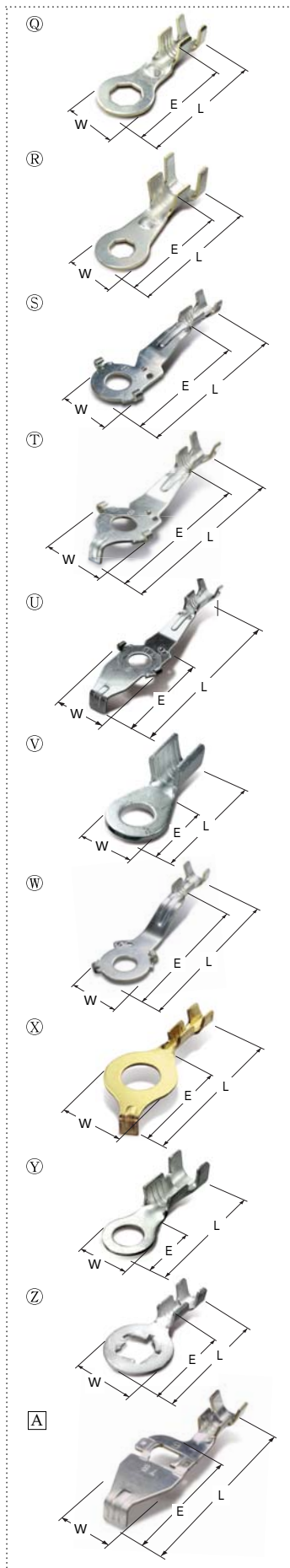
➡ TERMINAL



Part No.	Wire Range		Stud Size (mm)	Material		Dimension(mm)			Type
	AWG	mm²		Thick.	Finish	L	€	W	
ST711198-1	20~16	AVS 1.25, 2, 0.5+1.25	Ø6.4	0.8	Brass	46.7	27.0	14.0	Ⓜ
ST711198-3		AVS 0.5+2.0, 0.85+2.0			Pre-Tin				
ST711199-1	16~14	AVS 1.25×2, 0.5+1.25	Ø6.4	0.8	Brass	46.7	27.0	14.0	
ST711199-3		AVS 0.5+2.0, 0.85+2.0 AVSS 2.0			Pre-Tin				
ST711200-1	10~8	AEXF(AEX) 5.0, 8.0	Ø6.4	0.8	Brass	46.7	27.0	14.0	Ⓜ
ST711200-3		AVS 5.0, 8.0 FLRY-B 4.0,6.0			Pre-Tin				
ST711022-3	10~8	AEXF(AEX) 5.0, 8.0 AVS 5.0, AVS 8.0	Ø6.4	0.8	Brass Pre-Tin	34.7	24.0	14.0	Ⓜ
ST711059-3	20~18	AEXF 0.5~0.85 AVSS 0.5~0.85	Ø6.4	0.8	Brass Pre-Tin	34.7	24.0	14.0	
ST710853-1	20~16	AVSS 0.5, AVS 0.5+0.5	Ø6.4	0.8	Brass	32.3	21.1	14.0	Ⓜ
ST710853-2		AVSS 0.85, AVSS 1.25 AVS 0.5+0.85			Brass/Tin				
ST711049-1	22~20	AVSS 0.5	Ø6.4	0.8	Brass	32.3	21.1	14.0	
ST711049-2		AVSS 0.3+0.3			Brass/Tin				
ST710782-3	14~10	AVS 2.0~5.0	Ø6.4	0.8	Brass Brass/Tin	32.3	21.1	14.0	
ST710859-3	22~20	AVSS 0.3~0.5	Ø6.4	0.6	Pre-Tin	37.0	26.0	17.0	Ⓜ
ST710847-3	18~16	AVSS 0.85~1.25	Ø6.4	0.6	Pre-Tin	37.0	26.0	17.0	
ST710870-3	14~12	AVS 2.0~3.0	Ø6.4	0.6	Pre-Tin	37.0	26.0	17.0	
ST710808-3	22~20	AVSS 0.3~0.5	Ø6.4	0.6	Pre-Tin	32.4	26.0	17.0	Ⓜ
ST710809-3	18~16	AVSS 0.85~1.25	Ø6.4	0.6	Pre-Tin	32.4	26.0	17.0	
ST710846-3	14~12	AVS 2.0~3.0	Ø6.4	0.6	Pre-Tin	32.4	26.0	17.0	
ST710848-3	22~20	AVSS 0.3~0.5	Ø6.4	0.6	Pre-Tin	33.4	22.4	14.8	Ⓜ
ST710849-3	18~16	AVSS 0.85-1.25	Ø6.4	0.6	Pre-Tin	33.4	22.4	14.8	
ST710850-3	14~12	AVS 2.0-3.0	Ø6.4	0.6	Pre-Tin	33.4	22.4	14.8	
ST710725-1	16~14	AVSS 1.25-2.0	Ø8.4	1.0	Brass	33.0	20.0	17.4	Ⓜ
ST710725-2					Brass/Tin				
ST710726-1	12~10	AVS 3.0, 5.0	Ø8.4	1.0	Brass	33.0	20.0	17.4	
ST710726-2					Brass/Tin				
ST710727-1	8	AVS 8.0	Ø8.4	1.0	Brass	33.0	20.0	17.4	
ST710727-2					Brass/Tin				
ST710728-1	16~14	AVSS 1.25-2.0	Ø6.4	1.0	Brass	33.0	20.0	15.4	
ST710728-2					Brass/Tin				
ST710729-1	12~10	AVS 3.0-5.0	Ø6.4	1.0	Brass	33.0	20.0	15.4	
ST710729-2					Brass/Tin				
ST710730-1	8	AVS 8.0	Ø6.4	1.0	Brass	33.0	20.0	15.4	
ST710730-2					Brass/Tin				
ST711071-2	12~8	FLRY 4.0~6.0 FLRY 1.5×3 FLRY 1.5×4	Ø6.33	0.8	Pre-Tin	23.0	14.5	15.4	Ⓜ
ST711072-2	14~12	FLRY 2.5 FLRY 1.5X2	Ø6.33	0.8	Pre-Tin	23.0	14.5	15.4	
ST711073-2	20~16	FLRY 0.5~1.5	Ø6.33	0.8	Pre-Tin	23.0	14.5	15.4	

EARTH RING TERMINAL

TERMINAL



Part No.	Wire Range		Stud Size (mm)	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST711074-2	12~8	FLRY 4.0~6.0 FLRY 1.5×3 FLRY 1.5×4	Ø6.33	0.8	Pre-Tin	29.0	20.0	12.0	
ST711075-2	14~12	FLRY 2.5 FLRY 1.5X2	Ø6.33	0.8	Pre-Tin	29.0	20.0	12.0	Q
ST711076-2	20~16	FLRY 0.5~1.5	Ø6.33	0.8	Pre-Tin	29.0	20.0	12.0	
ST711077-2	~	FLRY 10 FLRY 4.0+6.0	Ø6.33	1.0	Pre-Tin	37.0	24.0	14.0	R
ST710984-3	18~16	AVSS 0.5×2 AEXF 0.5×2 AVSS 0.85~1.25 AEXF 0.85~1.25	Ø6.4	0.8	Pre-Tin	44.0	33.4	18.0	
ST710985-3	14~12	AVSS 2.0 AEXF 2.0~3.0	Ø6.4	0.8	Pre-Tin	44.0	33.4	18.0	S
ST710986-3	14~10	AVSS 2.0×2 AEXF(AEX) 2.0×2 AEXF(AEX) 5.0	Ø6.4	0.8	Pre-Tin	44.0	33.4	18.0	
ST710987-3	18~16	AVSS 0.5×2 AEXF 0.5×2 AVSS 0.85~1.25 AEXF 0.85~1.25	Ø6.4	0.8	Pre-Tin	49.0	38.2	18.0	
ST710988-3	14~12	AVSS 2.0 AEXF 2.0~3.0	Ø6.4	0.8	Pre-Tin	49.0	38.2	18.0	T
ST710989-3	14~10	AVSS 2.0×2 AEXF(AEX) 2.0×2 AEXF(AEX) 5.0	Ø6.4	0.8	Pre-Tin	49.0	38.2	18.0	
ST711220-3	18~16	AVSS 0.5×2 AEXF 0.5×2 AVSS 0.85~1.25 AEXF 0.85~1.25	Ø6.4	0.8	Pre-Tin	62.5	28.8	6.0	
ST711221-3	14~12	AVSS 2.0 AEXF 2.0~3.0	Ø6.4	0.8	Pre-Tin	62.5	28.8	6.0	U
ST711222-3	14~10	AVSS 2.0×2 AEXF(AEX) 2.0×2 AEXF(AEX) 5.0	Ø6.4	0.8	Pre-Tin	62.5	28.8	6.0	
ST711302-3	14~10	AVSS 2.0×2 AEXF(AEX) 2.0×2 AEXF(AEX) 5.0	Ø6.4	0.8	Pre-Tin	49.0	38.2	18.0	V
ST710990-3	18~16	AVSS 0.5×2 AEXF 0.5×2 AVSS 0.85~1.25 AEXF 0.85~1.25	Ø6.4	0.8	Pre-Tin	44.6	33.4	15.0	
ST710991-3	14~12	AVSS 2.0 AEXF 2.0~3.0	Ø6.4	0.8	Pre-Tin	44.6	33.4	15.0	W
ST710992-3	14~10	AVSS 2.0×2 AEXF(AEX) 2.0×2 AEXF(AEX) 5.0	Ø6.4	0.8	Pre-Tin	44.6	33.4	15.0	
ST710957-1	22~20	AVS 0.3~0.5	Ø6.4	0.6	Brass	27.7	15.7	3.0	X
ST710949-1	18~14	AVS 0.85~2	Ø6.4	0.6	Brass	27.7	15.7	3.0	
ST711146-2	14~12	2.0~3.0	Ø5.4	0.8	Brass/ Tin	23.6	12.6	9.2	Y
ST711306-2	14~12	2.0~3.0	Ø6.4	0.8	Brass/ Tin	23.6	12.6	9.2	Z
ST711308-3	20~16	AVS 0.5, 0.5×2, 0.85 AVSSXF 0.25 AVS1.25, 0.5+0.85	Ø6.4	0.8	Pre-Tin	43.0	27.0	14.0	
ST711309-3	16~14	AVS 1.25×2, 0.5+1.25, 0.85 AEXF(AEX) 3.0, AVSS 2.0 AVS 0.5+2.0, 0.85+2.0	Ø6.4	0.8	Pre-Tin	43.0	27.0	14.0	A
ST711310-3	10~8	AEXF(AEX) 5.0, 8.0 AVS 5.0, 8.0 FLRY-B 4.0, 6.0	Ø6.4	0.8	Pre-Tin	43.0	27.0	14.0	

MINI & FLAT FUSE TERMINAL

► Mostly suitable for use with automotive relays and fuses, those with Lance Terminal Connectors are provided for multiple-pole Housing.

IIO F/B(SINGLE) TERMINAL

Part No.	Wire Range		Material		Dimension(mm)				Type
	AWG	mm ²	Thick.	Finish	L	€	W	H	
ST780801-3	22-12	AVSS 0.3-0.5	0.4	Pre-Tin	25.2	14.2	4.4	-	Ⓐ
ST780802-3		AVSS 0.85-1.25							
ST780803-3		AVS 2.0-3.0, AVSS2.0							
ST780665-3	22-16	AVSS 0.3-0.5	0.4	Pre-Tin	19.8	8.2	4.4	-	Ⓑ
ST780666-3		AVSS 0.85-1.25							
ST780781-3	14-12	AVS 2.0-3.0 AVSS 2.0	0.4	Pre-Tin	19.8	8.2	4.4	-	
ST780854-3	12-10	AVS 3.0-5.0	0.4	Pre-Tin	19.8	8.2	4.4	-	

IIO F/B(MULTI) TERMINAL

ST780740-3	22-12	AVSS 0.3-0.5	0.4	Pre-Tin	25.2	15.4	4.4	4.2	Ⓒ
ST780741-3		AVSS 0.85-1.25							
ST780742-3		AVS 2.0-3.0, AVSS2.0							
ST780667-3	12-10	AVS 3.0-5.0	0.4	Pre-Tin	21.0	15.4	4.4	5.4	Ⓓ

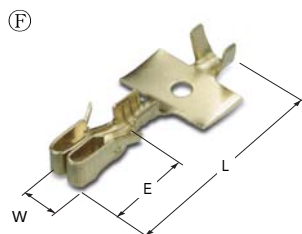
FFT I-WAY(SINGLE) TERMINAL

ST780274-1	20-18	AVSS 0.5-0.85	0.4	Brass	26.5	9.0	5.4	-	Ⓔ
ST780274-3				Pre-Tin					
ST780240-1			0.4	Brass	26.9	9.6	5.4	-	
ST780240-3				Pre-Tin					
ST780275-1	16-14	AVSS 1.25-2.0	0.4	Brass	26.5	9.0	5.4	-	
ST780275-3				Pre-Tin					
ST780212-1			0.4	Brass	26.9	9.6	5.4	-	
ST780212-3				Pre-Tin					
ST780213-1	12-10	AVS 3.0	0.4	Brass	26.9	9.6	5.4	-	
ST780213-3				Pre-Tin					
ST780276-1			0.4	Brass	26.9	9.6	5.4	-	
ST780276-3				Pre-Tin					

MINI & FLAT FUSE TERMINAL

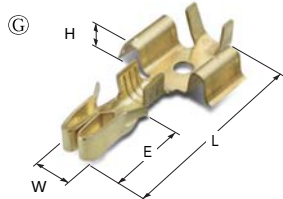
► Mostly suitable for use with automotive relays and fuses, those with Lance Terminal Connectors are provided for multiple-pole Housing.

FFT MULTI TERMINAL



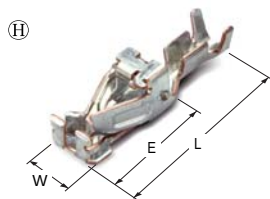
Part No.	Wire Range		Material		Dimension(mm)				Type
	AWG	mm²	Thick.	Finish	L	E	W	H	
ST780214-1	20-18	AVSS 0.5-0.85	0.4	Brass	27.8	9.6	5.1	-	Ⓕ
ST780214-3				Pre-Tin					
ST780215-1	16-14	AVSS 1.25-2.0	0.4	Brass	27.8	9.6	5.1	-	
ST780215-3				Pre-Tin					

FFT BENDING MULTI TERMINAL



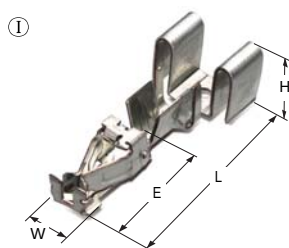
ST780277-1	12-10	AVS 3.0	0.4	Brass	27.6	9.4	5.1	4.2	G
ST780277-3				Pre-Tin					
ST780281-1	12-10	AVS 3.0-5.0	0.4	Brass	27.6	9.4	5.1	3.1	
ST780281-3				Pre-Tin					

LOW HEIGHT MINI FUSE(SINGLE) TERMINAL



ST781033-3	22-20	AVSS 0.3~0.5	0.4	Pre-Tin	17.8	9.5	4.5	-	H
ST781034-3	18-16	AVS 0.85~1.25 AVSS 0.85~1.25	0.4	Pre-Tin	17.8	9.5	4.5	-	
ST781035-3	14-12	AVS 2.0~3.0 AVSS AVSSXF 2.0	0.4	Pre-Tin	17.8	9.5	4.5	-	

LOW HEIGHT MINI FUSE(MULTI) TERMINAL



ST781096-3	22-20	AVSS 0.3~0.5	0.4	Pre-Tin	17.8	9.5	4.4	7.4	I
ST781097-3	18-16	AVSS 0.85~1.25	0.4	Pre-Tin	17.8	9.5	4.4	7.4	
ST781098-3	14-12	AVS 2.0~3.0 AVSS AVSSXF 2.0	0.4	Pre-Tin	17.8	9.5	4.4	7.4	

FLAT FUSE TERMINAL

- Flat Fuse Connectors are mostly used with automotive relays and fuses for multiple-pole Housing.
- Housing Locking Type Terminal
- These connectors are designed for easy insertion, positive mating and proper connection with Fuse Tab.

FTH I-WAY(SINGLE) TERMINAL

Part No.	Wire Range		Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²			L	E	W	
ST780429-3	20-16	AVSS 0.5-1.25	0.4	Brass Pre-Tin	20.0	9.5	5.0	①
ST780430-3	14-12	AVS 2.0-3.0	0.4	Brass Pre-Tin	20.0	9.5	5.0	
ST780433-3	12-10	AVS 3.0-5.0	0.4	Brass Pre-Tin	20.0	9.5	5.0	
ST780356-1 ○ ST780356-3	20-18	AVSS 0.5-0.85	0.4	Brass Pre-Tin	26.5	15.0	5.4	Ⓚ
ST780357-1 ○ ST780357-3	14-12	AVS 2.0-3.0	0.4	Brass Pre-Tin	26.5	15.0	5.4	

FTH MULTI TERMINAL

(PITCH: 12mm)

ST780377-3	20-14	AVSS 0.85-2.0	0.4	Brass Pre-Tin	28.5	9.5	5.0	①
ST780378-3	12-10	AVS 3.0-5.0	0.4	Brass Pre-Tin	28.5	9.5	5.0	
ST780456-3	10	AVS 5.0	0.4	Brass Pre-Tin	28.5	9.5	5.0	

(PITCH: 11mm)

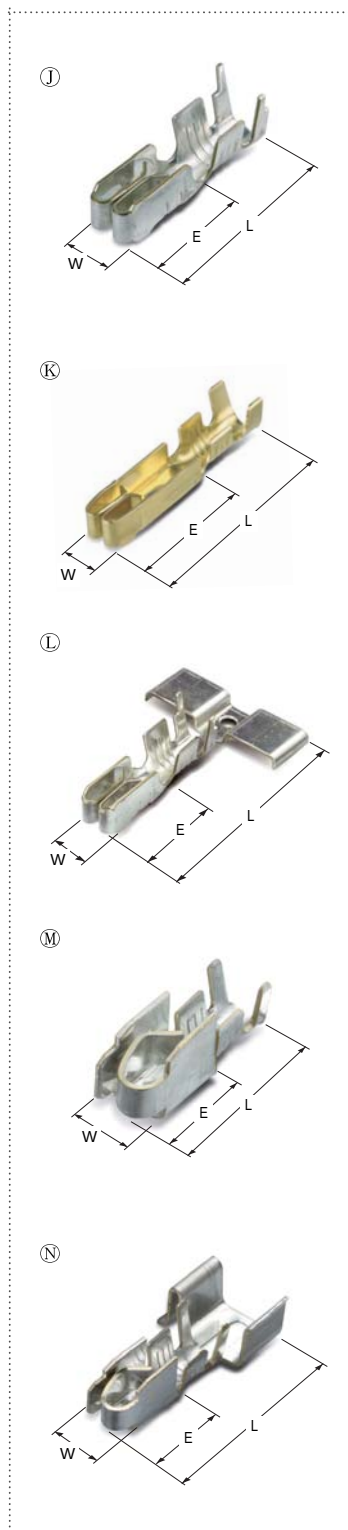
ST780604-3	22-20	AVSS 0.3-0.5	0.4	Brass Pre-Tin	28.5	9.5	5.0	①
ST780454-3	20-14	AVSS 0.85-2.0	0.4	Brass Pre-Tin	28.5	9.5	5.0	
ST780455-3	12	AVS 3.0	0.4	Brass Pre-Tin	28.5	9.5	5.0	
ST780555-3	10	AVS 5.0	0.4	Brass Pre-Tin	28.5	9.5	5.0	

EFH I-WAY(SINGLE) TERMINAL

ST780418-3	22-18	AVSS 0.3-0.85	0.5	Brass Pre-Tin	17.4	9.5	5.0	Ⓜ
ST780419-3	16-14	AVSS 1.25-2.0		Brass Pre-Tin	17.4	9.5	5.0	
ST780420-3	12-10	AVS 3.0-5.0	0.5	Brass Pre-Tin	17.4	9.5	5.0	

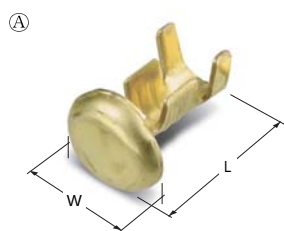
EFH MULTI TERMINAL

ST780415-3	22-18	AVSS 0.3-0.85	0.5	Brass Pre-Tin	25.2	9.5	5.0	Ⓝ
ST780416-3	16-14	AVSS 1.25-2.0		Brass Pre-Tin	25.2	9.5	5.0	
ST780417-3	12-10	AVS 3.0-5.0	0.5	Brass Pre-Tin	25.2	9.5	5.0	

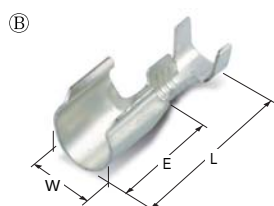


FUSE HOLDER & LAMP TERMINAL

▶ BUTTON CONTACT

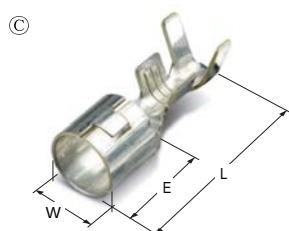


Part No.	Description	Wire Range AWG(mm²)	Material		Dimension(mm)			Type
			Thick.	Finish	L	Є	W	
◇ ST760059-1	Ø5.0	22-18	0.4	Brass	7.1		4.6	Ⓐ
◇ ST760059-3		AVSS 0.3-0.8		Pre-Tin				
ST760125-1	Ø6.0	20-16	0.4	Brass	8.1		6.2	
ST760125-3		AVSS 0.5-1.25		Pre-Tin				

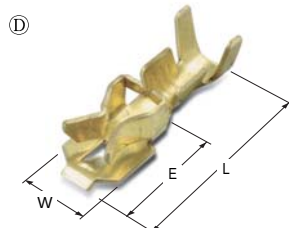


▶ FUSE HOLDER TERMINAL

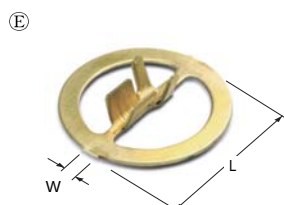
ST780242-1	Ø6.0	18-16	0.3	Brass	18.0	10.7	5.4	Ⓑ
ST780242-2		AVSS 0.85-1.25		Brass/Tin				
ST780328-1	Ø6.0	14-12	0.3	Brass	18.0	10.7	6.5	
ST780328-2		AVS 2.0-3.0		Brass/Tin				
ST780858-3	Ø6.5	16-14 AVSS1.25-2.0	0.4	Pre-Tin	17.7	8.7	7.0	Ⓒ



▶ LAMP TERMINAL (WITHOUT LANCE)



Part No.	Wire Range		Material		Dimension(mm)			Type
	AWG	mm ²	Thick.	Finish	L	€	W	
ST780325-1	20-18	AVSS 0.5-0.85	0.4	Brass	16.0	8.0	5.2	D
ST780325-3				Pre-Tin				
ST780324-1	16	AVSS 0.8-1.25	0.4	Brass	16.0	8.0	5.2	
ST780324-3				Pre-Tin				



▶ LAMP TERMINAL (WITH LANCE)

ST780265-1	20-18	AVSS 0.5-0.85	0.4	Brass	16.0	8.0	5.2	Ⓓ
ST780265-3				Pre-Tin				
ST780312-1	16	AVSS 0.85-1.25	0.4	Brass	16.0	8.0	5.2	
ST780312-3				Pre-Tin				



▶ EARTH RING TERMINAL

ST710519-1	20	AVSS 0.5	0.4	Brass	15.0		2.2	E
ST710881-1	18	AVSS 0.85	0.4	Brass	15.0		1.8	F

CONNECTOR COVER

COVER

Connector Cover	Suitable Connector	Ø	Connector Cover	Suitable Connector	Ø
MG 632484			MG 632412		
	MG 640945	7 Ø		MG 651092	5 Ø
MG 632385			MG 632424		
	MG 641299 MG 631289	9 Ø		MG 641744	9 Ø
MG 632386			MG 632437		
	MG 640186 MG 640187 MG 610088	5 Ø		MG 640849	5 Ø
MG 632387			MG 632477		
	MG 611764 MG 641767	9 Ø		MG 640944	7 Ø
MG 632388			MG 632478		
	MG 610350 MG 640352	11 Ø		MG 650943	7 Ø
MG 632389			MG 632524		
	MG 610346 MG 640348	11 Ø		MG 610499 MG 640501	7 Ø
MG 632404			MG 641969-4		
	MG 641152	7 Ø		MG 651104	CAP
MG 632405			MG 633121		
	MG 642273 MG 643477-4	7 Ø		MG 640605	5 Ø

CONNECTOR COVER

COVER

Connector Cover	Suitable Connector	Ø	Connector Cover	Suitable Connector	Ø
MG 633116			MG 633156		
	(7283-5073-70)	7 Ø		MG 641234 MG 641295	5 Ø
MG 633117			MG 632545		
	(7283-5073-70)	7 Ø		MG 651747	9 Ø
MG 632904			MG 633124		
	(7283-6507-70)	5 Ø		MG 652584	7 Ø
MG 633123			MG 632628		
	MG 610658	7 Ø		MG 642357	7 Ø
MG 632901			MG 633122		
	MG 641627	7 Ø		(6188-0443)	5 Ø
MG 632903			MG 633119		
	(7283-6507-70)	5 Ø		MG 642605	5 Ø
MG 633155			MG 632946		
	MG 610705	5 Ø		MG 652934	11 Ø
MG 633125			MG 632902		
	MG 652520 MG 653701	5 Ø		(C91401-3B582-01)	7 Ø

COVER

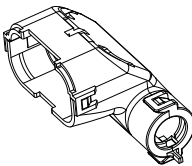
CONNECTOR COVER

COVER

Connector Cover	Suitable Connector	Ø	Connector Cover	Suitable Connector	Ø
MG 632629		MG 642351 9 Ø	MG 632935		MG 642928 12 Ø
MG 632572		MG 641107 9 Ø	MG 633118		MG 612017 11 Ø
MG 632936		MG 642925 12 Ø	MG 633106		MG 640707 5 Ø
MG 633165		(6189-0099) 7 Ø	MG 633164		MG 641299 9 Ø MG 641288
MG 633120		(6189-0027) 5 Ø	MG 632971		MG 642273 5 Ø
MG 633126		MG 640711 11 Ø	MG 632495		MG 651747 11 Ø
MG 632876		MG 641299 11 Ø MG 641288	MG 633989		MG 652582 9 Ø
MG 633154		MG 642840 11 Ø	MG 634043		MG 652584 9 Ø

CONNECTOR COVER

COVER

Connector Cover	Suitable Connector	Ø	Connector Cover	Suitable Connector	Ø
MG 633166			MG 633812		
	MG 640461	5 Ø		MG 643793	11 Ø
MG 633168			MG 633497		
	MG 620270	-		MG 641299 MG 641288	9 Ø
MG 633169			MG 633511		
	MG 641928	-		MG 643507	-
MG 633178			MG 633568		
	MG 643206	-		MG 653494	7 Ø
MG 633205			MG 633207		
	MG 640188	7 Ø		MG 652290	11 Ø
MG 633337			MG 634050		
	MG 643174	-		MG 644051	-
MG 633338			MG 633703		
	MG 643174	-		MG 641299 MG 641288	9 Ø
MG 633368			MG 633208		
	MG 642925	-		MG 642292	11 Ø

COVER

CONNECTOR COVER

COVER

Connector Cover	Suitable Connector	Ø	Connector Cover	Suitable Connector	Ø		
MG 635666		MG 645546 MG 645784	9 Ø	MG 633761		MG 643546	11 Ø
MG 633351		MG 651098	7 Ø	MG 634392		MG 654391	-
MG 633803		MG 643739	11 Ø	MG 634866		MG 654391	-
MG 634816		MG 644771	-	MG 634867		MG 654391	-
MG 635298		MG 610557 MG 613130 MG 613132 MG 613133 MG 613692	-	MG 633186		MG 643396	-
MG 635412-4		MG 665410	-	MG 633421		MG 643396	-
MG 635467		MG 644554	5 Ø	MG 633422-2		MG 643392-2	-
MG 635490		-	-	MG 635436		MG 645433	-

CONNECTOR COVER

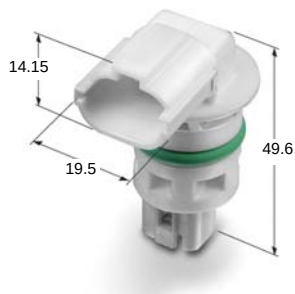
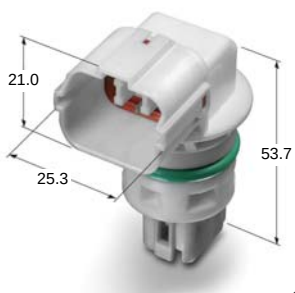
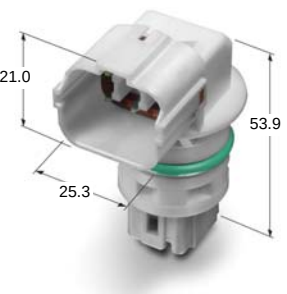
COVER

Connector Cover	Suitable Connector	Ø	Connector Cover	Suitable Connector	Ø
MG 635613 	MG 645740	-	MG 635679(RH) 	MG 645805	-
MG 635615 	MG 645741	-	MG 635624 	MG 655707	-
MG 635632 	MG 645751	-	MG 635642 	MG 652863 MG 652864 MG 653650 MG 653651 MG 653849	9 Ø
MG 635654 	MG 643796	7 Ø	MG 632867 	MG652863 MG652864 MG653077 MG653078	9 Ø
MG 635590 	MG 645655	-	MG 635658 	MG655737 MG655749	9 Ø
MG 635652(LH) MG 635653(RH) 	MG 655730	-	MG 635721 	MG655802	-
MG 635690 	MG 645546 MG 645784	7 Ø			
MG 635675(LH) 	MG 645805	-			

COVER

INSERT MODULE

FUEL PUMP CONNECTOR

Poles	070		090	
	FKM	H-NBR	FKM	H-NBR
2	MG 642855 	MG 642856  (SWP 2F : MG610320) (090 2F : MG610070)	MG 643484 	MG 643485  (090II WP 2F : MG641637-5) (090 2F : MG610070)
			FKM	H-NBR
4			MG 643486 	MG 643487  (090II WP 6F : MG641107) (090 2F : MG610070 / 3F:MG610205)
				● ○ ● ○ ○ ● ●
5	FKM	H-NBR	NBR	
	MG 642849 	MG 642972 	MG 641232 	● ● ● ● ○ ● ● ●
6	FKM	H-NBR		
	MG 642859 	MG 642860 		● ● ● ● ● ● ● ●

INSERT MODULE

▶ PWM(PULSE WIDTH MODULE)



PULSE WIDTH MODULE

Cooling Fan Motor Control
Mounting Locking/Insert Molding Type
Female connector is consists of three
connectors for high current with
waterproof function.

(3118WP 3PIN+312WP 2PIN+312WP 1PIN)

PWM(PULSE WIDTH MODULE)

MG 643488-5

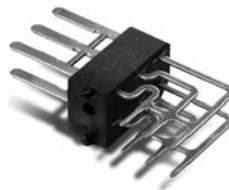


MG 663411-5



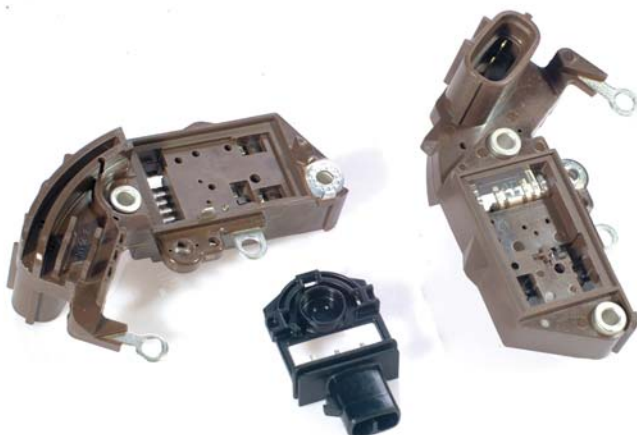
▶ OTHERS

MG 653397-5



INSERT MODULE

➤ REGULATOR FOR ALTERNATOR/STICK IGNITION COIL



REGULATOR FOR ALTERNATOR

Function: Generating steady voltage, ensuring safety

Female Connector: Same as the 090II WP 2PIN female connector

STICK IGNITION COIL

Type: Connected directly to the ignition plug.

Female Connector: Same as the 090II WP 2PIN female connector

REGULATOR FOR ALTERNATOR/STICK IGNITION COIL

MG 642872-7



MG 643333-7



MG 653586



MG 655115



MG 655531



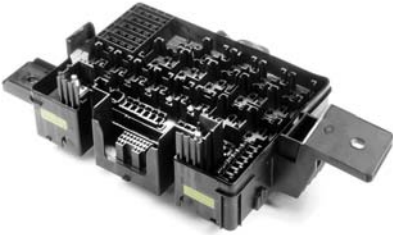
MG 663105



BOX

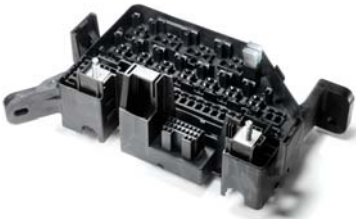
CONVENTIONAL TYPE

- ▶ Guarantee durability in any environment conditions.
- ▶ Apply smaller and lighter structure design.
- ▶ Load standardized device and realize integrated box.

Part Name & Picture	Part No.	Descriptions & Specification
JOINT BOX ASSY -ENG ROOM 	JB520021	● Engine Room Fuse Box (Conventional Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 ℃ ~ +90 ℃ ● Feature : Built Battery Charging Port
FUSE & RELAY BOX ASSY -ENG ROOM 	JB520020	● Engine Room F&R Box (Conventional Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 ℃ ~ +90 ℃ ● Feature : Ensure high reliability applying main power connect structure by Bus-Bar.
FUSE BOX ASSY -TRUNK ROOM 	JB520048	● Trunk Room Fuse Box (Conventional Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 ℃ ~ +90 ℃ ● Feature : Battery Post in series
FUSE & RELAY BOX ASSY (LH) -ENG ROOM 	JB520059	● Engine Room F&R Box (Conventional Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 ℃ ~ +90 ℃ ● Feature : Ensure high reliability applying to main power connect structure by Bus-Bar.
FUSE & RELAY BOX ASSY (RH) -ENG ROOM 	JB520061	● Engine Room F&R Box (Conventional Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 ℃ ~ +90 ℃ ● Feature : Apply structure to assembly In-line Connector and to combine joint circuit.

BOX

CONVENTIONAL TYPE

Part Name & Picture	Part No.	Descriptions & Specification
FUSE & RELAY BOX ASSY(GSL) - ENG ROOM 	JB520065	● Engine Room F&R Box (Conventional Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 °C ~ +90 °C ● Feature : Apply smaller and lighter structure design.
FUSE & RELAY BOX ASSY - ENG ROOM 	JB520134	● Engine Room F&R Box (Conventional Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 °C ~ +90 °C ● Feature : Apply Multi Fuse, EMS Block
FUSE & RELAY BOX ASSY - ENG ROOM 	JB520144	● Engine Room F&R Box (Conventional Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 °C ~ +90 °C ● Feature : Load standardized device and integrated box.
FUSE & RELAY BOX ASSY - ENG ROOM 	JB520249	● Engine Room F&R Box (Conventional Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 °C ~ +90 °C ● Feature : Apply smaller and lighter structure design.
FUSE & RELAY BOX ASSY - ENG ROOM 	MG641870	● Engine Room F&R Box (Conventional Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 °C ~ +90 °C ● Feature : Apply smaller and lighter structure design.
FUSE & RELAY BOX ASSY(DSL) - ENG ROOM 	MG643193	● Engine Room F&R Box (Conventional Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 °C ~ +90 °C ● Feature : Apply smaller and lighter structure design.

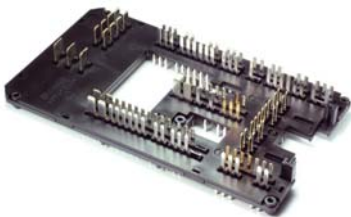
BOX

PCB TYPE

- ▶ Guarantee durability in any environment conditions.
- ▶ Easy to assemble box by applying minimal I/O connectors .
- ▶ By optimally distributed PCB or MC(metal Core) PCB, low cost design realized

Part Name & Picture	Part No.	Descriptions & Specification
IPDM ASSY - ENG ROOM 	JB520001	● Engine Room Junction Box (PCB & Bus-Bar Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 ℃ ~ +90 ℃ ● Feature : Apply Separating Control board for avoid interfering heat.
METAL CORE PCB BLOCK ASSY - ENG ROOM 	JB520184	● Engine Room Junction Block (Metal Core PCB Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 ℃ ~ +90 ℃ ● Feature : High integrated package by miniaturized device
EMS BOX ASSY - ENG ROOM 	JB520125	● Engine Room Junction Block (PCB Type) ● Rated Voltage : DC 12V ● Temperature Range : -30 ℃ ~ +90 ℃ ● Feature : Apply smaller and lighter package design.

TERMINAL SUB ASSEMBLY

Part Name & Picture	Part No.	Descriptions & Specification
TERMINAL - PLATE ASSY 	JB520034	● Inner Panel Junction Box (PCB & Bus-Bar) ● Rated Voltage : DC 12V ● Temperature Range : -30 ℃ ~ +60 ℃ ● Feature : Sub-Ass'y production including terminals by method Z-bending. Assembly terminals on the PCB at a time. Improve soldering method for convenience.

BOX

🔌 BUS-BAR TYPE

- ▶ Ensure high reliability by applying Bus-Bar Type Junction Box
- ▶ Waterproofing and drainage structure.
- ▶ Integration Type of J/Box & FAM (Front Area Module)

Part Name & Picture	Part No.	Descriptions & Specification
JUNCTION BOX ASSY -ENG ROOM 	JB520014	● Engine Room Junction Box (Bus-Bar) ● Rated Voltage : DC 12V ● Temperature Range : -30 °C ~ +90 °C ● Feature : Apply Top-down bolting type for preventing over torque When assembly I/O Connector.

🔌 BUS-BAR & WIRE TYPE

- ▶ Apply smaller and lighter structure package design.
- ▶ Easy to assemble box by applying minimal I/O connectors .
- ▶ Load standardized device and realize integrated box

Part Name & Picture	Part No.	Descriptions & Specification
JUNCTION BOX ASSY(LH) -INNER PANEL 	JB520015	● Inner Panel Junction Box (Bus-Bar & Wire) ● Rated Voltage : DC 12V ● Temperature Range : -30 °C ~ +60 °C ● Feature : Apply Bus-Bar and Wire for flexible circuit design.
JUNCTION BOX ASSY(RH) -INNER PANEL 	JB520016	● Inner Panel Junction Box (Bus-Bar & Wire) ● Rated Voltage : DC 12V ● Temperature Range : -30 °C ~ +60 °C ● Feature : Apply Bus-Bar and Wire for flexible circuit design.

CONVENTIONAL TYPE

- ▶ Guarantee durability in any environment conditions.
- ▶ Apply smaller and lighter structure design.
- ▶ Mount standardized device and realize integrated box.



Part Name & Picture	Part No.	Descriptions & Specification
PRA ASSY 	JB520161	● Current Rating: 80A ● Voltage Rating : DC 450V ● Temperature Range : -30 °C ~ +75 °C ● Pre-Charge Circuit : Include 10A
PRA ASSY 	JB520241	● Current Rating: 200A ● Voltage Rating : DC 450V ● Temperature Range : -30 °C ~ +75 °C ● Pre-Charge Circuit : Include 10A
PRA ASSY 	JB520229	● Current Rating: 80A ● Voltage Rating : DC 450V ● Temperature Range : -30 °C ~ +75 °C ● Pre-Charge Circuit : Include 10A ● Suitable : Automotive, ESS
PRA ASSY 	JB520253	● Current Rating: 80A ● Voltage Rating : DC 450V ● Temperature Range : -30 °C ~ +75 °C ● Pre-Charge Circuit : Include 10A
PRA ASSY 	JB520262	● Current Rating: 80A ● Voltage Rating : DC 450V ● Temperature Range : -30 °C ~ +75 °C ● Pre-Charge Circuit : Include 10A
PRA ASSY 	JB520319	● Current Rating: 80A ● Voltage Rating : DC 270V ● Temperature Range : -40 °C ~ +85 °C ● Pre-Charge Circuit : Include 20A
PRA ASSY 	JB520382	● Current Rating: 100A ● Voltage Rating : DC 360V ● Temperature Range : -40 °C ~ +85 °C ● Pre-Charge Circuit : Include 20A

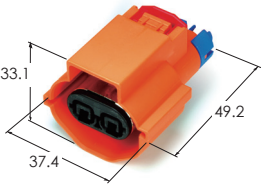
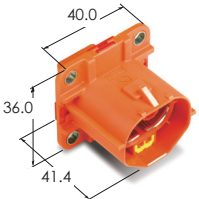
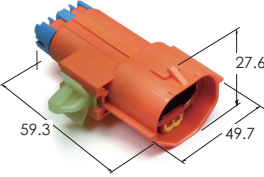
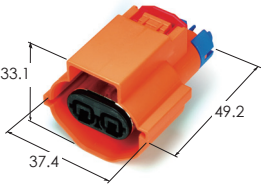
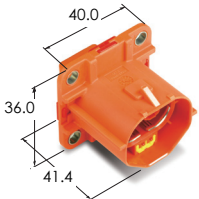
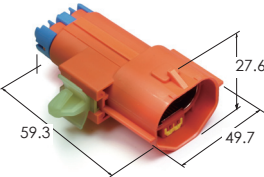
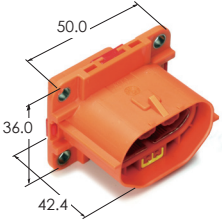
HIGH VOLTAGE PRODUCT

HIGH VOLTAGE CONNECTOR(20A)

MATERIAL	Current Rating	20A
	Voltage Rating	DC 650V
	Waterproof	IP67
	Temperature Range	-40℃ ~ +120℃
	Applicable Terminal	KET 280 Terminal Interlock : 2P(064) / 3P(040III)
	Wire Range	3SQ, Shield Wire

- ▶HV Connector is suitable to xEV's HVAC systems (Air-Con, PTC, Coolant and etc.)
- ▶Inter-Lock is included for safety.
- ▶EMC shield is included



Poles	20A female Connector	20A Male Connector	20A Male W to W Connector
2	MG655710(A) MG655711(B) MG655712(C) MG655713(D) 	MG645705(A) MG645706(B) MG645707(C) MG645513(D) 	MG645729(A) MG645730(B) MG645731(C) MG645732(D) 
	IP1XA applied		
2	MG655773(A) MG655774(B) MG655775(C) MG655776(D) 	MG645814(A) MG645815(B) MG645816(C) MG645817(D) 	MG645862(A) MG645863(B) MG645864(C) MG645865(D) 
	IP2XB applied		
3	MG 655661(A) MG 655662(B) MG 655663(C) MG 655664(D) 	MG 645708(A) MG 645709(B) MG 645710(C) MG 645711(D) 	
	IP1XA applied		

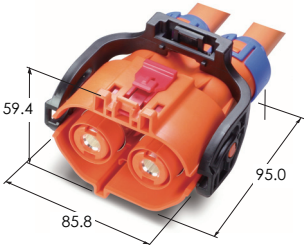
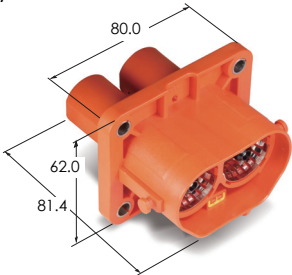
HIGH VOLTAGE PRODUCT

HIGH VOLTAGE CONNECTOR(200A)

MATERIAL	Current Rating	200A
	Voltage Rating	DC 650V
	Waterproof	IP67
	Temperature Range	-40℃ ~ +120℃
	Applicable Terminal	KET Ø9 Terminal Interlock : KET 040(2P) Terminal
	Wire Range	40SQ, Shield Wire

- ▶ Connect Battery and Inverter to supply high voltage to Inverter
- ▶ Inter-Lock is included for safety.
- ▶ EMC shield is included



Poles	200A female Connector	200A Male Connector
2	MG 655717-11(A) MG 655718-11(B)	MG 645748-11(A) MG 645759-11(B)
		

CHARGE COUPLER

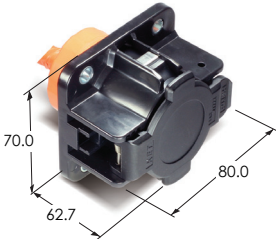


- ▶ Proximity detection circuit of SAE J1772 is installed with pin 3 and 5
- ▶ This coupler complies with SAE J1772 rev 2010
- ▶ Currently under validation testing procedure (According to SAE J1772)

MATERIAL

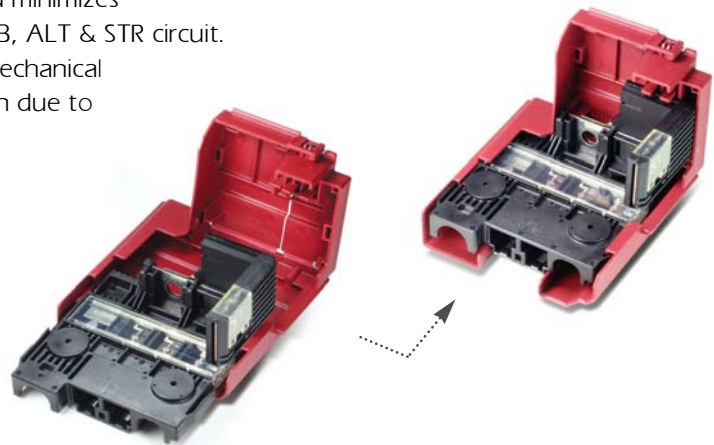
1. Current and Voltage Rating
 - AC Level 1, 2 available
 - 450Vac Withstanding Voltage
2. Proximity detection circuit of SAE J1772 is installed with pin 3 & 5
3. This coupler comply with SAE J1772 rev2010
4. IP Grade : IP 64

(finger protection and dust cap applied in Inlet coupler)

Poles	SAE Charge Plug Assy	SAE Charge Inlet Assy
5	MG 665453	MG 655361
		

BFT(Battery Fuse Terminal)

- ▶ Direct Connection to Battery of which method minimizes temperature rise under J/Box and protects J/B, ALT & STR circuit.
- ▶ Insert Molding production method improves mechanical strength and prevents secondary electrification due to vibration after passing melting point.
- ▶ Apply double crimping method for high current Fuse type.



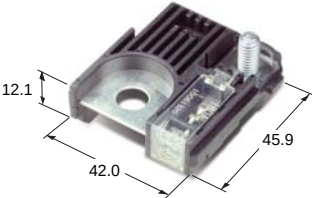
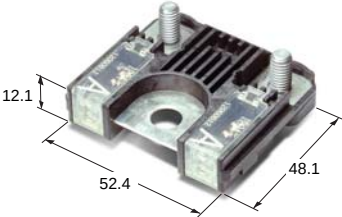
🔌 BFT(BATTERY FUSE TERMINAL)

Poles	BFT	
4	MG 665182 (150A, 80A, 80A, 400A) MG 664458 (150A, 80A, 80A, 430A) MG 665573 (150A, 100A, 80A, 200A)	
1	MG 665187 (80A) MG 665189 (100A)	
Type	BFT CAP	
A	MG 635224-1 (4P BFT + 1P BFT)	
B	MG 637520-1 (4P BFT ONLY)	

BFT(Battery Fuse Terminal)

- ▶ Direct Connection to Battery of which method minimizes temperature rise under J/Box and protects J/B, ALT & STR circuit.
- ▶ Insert Molding production method improves mechanical strength and prevents secondary electrification due to vibration after passing melting point.
- ▶ Apply double crimping method for high current Fuse type.

➡ BFT(BATTERY FUSE TERMINAL)

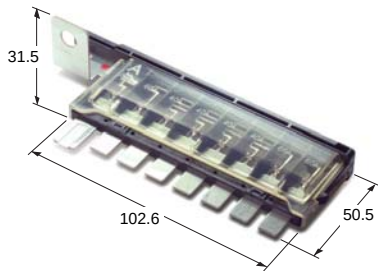
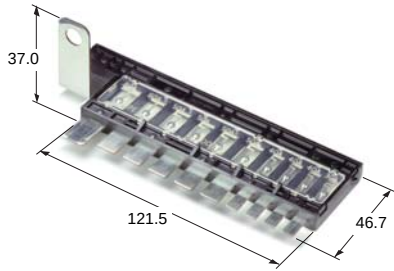
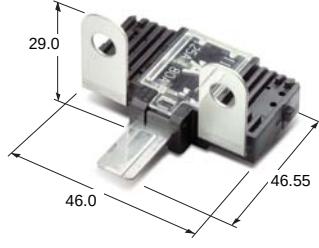
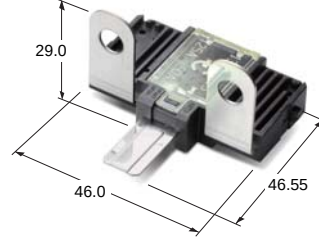
Poles	BFT
1	MG 664457 (150A) MG 664458 (180A) MG 665636 (200A) 
2	MG 664136 (120A, 120A) MG 665001 (150A, 150A) MG 665284 (150A, 180A) MG 665635 (150A, 200A) 

BFT

MULTI FUSE

- Reserving layout space within Box and reduce assembly cost.
- Insert Molding production method improves mechanical strength and prevents secondary electrification due to vibration after passing melting point.
- Stabilized melting point for high current fuse type.

➡ MULTI FUSE

Poles	BFT
8	MG664454 80A, 60A, 40A, 40A, 40A, 40A, 60A, 60A MG664869 80A, 60A, 40A, 40A, 40A, 40A, 40A, 60A MG665222 80A, 60A, 40A, 60A, 40A, 40A, 60A, 60A 
10	MG665614 80A, 60A, 50A, 50A, 50A, 50A, 40A, 40A, 40A, 30A MG665615 100A, 60A, 60A, 50A, 50A, 50A, 40A, 40A, 40A, 30A 
2	MG665216: 80A, 125A MG665218: 80A, 150A 
	MG665611: 50A, 125A 

SENSOR

- ▶ High strength, small size and low cost.
- ▶ Applied waterproof / heat-resistant material
- ▶ Digital(PSI5), Analog(Voltage) output

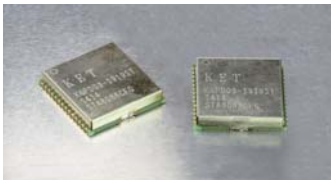
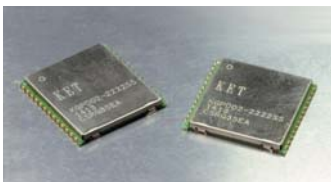
SENSOR

	Part Name & Picture	Part No.	Descriptions & Specification
SIS		EM450007	
		EM450018 EM450046	● Airbag sensor (Accelerometer type) ● FIS : Front Impact Sensor / Mounted in front of the vehicle ● SIS : Side Impact Sensor / Mounted on the side of the vehicle(B-pillar, C-pillar) ● Applied PSI5 communication interface ● Applied Press-fit Terminal→Unnecessary soldering process ● Installable in the engine room→ Waterproof and heat-resistant material ● High strength, small size and low cost / Simple structure and circuit constitution / High-strength casing
FIS		EM450008	
		EM450017 EM450045	
PSIS		EM450009	● Airbag sensor [Pressure sensor type] ● PSIS : Pressure Side Impact Sensor. / Mounted in front door of the vehicle ● Applied PSI5 communication interface ● Applied Press-fit Terminal→Unnecessary soldering process ● Waterproof and heat-resistant material ● High strength, small size and low cost / Simple structure and circuit constitution / High-strength casing ● Applied venturi type intake/Increased sensor response
		EM450047	

IT MODULE (GNSS)

- ▶ DR (dead reckoning) GNSS Modules are modules with integrated and external gyro sensor.
- ▶ GNSS Module delivers excellent navigation accuracy with low power consumption.
- ▶ GNSS Module delivers enhanced TTFF (time to first fix) with InstantFix II™ technology and excellent navigation accuracy.



Appearance	Material	Specification
GWG4280SX 	-SIZE(mm) : 53.0 × 47.0 × 14.1 -MAIN IC : SiRFstar 3-LPx	● Stand Alone GPS Receiver ● GPS Module + Antenna + Cable type ● 4/6 pin minidin, ϕ2.5/3.5 stereo ● Automotive Application ● AVN, Navigation, PND Application
KGPD04-1919SR 	-SIZE(mm) : 19.0 × 19.0 × 3.5 -MAIN IC : SiRFstar 3-LPx	● Automotive IC (AEC-Q100) ● Dead Reckoning Support ● Gyro not included in module ● Automotive Application
KGPM03-1316S4 	-SIZE(mm) : 15.9 × 13.1 × 2.8 -MAIN IC : GSD4e-9411	● GPS Receiver ● Fast fix time (Instant Fix II) ● Active jamming Remover (80dB/Hz) ● AVN, Navigation, PND, Application
KGPD03-1919ST 	-SIZE(mm) : 19.0 × 19.0 × 3.5 -MAIN IC : STA8088CFG	● Automotive IC (AEC-Q100) ● Dead Reckoning Support ● Gyro included in module ● Automotive Application
KGPD02-2222S5 	-SIZE(mm) : 22.2 × 22.2 × 2.6 -MAIN IC : CSR35EA	● Automotive IC (AEC-Q100) ● Dead Reckoning Support ● Used to CAN Signal ● Automotive Application

IT MODULE (Wireless Communication)

- ▶ KWRA01-1823AP is Wi-Fi module with USB2.0 interface.
It supports AP mode as well as client mode via its soft AP function.
It complies with IEEE802.11b/g standards
- ▶ KWFR04-1212NM is Wi-Fi module with SDIO interface and 1T2R.
- ▶ KBTC04-1313EX complies with Bluetooth Version 2.1+EDR and integrates RF & Baseband controller in small package.



Appearance	Material	Specification
KWRA01-1823AP 	-SIZE(mm) : 18.0 × 23.01 × 3.5 -MAIN IC : Ralink RT3070	● Wi-Fi Module (IEEE 802.11 b/g) ● Max Data Rate : 54Mbps ● Host Interface : USB2.0 ● Automotive Application ● AVN, Navigation, PND Application
KWFR04-1212NM 	-SIZE(mm) : 12.0 × 12.5 × 2.5 -MAIN IC : Realtek RTL8712	● Wi-Fi Module (IEEE 802.11 b/g/n) ● Max Data Rate : Tx 150Mbps, Rx 300Mbps ● 1T2R (MISO : Multi Input Single Output) ● Host Interface : SDIO2.0 ● AVN, Navigation, PND Application
KBTC04-1313EX 	-SIZE(mm) : 13.0 × 13.0 × 2.8 -MAIN IC : CSR BC04-EXT	● Bluetooth Module (BT 2.1+EDR) ● Bluetooth Class 2 (Tx power : -6 ~ 4 dBm) ● Host Interface : UART ● Profile : SPP, HID ● HID, Data Communication
KBTR02-1311BR 	-SIZE(mm) : 11.0 × 13.0 × 3.0 -MAIN IC : BCM29071	● Bluetooth Module (BT4.0+EDR) ● Automotive IC (AEC-Q100/200) ● Host Interface : UART ● Profile : HFP/HSP, A2DP, AVRCP etc. ● Automotive Application
KWBT06-2219BR 	-SIZE(mm) : 19.0 × 22.0 × 3.5 -MAIN IC : BCM89335	● Wi-Fi/Bluetooth Combo Module ● BT 3.0 + HS Support ● Wi-Fi 802.11 a/b/g/n/ac Support ● Profile : HFP/HSP, A2DP, AVRCP etc. ● Host Interface : UART(BT),SDIO3.0(Wi-Fi) ● Automotive Application(AEC-Q100/200)

ELECTRONIC CONNECTOR

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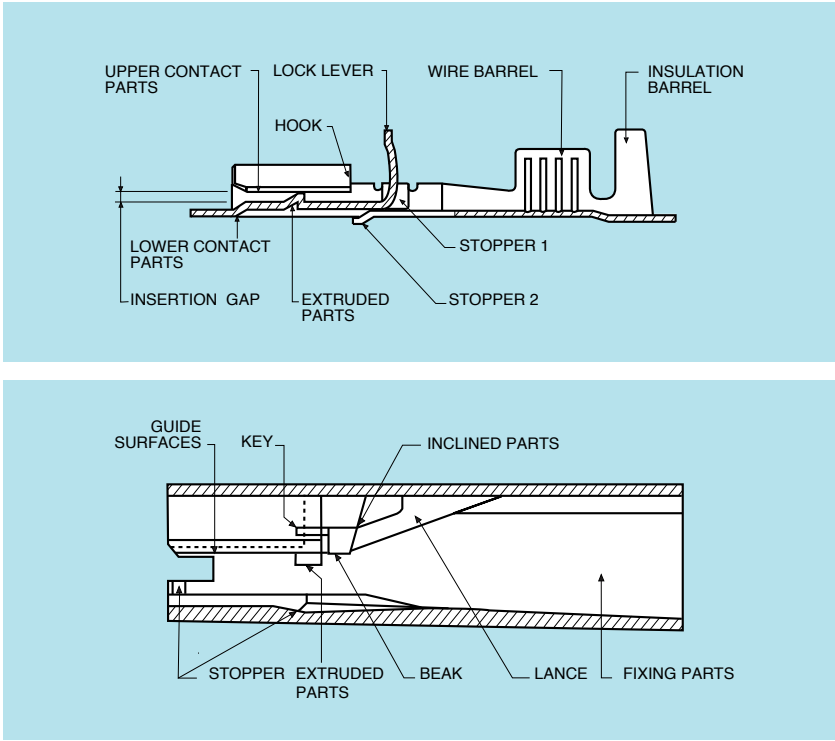


ELECTRONIC CONNECTOR

In the 21st century, telecommunication technology will make national boundaries meaningless and create a single faster and more convenient world. Growing out of a 'connector' maker, KET now entertains dream to leap forward to become a comprehensive component producer in the 21st century by adding a group of telecommunication-related goods to its product list as a strategic business. The components for optical and mobile communications that KET is currently manufacturing will make great contribution to creating a more convenient world.

P-LOCK CONNECTOR

FEATURES



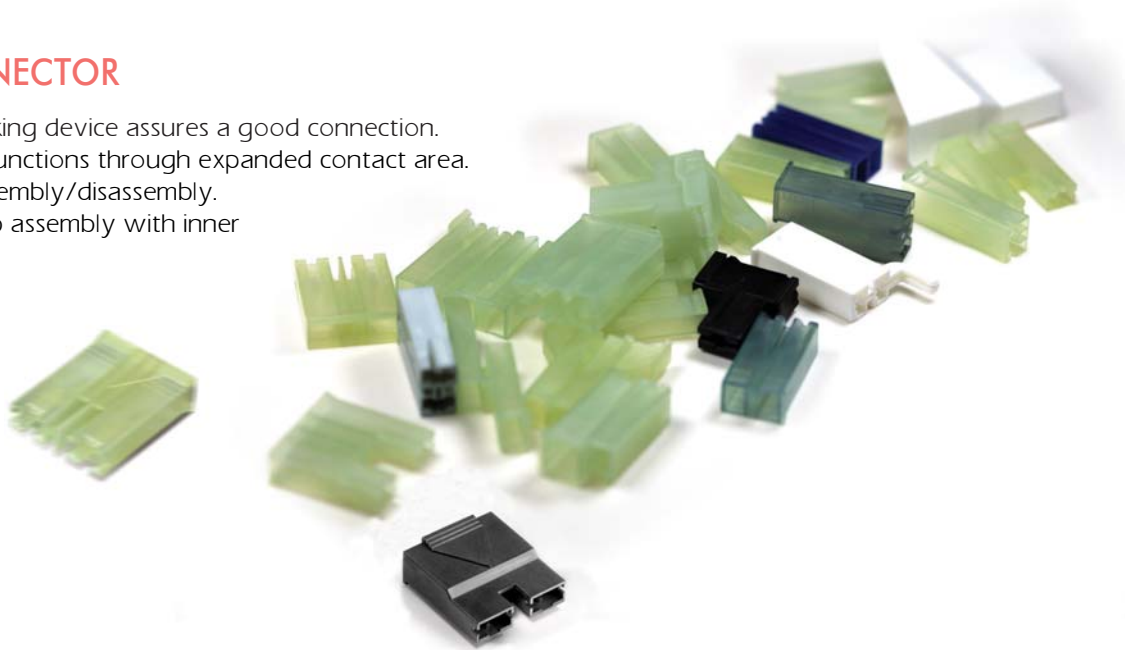
SPECIFICATIONS

	187 P-LOCK	250 P-LOCK
VOLTAGE RATING	250 V/AC(Dielectric Strength:2,000V/min)	
CONTACT RESISTANCE	3 m Ω max (Initial) 6 m Ω max (Final)	
OPERATING TEMPERATURE	-40℃ +105℃(Temp. Rise Test)	
TERMINAL LOCKING FORCE	6Kg min	8Kg min
CONNECTOR ASS'Y IN & OUT	IN: 3.0 OUT: 0.6~3.0	IN: 3.5 OUT: 0.6~3.5
RETENTION FORCE	5.0Kg min	6.0Kg min
INSULATION RESISTANCE	1,000M Ω min	

P-LOCK CONNECTOR

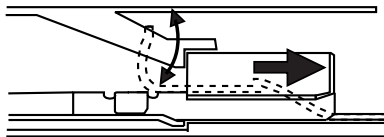
P-LOCK CONNECTOR

- ▶ Built-in positive locking device assures a good connection.
- ▶ Improve electrical functions through expanded contact area.
- ▶ Quick and easy assembly/disassembly.
- ▶ Minimize a poor tab assembly with inner stopper structure.



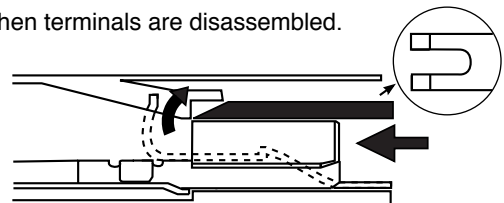
HOUSING, TERM' FEATURES

1. When terminals are connected.



- Condition of receiver terminals contained within housings.

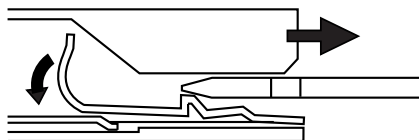
2. When terminals are disassembled.



- Jig is inserted in arrow direction, and receiver terminals are removed after lowering lance in arrow direction, when removing receiver terminals from housings.

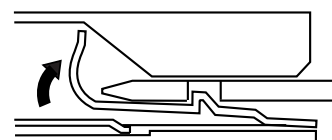
LOCKING MECHANISM

1. When inserted in tabs



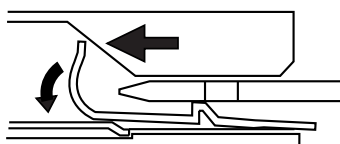
- Initial Conditions of receiver terminals and tabs lever descends in arrow direction.

2. Locking condition



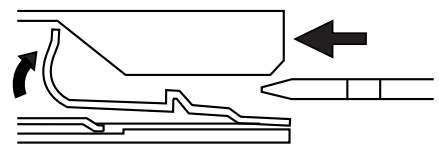
- Complete insertion of terminals and tabs Lever rises in arrow direction.

3. Connector disassembly



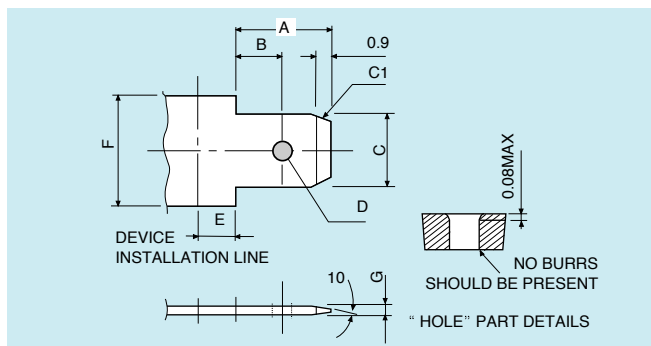
- Initial condition when housings disassembled from connected condition. Lever descends in arrow direction.

4. Disassembled condition



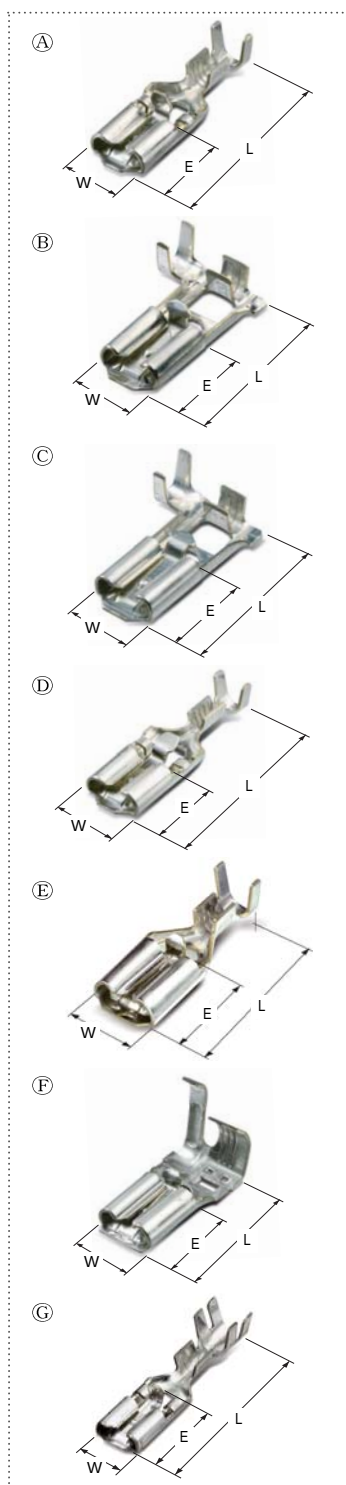
- Completely disassembled condition lever returns to original location.

P-LOCK CONNECTOR



TAB SIZE	187 P-LOCK	250 P-LOCK
A	6.35 ± 0.15	7.95 ± 0.15
B	3.2 ± 0.1	3.4 ± 0.1
C	4.75 ± 0.1	6.35 ± 0.1
D	$\varnothing 1.3 \pm 0.2$	$\varnothing 1.65 \pm 0.2$
E	2.5Min	2.9Min
F	5.4Min	7.3Min
G	0.5 ± 0.02	0.8 ± 0.02

TERMINAL



Part No.	Wire Range		Material		Dimension(mm)			Type
	AWG	mm ²	Thick.	Finish	L	E	W	
△ ST 730570-3	22-18	0.31-0.89 ($\varnothing 0.8$ Solid)	0.4	Brass Pre-Tin	22.8	6.5	7.6	A
△ ST 730571-3	18-14	0.76-2.09	0.4	Brass Pre-Tin	22.8	6.5	7.6	
△ ST 730572-3	12-10	3.0-5.4	0.4	Brass Pre-Tin	22.8	6.5	7.6	
ST 731016-3	20+20 18+18	0.5+0.5 0.76+0.76	0.4	Brass Pre-Tin	22.8	6.5	7.6	B
■ ST 730573-3	Solid Wire	0.75-2.27	0.4	Brass Pre-Tin	19.4	8.0	7.6	
△ ST 730574-3	18-14	0.75-2.27	0.4	Brass Pre-Tin	19.4	8.0	7.6	
■ ST 730575-3	Solid Wire	1.0+1.0 1.0+1.2	0.4	Brass Pre-Tin	19.4	8.0	7.6	F
ST 730663-3	Solid Wire	3.0	0.4	Brass Pre-Tin	19.4	8.0	7.6	
■ ST 730649-3	18-12	0.75-3.0	0.4	Brass Pre-Tin	15.8	7.8	7.6	

250 TERMINAL(SLEEVE TYPE)

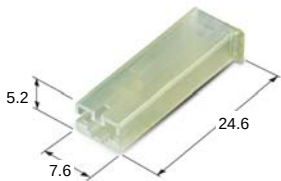
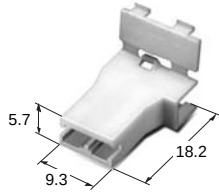
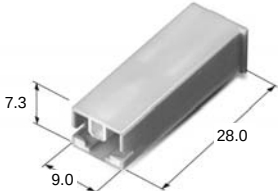
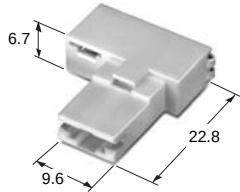
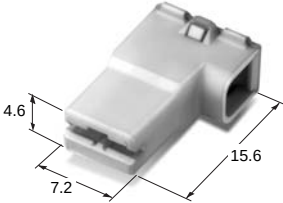
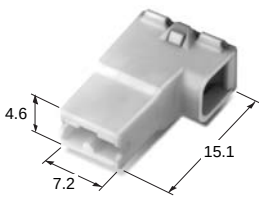
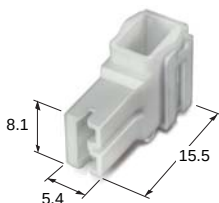
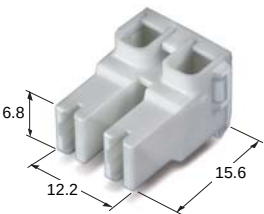
△ ST 730619-3	22-18	0.31-0.89	0.4	Brass Pre-Tin	22.8	6.5	7.6	D
△ ST 730620-3	18-14	0.76-2.09	0.4	Brass Pre-Tin	22.8	6.5	7.6	
△ ST 730621-3	12-10	3.10-5.4	0.4	Brass Pre-Tin	22.8	6.5	7.6	
ST 731018-3	20+20 18+18	0.5+0.5 0.76+0.76	0.4	Brass Pre-Tin	22.8	6.5	7.6	C
ST 730598-3	18-14	0.75-2.27	0.4	Brass Pre-Tin	19.4	8.2	7.6	
△ ST 731394-3S	22-20	0.34-0.53	0.4	Brass Pre-Tin	19.6	7.8	7.6	E
△ ST 731394-3M	18-16	0.80-1.38	0.4	Brass Pre-Tin	19.6	7.8	7.6	
△ ST 731394-3L	14-12	2.17-3.45	0.4	Brass Pre-Tin	19.6	7.8	7.6	
△ ST 731394-3XL	10	5.22	0.4	Brass Pre-Tin	19.6	7.8	7.6	

187 TERMINAL

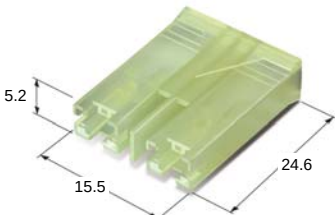
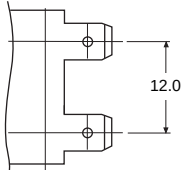
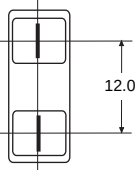
△ ST 730567-3	24-20	0.22-0.5	0.3	Brass Pre-Tin	19.2	5.0	5.6	A
ST 730678-3								D
■ ST 730710-3								
△ ST 730568-3	18-16	0.76-1.28	0.3	Brass Pre-Tin	19.2	5.0	5.6	A
◇ ST 730679-3								D
■ ST 730711-3								
△ ST 730569-3	18-14	0.76-2.09	0.3	Brass Pre-Tin	19.2	5.0	5.6	A
ST 730680-3								D
■ ST 730712-3								
■ ST 731079-3	22-16	0.3-1.25	0.3	Brass Pre-Tin	16.2	6.4	5.6	F
■ ST 731261-3	20-16	0.5-1.25	0.3		21.3	5.0	5.6	G
■ ST 731262-3	20+20 18+18	1.0-1.5	0.3		21.3	5.0	5.6	

P-LOCK CONNECTOR

IP/2P HOUSING

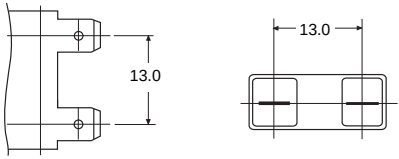
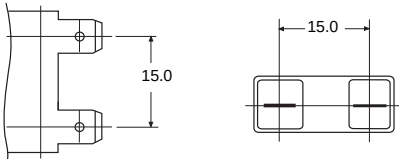
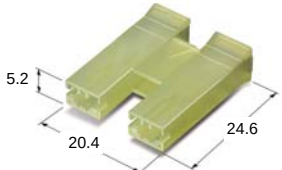
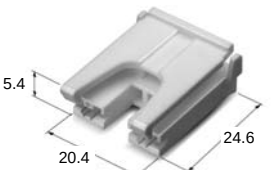
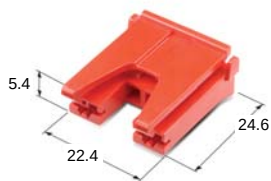
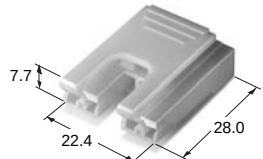
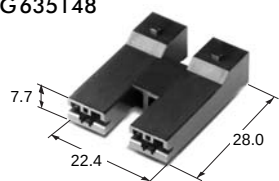
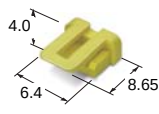
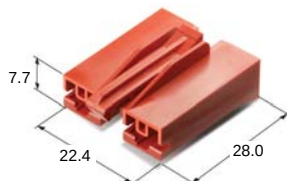
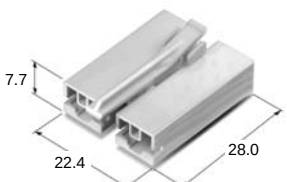
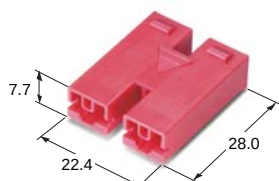
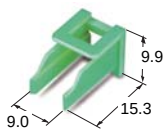
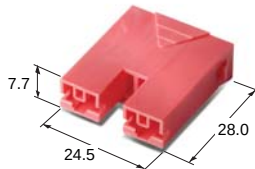
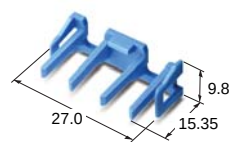
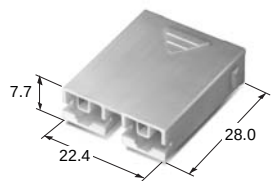
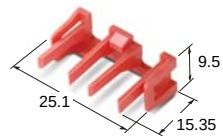
Poles	Plug housing for female terminal		
1	MG 630588(187)(V2) MG 635007(V0)  Suitable Terminal: ST 730567, ST 730568, ST 730569	MG 631190(187)  Suitable Terminal: ST 730567, ST 730568, ST 730569	MG 633976(250)(V0) MG 633976K(GWIT)  Suitable Terminal: ST 730649
	MG 630591(250)(V2) MG 630591R(UL94V0)  Suitable Terminal: ST 730570, ST 730571, ST 730572	MG 630592(250)(V2) MG 630592R(UL94V0)  Suitable Terminal: ST 730573, ST 730574, ST 730575	MG 613472  Suitable Terminal: ST 730573, ST 730574, ST 730575
	MG 634151  Suitable Terminal: ST 731079	MG 635030  Suitable Terminal: ST 731079	MG 635645  Suitable Terminal: ST 731079
	MG 635621  Suitable Terminal: ST 731079 Suitable Pitch: 7.0mm		
2			

CONDENSER HOUSING

2	MG 630822(187)    Suitable Terminal: ST 730567, ST 730568, ST 730569
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P-LOCK CONNECTOR

WATER SUPPLY VALVE HOUSING

Poles	Plug housing for female terminal	
Pitch		
	MG 630839(V2) MG 630839P (GWIT) MG 630839R(V0)   Suitable Terminal: ST 730567, ST 730568, ST 730569	MG 633767 MG 633987-1  Suitable Terminal: ST 730567, ST 730568, ST 730569
187	MG 635371 (GWIT) MG 635149-1 (R/H)   MG 635148 MG 635705-3 (R/H)   Suitable Terminal: ST 731261, ST 731262	MG 633986-1  Suitable Terminal: ST 730570, ST 730571, ST 730572
250	MG 633814(V0) MG 633814L(V0) MG 633814T (GWIT)  MG 635262-1 MG 635145-6 (R/H)   Suitable Terminal: ST 730570, ST 730571, ST 730572	MG 634915-1 MG 634916-2 (R/H)   Suitable Terminal: ST 730570, ST 730571, ST 730572
	MG 634108 MG 634108T MG 634825-1 (R/H)   Suitable Terminal: ST 730570, ST 730571, ST 730572	

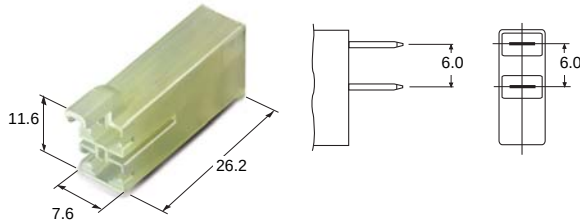
P-LOCK CONNECTOR

RELAY S/W HOUSING

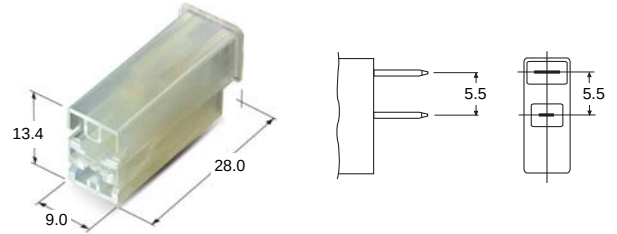
Poles

Plug housing for female terminal

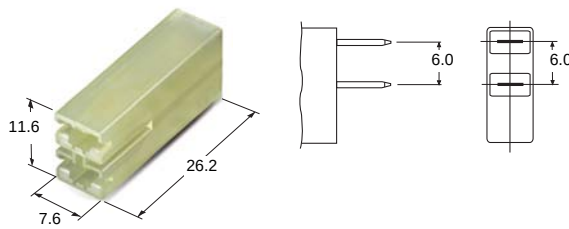
MG 630589(187)



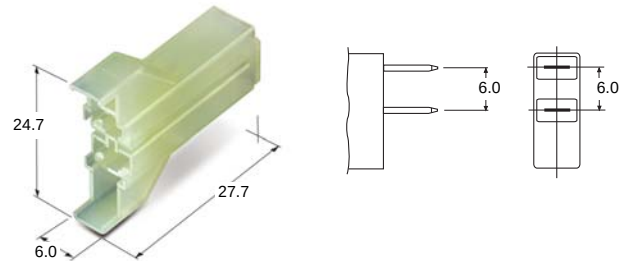
MG 631980(250+187)



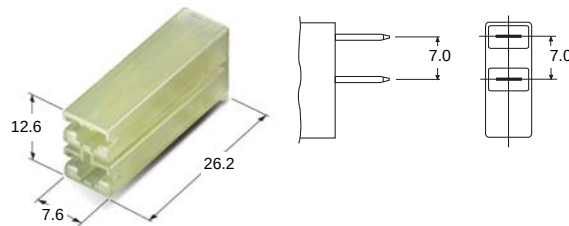
MG 630618(187)



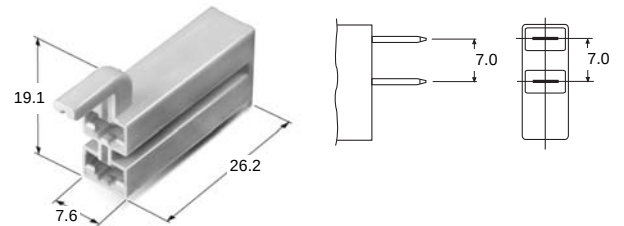
MG 631189(187)



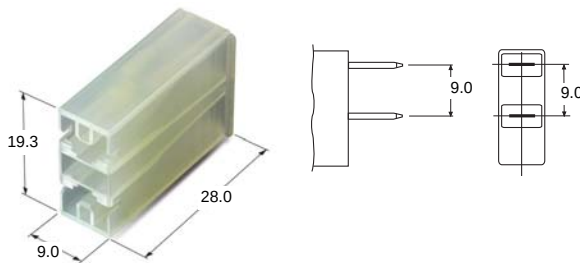
MG 630821(187)



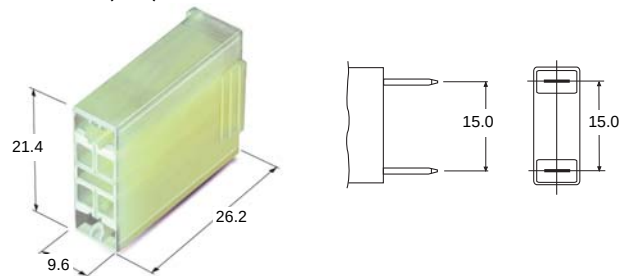
MG 631130(187)
(Material:P.B.T)



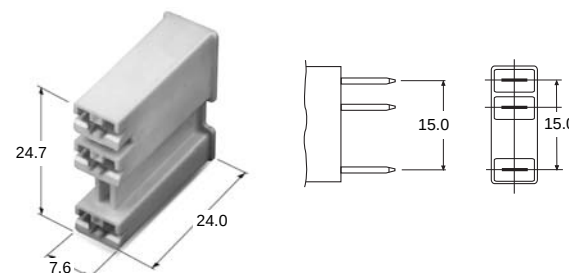
MG 632201 (250) MG 632201R(UL94V0)



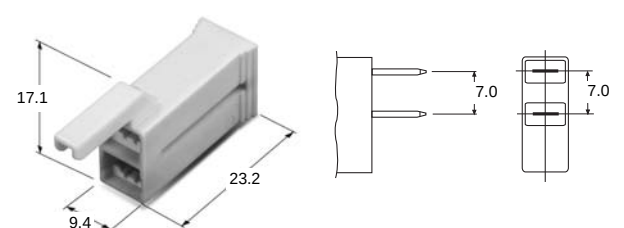
MG 633145(187)



MG 633917(187)-3Poles



MG 613435(187)

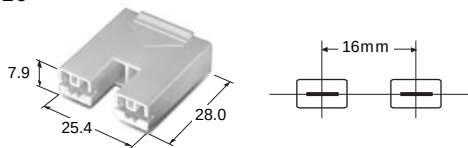
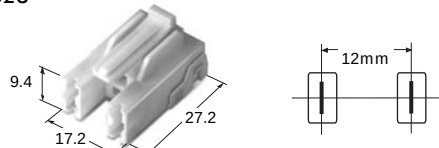
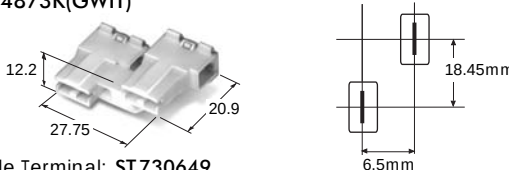
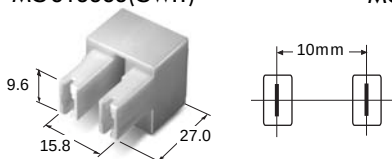
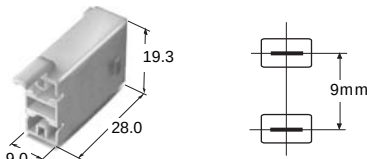
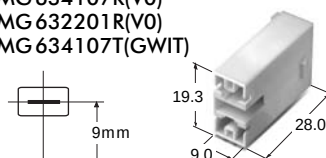
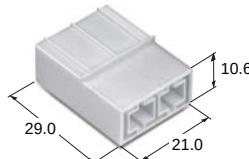
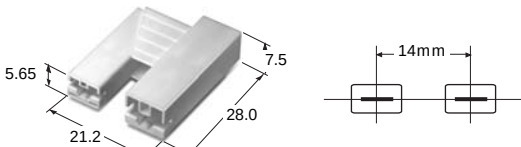
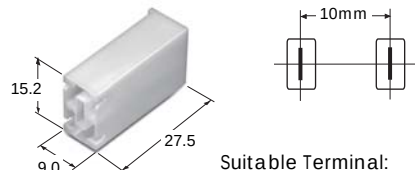


Suitable Terminal: ST 730567, ST 730568, ST 730569

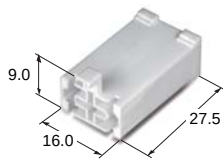
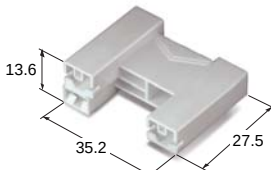
P-LOCK

P-LOCK CONNECTOR

250 HOUSING

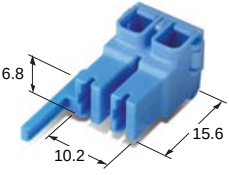
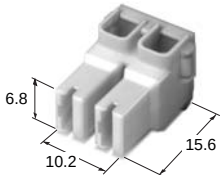
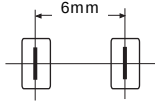
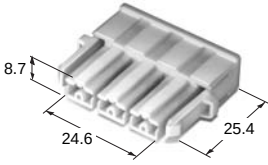
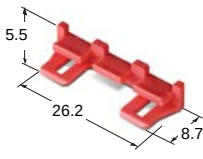
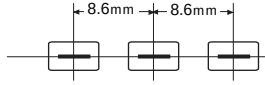
Poles		Plug housing for female terminal	
2	MG 634620  Suitable Terminal: ST 730570, ST 730571, ST 730572	MG 634028  Suitable Terminal: ST 730573, ST 730574, ST 730575, ST 730663	
	MG 634873(V0) MG 634873K(GWIT)  Suitable Terminal: ST 730649	MG 613363(GWIT)  Suitable Terminal: ST 730573, ST 730574, ST 730575, ST 730663	MG 633364(R/H) 
	MG 635387  Suitable Terminal: ST 730570, ST 730571, ST 730572	MG 634455  Suitable Terminal: ST 730570, ST 730571, ST 730572	MG 634456(R/H) 
	MG 634107R(V0) MG 632201R(V0) MG 634107T(GWIT)  Suitable Terminal: ST 730570, ST 730571, ST 730572	MG 634882-2(R/H) 	MG 625029  Suitable Terminal: ST 740050, ST 740314
	MG 634407(250+187)  Suitable Terminal: 250- ST 730570, ST 730571, ST 730572 187- ST 730567, ST 730568, ST 730569	MG 635465  Suitable Terminal: ST 730570, ST 730571, ST 730572	

REGULATOR VALVE HOUSING

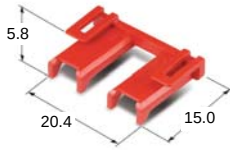
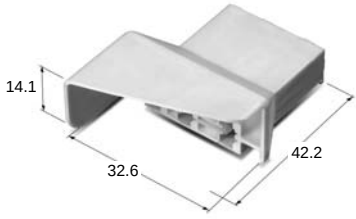
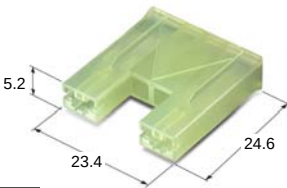
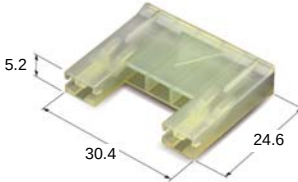
Poles		Plug housing for female terminal		
2	MG 615569	MG 615570(Pitch:10.8mm)	MG 615572(Pitch:17.95mm)	
				
3	MG 615571			
				

P-LOCK CONNECTOR

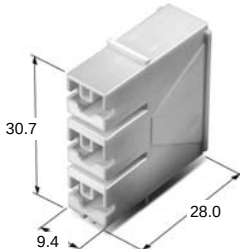
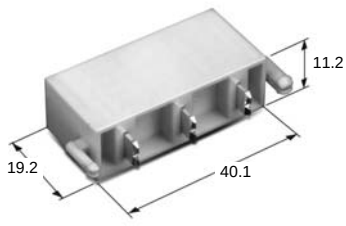
250/187 HOUSING

Poles	Plug housing for female terminal		
2	MG 634870 	MG 635263 	 Suitable Terminal: ST 731079
3	MG 615070 	MG 635071-1(R/H) 	 Suitable Terminal: ST 731261, ST 731262

MOTOR HOUSING

Poles	Plug housing for female terminal		
2	MG 632202R (V0) Pitch:13mm MG 632202T (GWIT)  250 Suitable Terminal: ST 730869, ST 730222	MG 633858-1(R/H) 	MG 631356 Pitch:7.0/9.5mm  3 Suitable Terminal: ST 730567, ST 730568, ST 730569
2	MG 630721 Pitch:16mm  187 Suitable Terminal: ST 730567, ST 730568, ST 730569	MG 631183 Pitch:23mm 	

250 PCB HOUSING

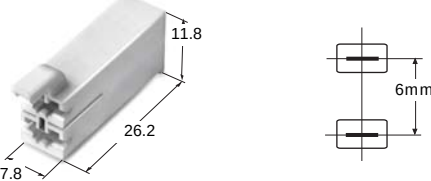
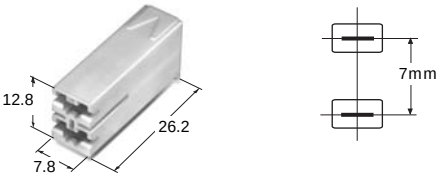
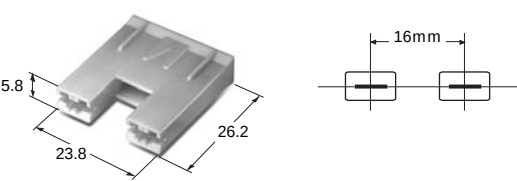
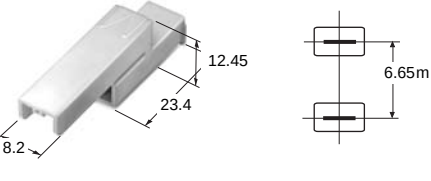
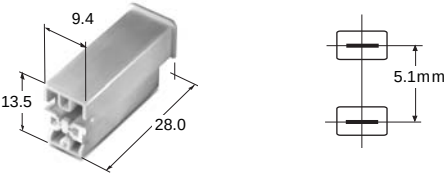
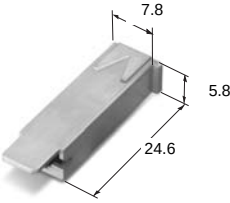
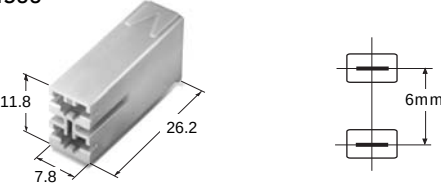
3	MG 613365 Pitch:11mm  Suitable Terminal : ST 730570, ST 730571, ST 730572	MG 643366 Pitch:11mm 	
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P-LOCK CONNECTOR

⦿ MICRO S/W HOUSING(I87)

Poles	Plug housing for female terminal	
2	MG 630846 	
3	⚠ MG 630590(V2) MG 630590R(V0)  Suitable Terminal: ST 730567, ST 730568, ST 730569	

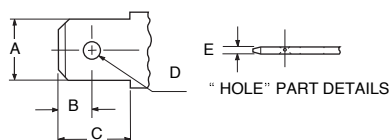
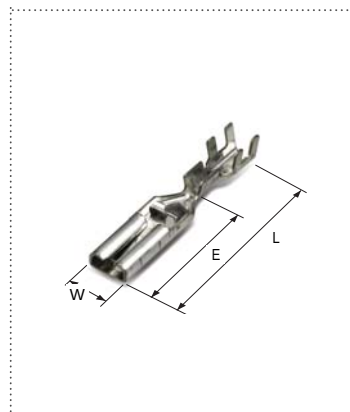
⦿ I87 HOUSING

Poles	Plug housing for female terminal	
2	■ MG 634526(V0) MG 634526T(GWIT) 	■ MG 634531 
	■ MG 634529 	■ MG 634528(V0) MG 634528T(GWIT) 
	■ MG 634527 	■ MG 634530 
	■ MG 634532 	■ MG 634533 

Suitable Terminal: ST 730567, ST 730568, ST 730569

P-LOCK, 312, 250 CONNECTOR

IIO HOUSING



TAB	A	B	C	D	E
IIO(P-LOCK)	2.8 ^{+0.1}	1.3-1.8	8.1min	φ1.2 ^{+0.1}	0.5 ^{+0.025}

Part No.	Wire Range		Tab		Material	Dimension(mm)			Type
	AWG	mm ²	Thick.	Thick.		L	E	W	
■ ST731177-3	24-20	0.5-0.22	0.5	0.25	Brass	18.9	6.0	3.8	
					Pre-Tin				
■ ST731217-3	18-16	1.25-0.85	0.5	0.25	Brass	18.9	6.0	3.8	
	20+20	0.5+0.5			Pre-Tin				
	22+22	0.3+0.3							

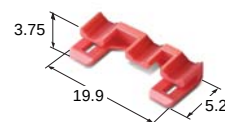
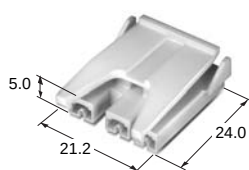
Poles

Plug housing for female terminal

■ MG 634707

MG 634708-1(R/H)

3



312 HOUSING

Poles

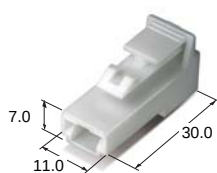
Plug housing for female terminal

Receptacle housing for male terminal

MG 613084T

MG 623085T

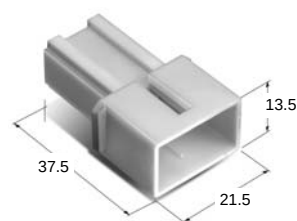
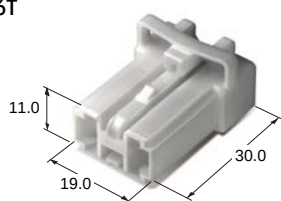
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MG 612006T

MG 622007T

2



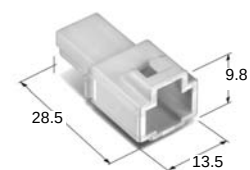
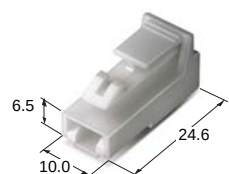
250 HOUSING

Suitable Terminal : ST 730371, ST 730372, ST 740370, ST 740399

MG 611933

MG 621934

1

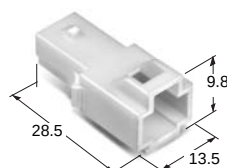
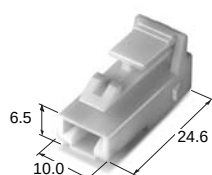


■ MG 615077

MG 635079-1(R/H)

■ MG 625076

MG 635078-1(R/H)

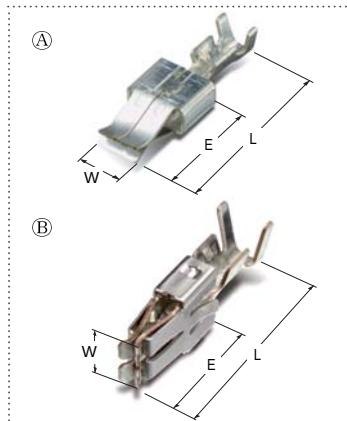


Suitable Terminal : ST 730267, ST 730268, ST 730269, ST 740253, ST 740254, ST 740255

KOREA ELECTRIC TERMINAL CO., LTD.
www.ket.com

250(Door Lock S/W) CONNECTOR

TERMINAL



Part No.	Wire Range		Tab		Material	Dimension(mm)			Type
	AWG	mm ²	Thick.	Thick.		L	€	W	
ST730948-3	22-20	0.3-0.5	0.8	0.35	Brass Pre-Tin	20.2	11.4	4.7	A
ST730993-3	18-16	0.75-1.25	0.8	0.35	Brass Pre-Tin	20.2	11.4	4.7	
ST731329-3	16+20 18+22	1.15-1.75	0.8	0.35	Brass Pre-Tin	20.2	11.4	4.7	
ST731393-3M	16(1015/1569) 16+22(1569)	1.30 1.30+0.35	0.8	0.45	Cover : SUS Body : Copper Alloy /Tre-Tin	19.2	11.4	4.8	B

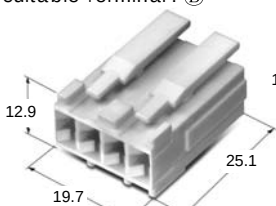
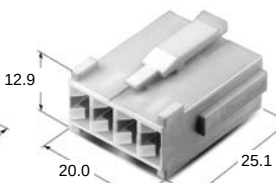
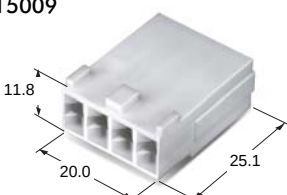
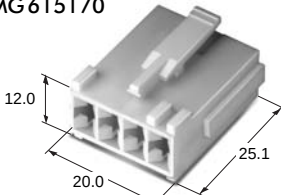
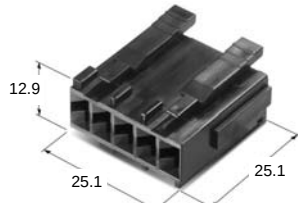
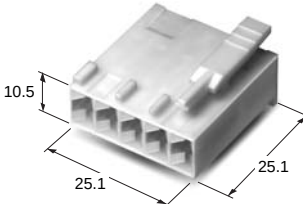
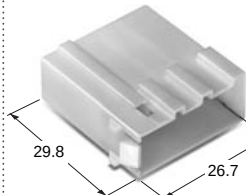
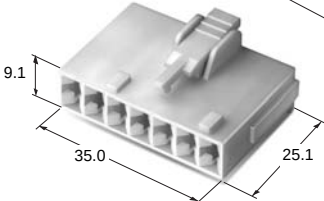
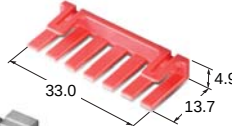
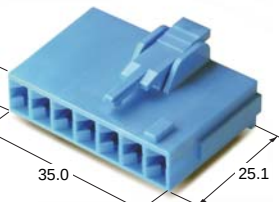
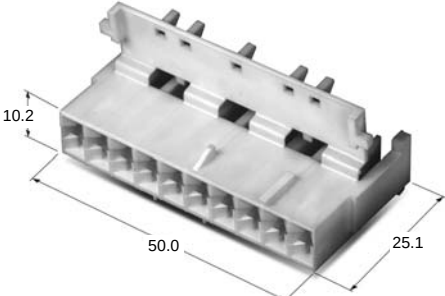
HOUSING

Poles	Plug housing for female terminal			Receptacle housing for male terminal
2	MG 613428	MG 613418	MG633658-1(R/H)	MG623798
	MG 613871	MG 615414		Suitable Housing : MG 613418 Suitable Terminal : ST 740050, ST 740314
3	MG 613040	MG 613041-5		MG 625225(GWIT)
	MG 613356	MG 633659-1(R/H)	MG 615560-2	MG 635226-1(R/H)
	MG 614871-2	MG 614705	MG 615588 Suitable Terminal : B	
				Suitable Housing : MG 614705 Suitable Terminal : ST 740050, ST 740314

[(H) Height Removed Rib:9.1(mm)]

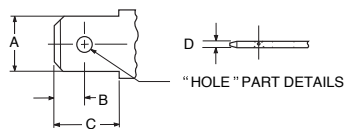
250(Door Lock S/W) CONNECTOR

HOUSING

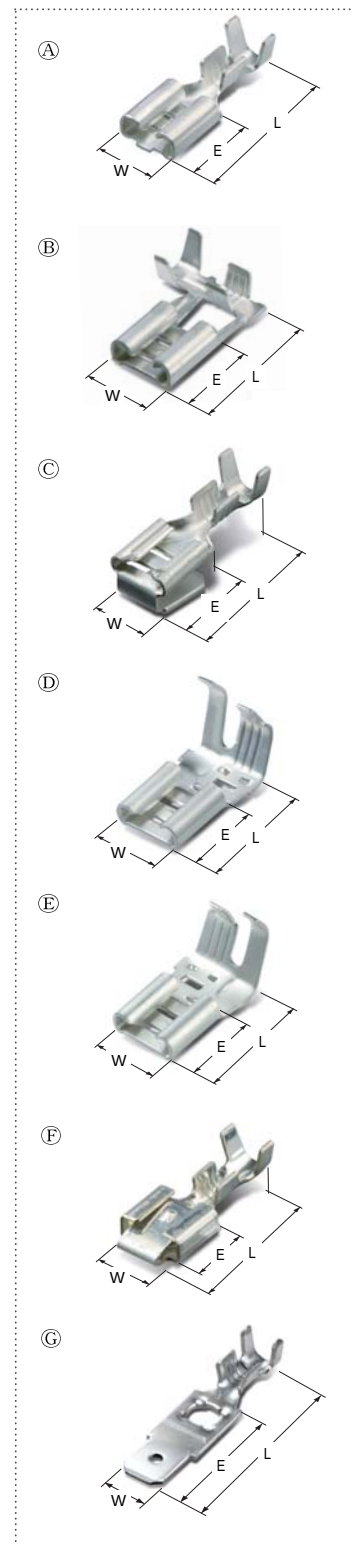
Poles	Plug housing for female terminal		Receptacle housing for male terminal	
4	MG 612947 Suitable Terminal : ⑧ 	MG 613360 	MG 633660-1 (R/H) 	
	MG 615009 	MG 615170 		
5	MG 613042-5 			
	MG 614706 	MG 633661-1 (R/H) 	MG 624831 (GWIT) 	MG 634832-1 (R/H) 
7	MG 615163 	MG 635164-1 (R/H) 	MG 615561-2 	
10	MG 613683 			

[(H) Height Removed Rib:9.1(mm)]

250 CONNECTOR



TAB	A	B	C	D
250	6.35	4.3~4.7	8.0	0.8



TERMINAL

Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
⊗ ST 730173-1	22-18	0.3-0.75	0.8	0.4	Brass	19.5	7.8	7.6	Ⓐ
⊗ ST 730173-2					Brass/Tin				
⊗ ST 730057-1	18-14	0.75-2.27	0.8	0.4	Brass	19.5	7.8	7.6	
⊗ ST 730057-2					Brass/Tin				
⊗ ST 730057-6									
⊗ ST 730135-1	18-14	0.75-2.27	0.8	0.45	Brass	19.5	7.8	7.6	
⊗ ST 730135-2					Brass/Tin				
⊗ ST 730135-3					Pre-Tin				
⊗ ST 730428-1	18-14	0.75-2.27	0.8	0.45	Brass	19.2	7.7	7.6	
⊗ ST 730428-2					Brass/Tin				
⊗ ST 730058-1	14-10	2.0-5.27	0.8	0.4	Brass	19.5	7.8	7.6	
⊗ ST 730058-2					Brass/Tin				
⊗ ST 730136-1	14-10	2.0-5.27	0.8	0.45	Brass	19.5	7.8	7.6	
⊗ ST 730136-2					Brass/Tin				
⊗ ST 730136-3					Pre-Tin				
○ ST 730435-1	#20+20 or 18+22 #18+20 or 18+18 #16+22 or 16+20		0.8	0.45	Brass	19.5	7.8	7.6	
○ ST 730435-2					Brass/Tin				
○ ST 730449-1	U.L 1015 #22×2 #20+18 or 20+20 U.L 1015 #18 +U.L 1007 #16		0.8	0.45	Brass	19.5	7.8	7.6	
○ ST 730449-2					Brass/Tin				
⊗ ST 730119-1	18-14	0.75-2.27	0.8	0.4	Brass	17.0	7.6	7.6	Ⓑ
⊗ ST 730119-2					Brass/Tin				
⊠ ST 730190-1	18-12	0.75-3.45	0.8	0.45	Brass	16.0	7.8	8.1	Ⓓ
⊠ ST 730190-2					Brass/Tin				
■ ST 730851-2									
○ ST 730436-1	#20+20 or 18+22 #18+20 or 18+18 #16+22 or 16+20		0.8	0.45	Brass	16.0	7.8	8.1	Ⓓ
○ ST 730436-2					Brass/Tin				
⊗ ST 730306-1	18-14	0.75-2.27	0.8	0.4	Brass	19.2	7.8	7.6	Ⓒ
⊗ ST 730306-2					Brass/Tin				
ST 741080-3	18-14	0.75-2.27	0.8	0.45	Brass Brass/Tin	19.2	7.8	7.6	Ⓖ
◇ ST 730188-1	18-14	0.75-2.27	0.8	0.4	Brass	20.4	6.5	7.85	
ST 730188-2					Pre-Tin				

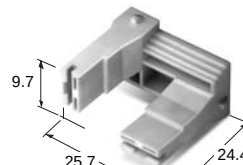
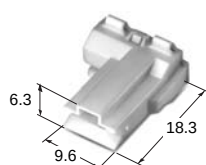
HOUSING

Plug housing for female terminal

MG 634833S

MG 634155

MG 634746-1(R/H)



Suitable Terminal : ST730190

Suitable Terminal : ST730135, ST730136

250 CONNECTOR

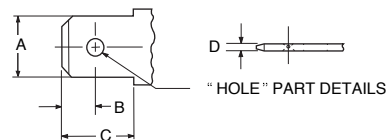


250 HEAT RESISTANT TERMINAL(250°C)

Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST731325-N	20-16	2.3-2.85	0.8	0.4	SPCC Nickel	14.4	7.8	7.5	

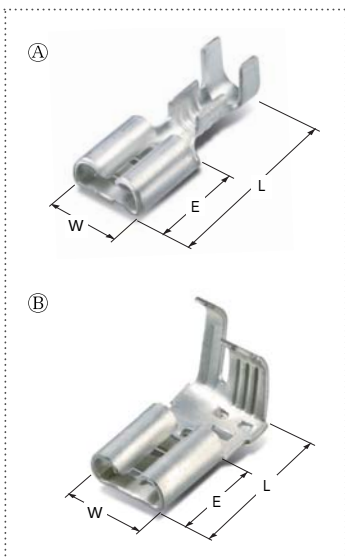
250 HOUSING

Poles	Plug housing for female terminal		Poles	Plug housing for female terminal	
1	MG 614933-5(Material:PPS)	MG 634934-5(Material:PPS)	2	MG 635689	
				 Suitable Pitch : 5.0mm	
3	MG 615390S-1(GWIT)	MG 635391-2(R/H)	5	MG 615193S-5(GWIT)	MG 635194(R/H)
	 MG 615390-2(GWIT)	 		 MG 615193(GWIT)	



TAB	A	B	C	D
205	5.2	3.18	6.35	0.5 0.8

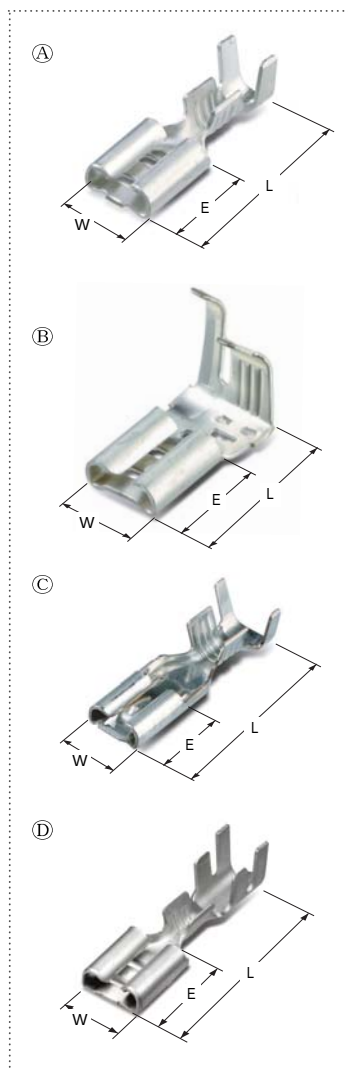
205 TERMINAL



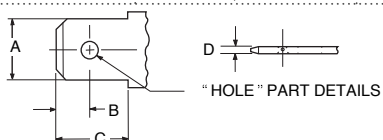
Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST730139-1	26-22	0.12-0.35	0.5	0.4	Brass	15.4	6.3	6.35	Ⓐ
ST730139-2					Brass/Tin				
ST730019-1	22-18	0.3-0.89	0.5	0.4	Brass	15.4	6.3	6.35	
ST730019-2					Brass/Tin				
ST730019-4			0.8	0.4	Brass	15.4	6.3	6.35	
ST730019-5					Brass/Tin				
ST730351-1	U.L 1015 WIRE #20+20 or 18+20 #18+18 or 18+22 #16+22 or 16+20		0.5	0.4	Brass	19.5	6.3	6.35	
ST730351-2					Brass/Tin				
ST730351-4			0.8	0.4	Brass	19.5	6.3	6.35	
ST730351-5					Brass/Tin				
ST730221-1	20-14	0.5-2.27	0.5	0.35	Brass	12.2	6.4	6.4	Ⓑ
ST730221-2					Brass/Tin				
ST730221-4			0.8	0.35	Brass	12.2	6.4	6.4	
ST730221-5					Brass/Tin				

187 CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type		
	AWG	mm ²		Thick.	Finish	L	€	W			
⦿ST 730147-1	26-22	0.12-0.35	0.5	0.35	Brass	15.4	6.3	5.8	Ⓐ		
⦿ST 730147-2					Brass/Tin						
⦿ST 730093-1	22-18	0.3-0.89	1.2	0.4	Brass	15.4	6.3	5.8			
⦿ST 730093-2					Brass/Tin						
⦿ST 730245-1	20-16	0.5-1.25	0.5	0.35	Brass	15.4	6.3	5.8			
⦿ST 730245-2					Brass/Tin						
⦿ST 730245-4			0.8	0.35	Brass	15.4	6.3	5.8			
⦿ST 730245-5					Brass/Tin						
⦿ST 730191-1	U.L 1015 WIRE #20+20 or 18+22 #18+18 or 18+20 #16+22 or 16+20		0.5	0.4	Brass	19.5	6.3	5.8			
⦿ST 730191-2					Brass/Tin						
⦿ST 730191-4			0.8	0.4	Brass	19.5	6.3	5.8			
⦿ST 730191-5					Brass/Tin						
ST 730724-1					1.0	0.35	Brass	15.4		6.3	5.8
ST 730724-2	Brass/Tin										
⦿ST 730220-1	20-16	0.5-1.42	0.5	0.35	Brass	12.2	6.4	5.6	Ⓑ		
⦿ST 730220-2					Brass/Tin						
⦿ST 730220-4			0.8	0.35	Brass	12.2	6.4	5.6			
⦿ST 730220-5					Brass/Tin						
ST 731017-6	22-20	0.3-0.56	0.5	0.35	Brass	12.2	6.4	5.6			
○ST 730451-1	18+18	0.89+0.89			Brass						
○ST 730451-2					Brass/Tin						
ST 730494-3	20-16	0.5-1.25	0.5	0.3	Brass Pre-Tin	18.0	6.0	5.7	Ⓒ		
ST 730526-3	18+18	0.89+0.89	0.5	0.3	Brass Pre-Tin	18.0	6.0	5.7			
■ST 731235-2	20-18	0.5-0.85	0.5	0.35	Brass Pre-Tin	18.4	6.3	5.9	Ⓓ		
■ST 731236-2	20+20 18+18	1.0-1.5	0.5	0.3	Brass Pre-Tin	18.4	6.3	5.9			



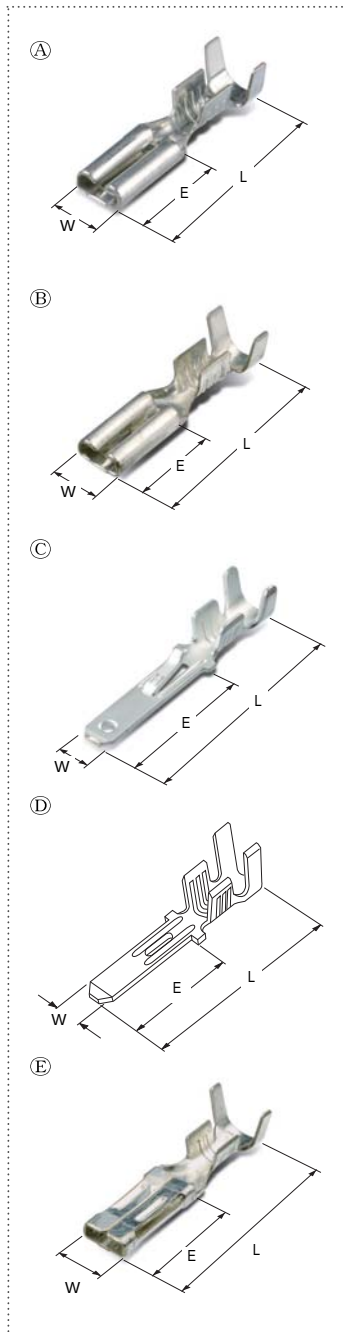
TAB	A	B	C	D
187	4.75	3.18	6.35	0.5

HOUSING

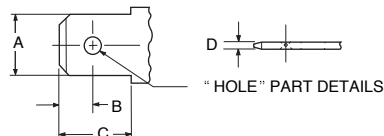
2	MG 610455(V2) MG 610455R(V0)	MG 615012	MG 635013-1(R/H)
	Suitable Terminal : ST730245, ST730191		Suitable Terminal : ST731235, ST731236
3	MG 611191(V2) MG 611191P(GWIT)	MG 610439(V0) MG 610439P(GWIT)	
	Suitable Terminal : ST730245, ST730191		Suitable Terminal : ST730494, ST730526

110 CONNECTOR

TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type	
	AWG	mm ²		Thick.	Finish	L	€	W		
⊗ ST730128-1 ST730128-3	28-24	0.08-0.22	0.5	0.25	Brass Pre-Tin	15.4	6.3	3.8	Ⓐ	
⊗ ST730012-1 ■ ST730012-3	24-20	0.2-0.56	0.5	0.25	Brass Pre-Tin	15.4	6.3	3.8		
⊗ ST730052-1 ■ ST730052-3	20-16	0.5-1.4	0.5	0.25	Brass Pre-Tin	15.4	6.3	3.8		
○ ST730052-4 ○ ST730052-6			0.8	0.25	Brass Pre-Tin	15.4	6.3	3.8		
ST731019-3			20-16	0.5-1.4	0.5	0.25	Brass Pre-Tin	15.4		6.3
ST731032-3	26-22	0.13-0.3	0.5	0.25	Brass Pre-Tin	17.0	6.3	3.8		
⬢ ST730099-1 ■ ST730099-3	20-16	0.51-1.42	0.5	0.25	Brass Pre-Tin	15.4	6.3	3.8		Ⓑ
ST731031-3	26-22	0.13-0.3	0.5	0.25	Brass Pre-Tin	15.4	6.3	3.8		
⬢ ST740144-1 ⬢ ST740144-2	22-18	0.3-0.85	0.5	0.5	Brass Brass/Tin	20.6	12.0	2.8	Ⓒ	
◇ ST740358-1 ◇ ST740358-2	22-18	0.3-0.85	0.5	0.5	Brass Brass/Tin	20.6	12.0	2.8	Ⓓ	
ST730912-3	24-20	0.22	0.5	0.25	Pre-Tin	15.2	7.5	3.8	Ⓔ	
ST730629-3	18-16	0.5	0.5	0.25	Pre-Tin	15.2	7.5	3.8		
ST730908-3	18-16	0.5	0.5	0.25	Pre-Tin	15.23	7.5	3.8		

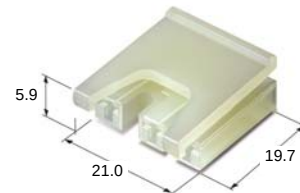


TAB	A	B	C	D
110	2.79	1.3-1.8	7.11	0.5 0.8

HOUSING

Plug housing for female terminal

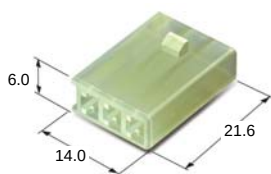
MG610815R(V0)



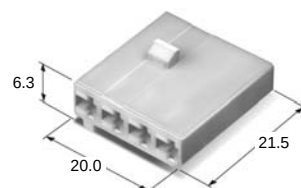
Suitable Terminal :
ST730629, ST730908, ST730912

DOOR S/W

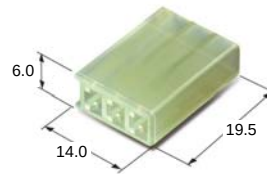
MG610421(V2)



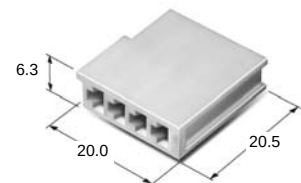
MG610420(V0)
MG610565(V0)



MG610087(V2)



MG610593(V0)
MG610593T(GWIT)



Suitable Terminal: A Type

Suitable Terminal: MG610420 B Type
MG610565 A Type

Suitable Terminal: B Type

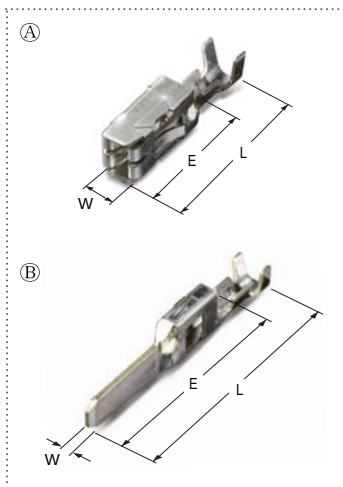
Suitable Terminal : B Type

110 WP CONNECTOR

- **HIGH CONTACT RELIABILITY FOR ALTERNATING MOTION**
High contact reliability against vibration & alternating motion.
- **WATER PROOF SYSTEM**
This connector provides water-proof feature inside & outside with inner seal and O-ring.
- **SECONDARY RETAINER**
The secondary retainers are preventing from partial insertion or accidental release of the contact.
Double lock structure for reliable terminal insertion



TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST731371-3	24-22	0.22-0.34	0.6	0.25	Copper Alloy/Pre-Tin	13.8	7.5	3.0	A
ST731372-3	24+24 22+22	0.22+0.22 0.34+0.34	0.6	0.25	Copper Alloy/Pre-Tin	13.8	7.5	3.0	
ST741343-3	24-22	0.22-0.34	0.6	0.30	Brass / Pre-Tin	22.9	16.1	0.6	B



HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal	Rear Holder
	MG 615559	MG 625430	MG 635611-1
7			

Ø2.0 & Ø1.3 CONNECTOR

PRODUCTS AND APPLICATION

These products easily adapt terminals and housings and can be used in both single and multiple connectors. Since internal connections of electrical appliances are becoming increasingly sophisticated, connectors are becoming smaller and lighter yet maintaining higher reliabilities.



Recognized
File No. E 101181



Certified
File No. LR 61076



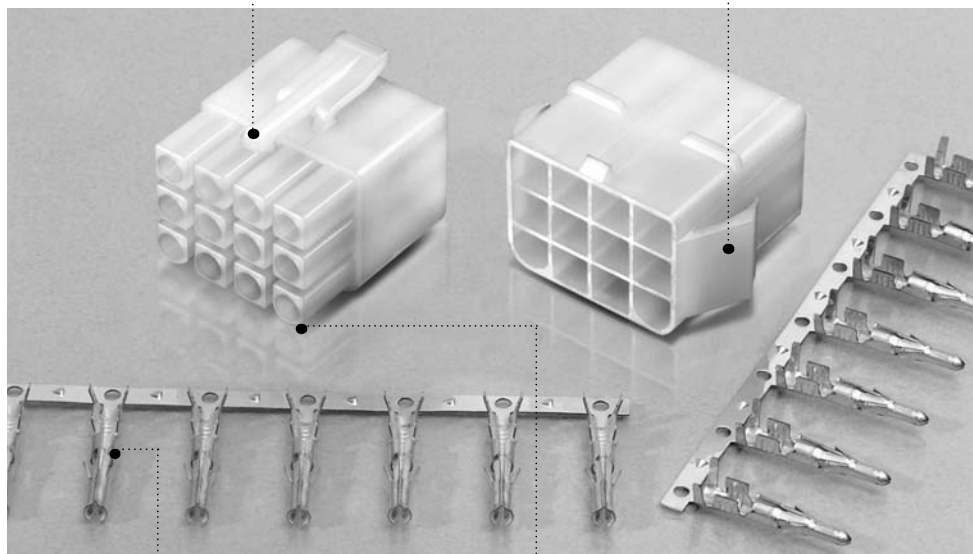
TÜV Licensed
File No. R 9154197(Ø1.3)
File No. R 9154199(Ø2.0)
(Conforms to DIN/VDE 0627)

Ø 2.0 & Ø 1.3

FEATURES

- Positive locking to keep the mated connectors together features a latch that automatically engages at matings. Can be easily released for disengagement.

- Male connector accommodates panel mounting, suits wide range of panel thicknesses. Housing locking ears allow easy insertion to and removal from panel by hand, no tools are required.



- Terminal lock into housing by a pair of lances, that insures balanced mating, stable and firm positioning.

- Long creeping distance on housing guaranties safe handling at rated voltages.

Ø2.0 & Ø1.3 CONNECTOR

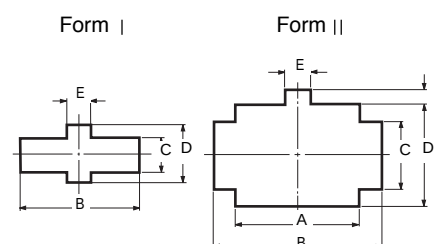
PANEL HOLE DIMENSIONS

Panel hole dimensions are different according to number of circuits and type of housing.
Punch hole per drawing is as below, not leaving any burr.

HOUSING FOR Ø2.0 PIN TERMINAL

Applicable panel thickness: 0.8~2.0mm

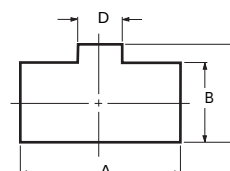
Poles	Housing Part No.	Applicable hole form	Panel hole dimensions(mm) Tolerance ± 0.13					
			A	B	C	D	E	F
2	MG 620007	I		18.8	7.8	11.0	3.7	
3	MG 620009	I		25.0	7.8	11.0	3.7	
4	MG 620011	I		31.2	7.8	11.0	3.7	
4	MG 620013	II	13.8	18.8	9.4	14.1	4.0	1.6
6	MG 620015	II	20.0	25.0	9.4	14.1	4.0	1.6
9	MG 620017	II	20.0	25.0	9.4	20.3	4.0	1.6
12	MG 620019	II	26.2	31.2	12.8	20.3	4.0	1.6
15	MG 620021	II	32.4	37.4	12.8	20.3	4.0	1.6



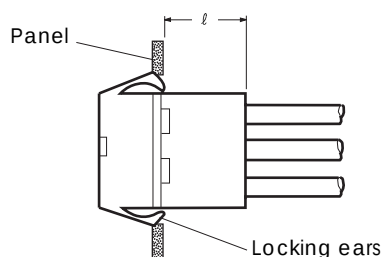
HOUSING FOR Ø1.3 PIN TERMINAL

Applicable panel thickness: 0.8~2.4mm

Poles	Housing Part No.	Panel hole dimensions(mm) Tolerance ± 0.13			
		A	B	C	D
2	MG 620023	15.0	6.0	6.85	5.2
3	MG 620025	19.7	6.0	6.85	5.2
4	MG 620027	24.2	6.0	6.85	5.2
6	MG 620029	19.7	10.2	11.1	5.2
9	MG 620031	19.7	14.8	15.7	5.2
12	MG 620033	24.2	14.8	15.7	5.2
15	MG 620035	28.7	14.8	15.7	5.2



PANEL MOUNTING

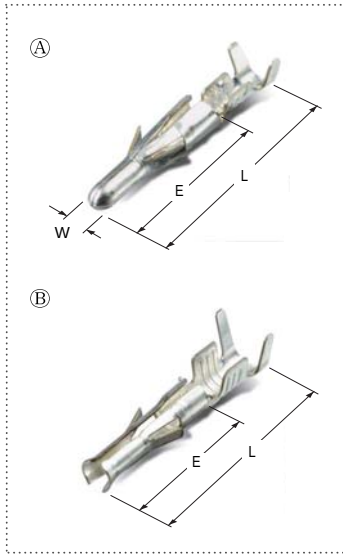


APPLICATION	"l" (mm)
Housing For Ø2.0 Pin Term	14.5
Housing For Ø1.3 Pin Term	11.0

For Panel mounting, insert receptacle straight through mounting hole until both locking ears snap against the sides of the panel hole as shown.

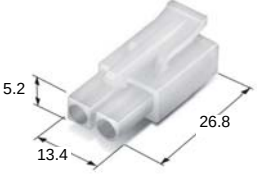
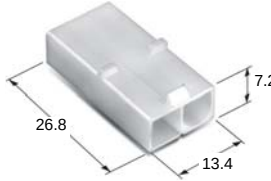
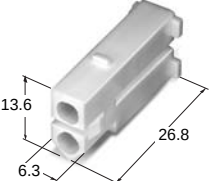
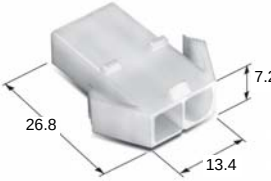
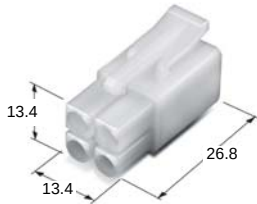
Ø2.0 CONNECTOR

TERMINAL



Part No.	Description	Wire Range AWG(mm ²)	Material		Dimension(mm)			Type
			Thick.	Finish	L	E	W	
△ ST 750207-3	2.0 Pin Small Wire	24-20 (0.2-0.5)	0.25	Brass Pre-Tin	20.3	12.6	2.0	A
△ ST 750208-3	2.0 Pin Heavy Wire	18-14 (0.75-2.0)	0.25	Brass Pre-Tin	20.3	12.6	2.0	
△ ST 750330-3	2.0 Pin 2 Wire	20+20 20+18 20+16 18+18	0.25	Brass Pre-Tin	20.3	12.6	2.0	
△ ST 730205-3	2.0 Rec. Small Wire	24-20 (0.2-0.5)	0.25	Brass Pre-Tin	20.3	12.6		B
△ ST 730206-3	2.0 Rec. Heavy Wire	18-14 (0.75-2.0)	0.25	Brass Pre-Tin	20.3	12.6		
○ ST 730349-3	2.0 Rec. for Multi		0.25	Brass Pre-Tin	20.3	12.6		
△ ST 730329-3	2.0 Rec. 2 Wire	20+20 20+18 20+16 18+18	0.25	Brass Pre-Tin	20.3	12.6		

HOUSING

Poles	Voltage rating	Current rating	Plug housing for female terminal	Receptacle housing for male terminal
2	300	15	△ MG 610008(V2) MG 610008R(V0) 	△ MG 620006(V2) MG 620006R(V0) 
			MG 614501 	△ MG 620007 
3	300	14	△ MG 610010 	△ MG 620009 
4	300	13	△ MG 610014 	△ MG 620013 

Ø 2.0

Ø2.0 CONNECTOR

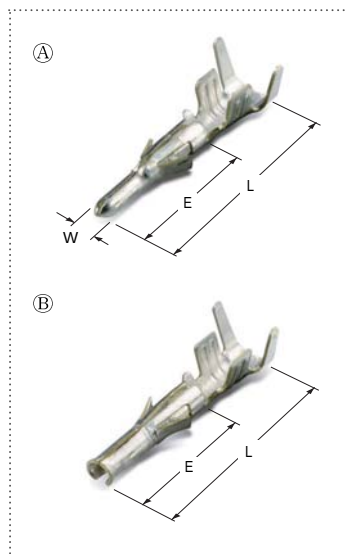
HOUSING

Poles	Voltage rating	Current rating	Plug housing for female terminal	Receptacle housing for male terminal
4	300	13	▲ MG 610012 	▲ MG 620011
6	300	12	▲ MG 610016 	▲ MG 620015
9	300	10	▲ MG 610018 	▲ MG 620017
12	300	9	▲ MG 610020 	▲ MG 620019
			⊙ MG 610082 	⊙ MG 620081
15	300	9	▲ MG 610022 	▲ MG 620021

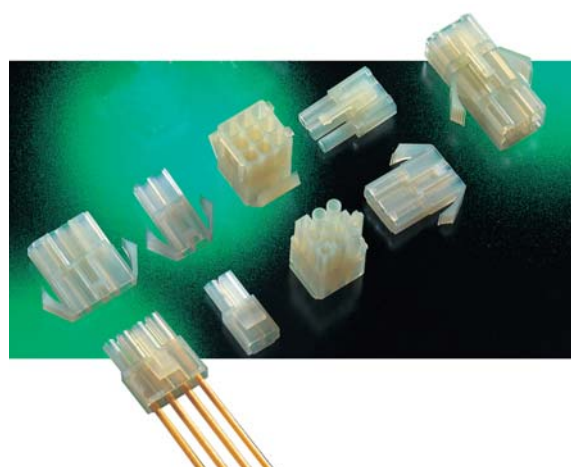
Note : Housing for Ø2.0 Pin Term, can be used either panel mounting or free hanging.
For panel mounting hole refer to page 000. U.L. approval is not available for P/N MG 610082 & MG 620081

Ø1.3 CONNECTOR

TERMINAL

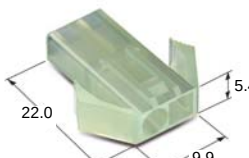
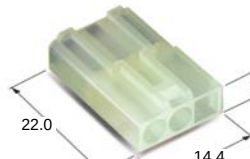
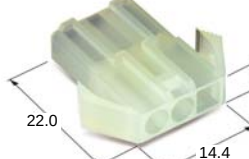
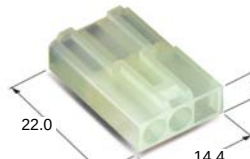
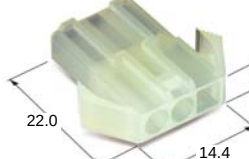
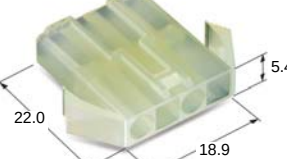
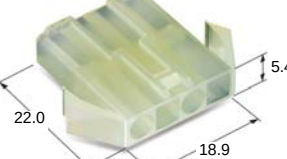


Part No.	Description	Wire Range AWG(mm ²)	Material		Dimension(mm)			Type
			Thick.	Finish	L	E	W	
ST 750293-3	Ø 1.3 Pin Small Wire	26-22 (0.13-0.3)	0.25	Brass Pre-Tin	15.3	9.0	1.3	A
ST 750294-3	Ø 1.3 Pin Heavy Wire	20-16 (0.5-1.25)	0.25	Brass Pre-Tin	15.3	9.0	1.3	
ST 730291-3	Ø 1.3 Rec. Small Wire	26-22 (0.13-0.3)	0.25	Brass Pre-Tin	15.3	9.0		B
ST 730292-3	Ø 1.3 Rec. Heavy Wire	20-16 (0.5-1.25)	0.25	Brass Pre-Tin	15.3	9.0		



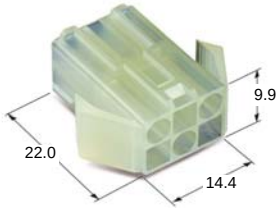
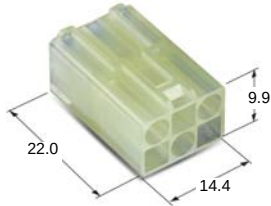
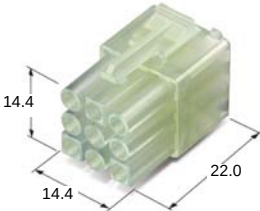
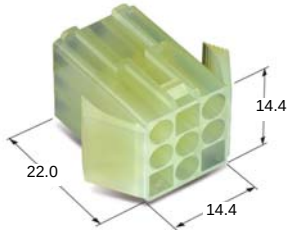
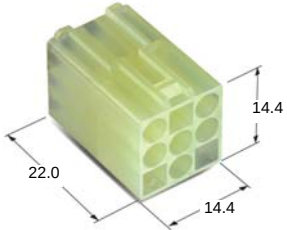
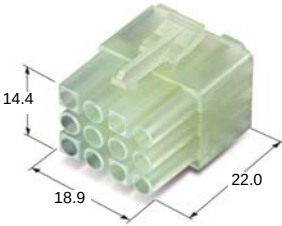
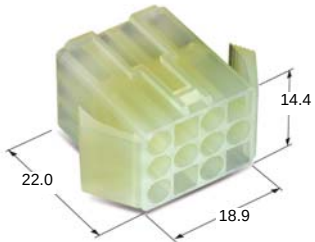
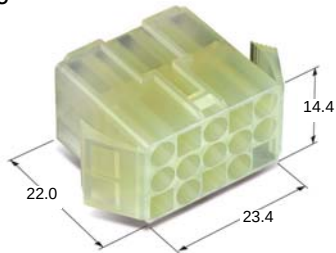
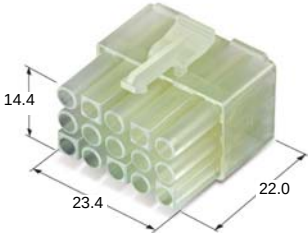
- ▶Maximum effectiveness in application of relay & panel type connectors for home appliances and effectiveness in circuit construction and housing capacity with double crimping.
- ▶Wide-range in environmental applications and also economical.
- ▶Application: microwave oven, laundry machine, refrigerator, boiler.

HOUSING

Poles	Voltage rating	Current rating	Plug housing for female terminal	Receptacle housing for male terminal	
2	300	10	MG 610024(V2) MG 610024R(V0) 	MG 620440(V2) MG 620440R(V0) 	MG 620023(V2) MG 620023R(V0) 
			MG 610026 	MG 623377 	MG 620025 
3	300	10	MG 610026 	MG 623377 	MG 620025 
			MG 610028 	MG 620052 	MG 620027 
4	300	10	MG 610028 	MG 620052 	MG 620027 

Ø1.3 CONNECTOR

HOUSING

Poles	Voltage rating	Current rating	Plug housing for female terminal	Receptacle housing for male terminal
6	300	8	Ⓞ MG 610030 	Ⓞ MG 620029 
				○ MG 621282 
9	300	6	Ⓞ MG 610032 	Ⓞ MG 620031 
				○ MG 620201 
12	300	6	Ⓞ MG 610034 	Ⓞ MG 620033 
				Ⓞ MG 620035 
15	300	6	Ⓞ MG 610036 	

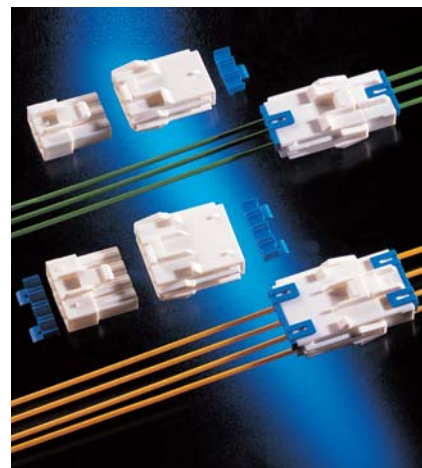
Note : Housing for Ø1.3 Pin Term, of any circuit can be used either panel mounting or free hanging.
For panel mounting hole refer to page 000. The receptacle housings without wing are not listed on U.L. yet.

3220 CONNECTOR

PRODUCTS AND APPLICATION

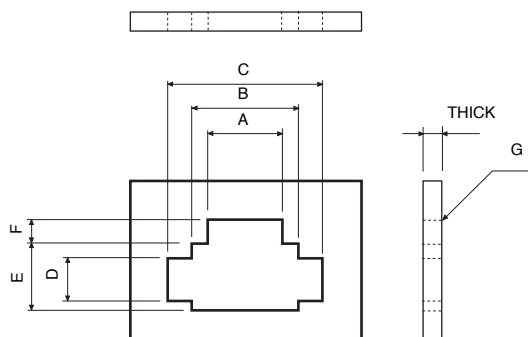
- ▶ Connector for high voltage application with its large contact area.
- ▶ Employed rear holder to prevent terminals from incomplete locking.
- ▶ With minimum exposure, it protects wings from damage.
- ▶ Application : Compressor in air conditioner, motor part in Industrial refrigerator.

Current Rating	20A AC. DC	
Voltage Rating	600V AC/DC	
Temperature Range	-40℃~ +105℃	
Contact Resistance	3mΩ Max (Initial Value)	
	6mΩ Max (Initial Value)	
Insulation Resistance	1,000MΩ Min	
Dielectric Strength	AC 2,500(V / MIN. Initial Value)	
Wire Size	AWG #22-#12(0.5mm²~3.5mm²)	
Material	HS'G	PBT 94V-0 PET+PC GWIT
	R/H	PBT 94V-0
	TM'L	TAB: Brass Pre -Tin REC. : Phos.Bronze Pre -Tin



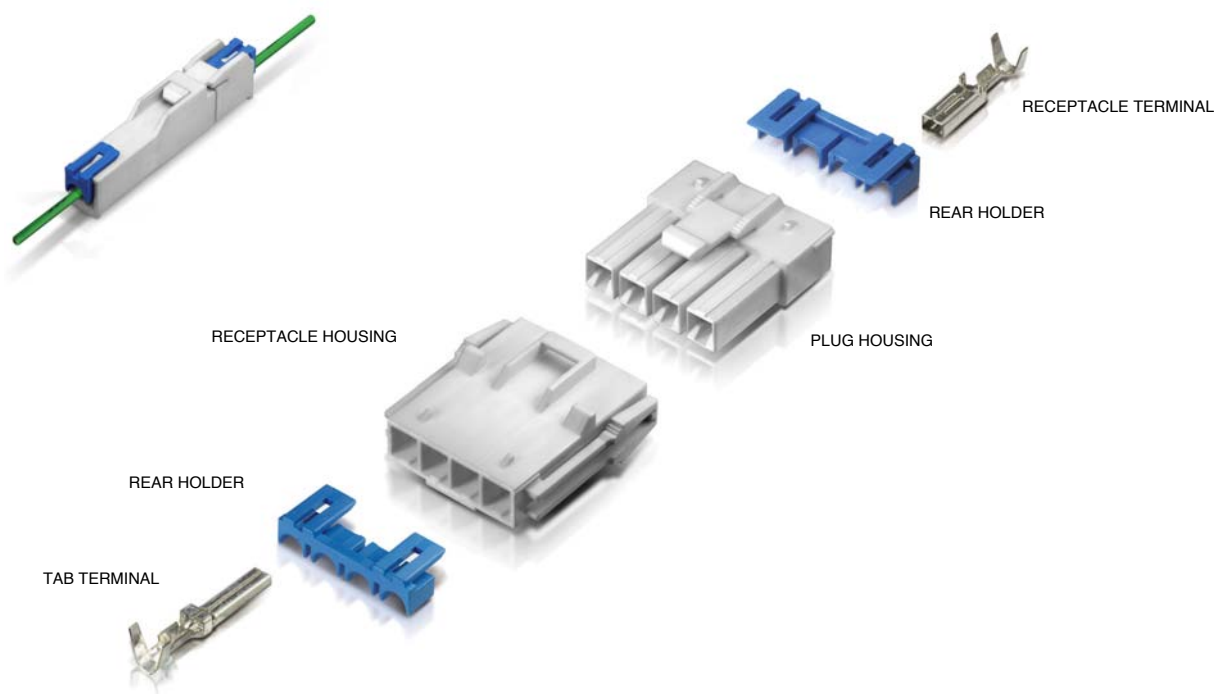
PANEL HOLE DIMENSIONS

Poles	Part Number	Material	Panel hole dimensions(mm) Tolerance ±0.10							
			THICK	A	B	C	D	E	F	G
2	MG 620874 MG 620874P	Plastic	0.8-1.7	10.0	13.9	20.5	5.5	8.7	3.0	0.2-0.3
			1.8-2.4				6.5			
		Steel	0.8-1.7				6.3			
			1.8-2.4				6.5			
3	MG 620877P	Plastic	0.8-1.7	10.0	20.1	26.7	5.5	8.7	3.0	0.2-0.3
			1.8-2.4				6.5			
		Steel	0.8-1.7				6.3			
			1.8-2.4				6.5			
4	MG 620980	Plastic	0.8-1.7	22.4	26.3	32.9	5.5	8.7	3.0	0.2-0.3
			1.8-2.4				6.5			
		Steel	0.8-1.7				6.3			
			1.8-2.4				6.5			
6	MG 620994	-	1.8-2.4	10.1	20.1	26.7	6.7	15.7	3.0	0.2-0.3

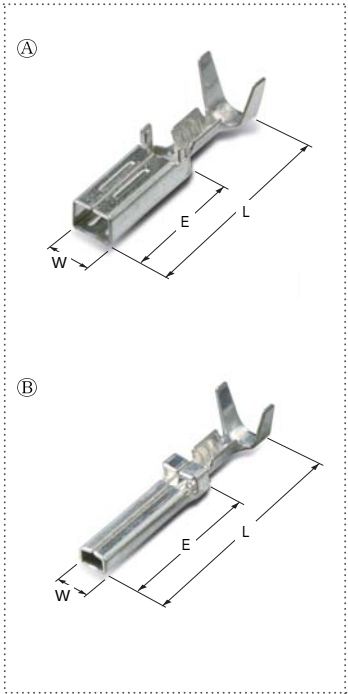


3220 CONNECTOR

- These connectors are used in industrial equipments and home appliances such as microwave ovens, laundry machines and refrigerators.
- They are suitable for connecting mid and high current carrying circuits, and are available both in relay models and panel-mounting models.
- Rear holders are fitted to structures to prevent incomplete terminal locking or non-insertion.
- Terminals are designed as a box-type structures to improve contact and electrical reliability.
- The Push-Pull Locking structure prevents arm-locking in housing locking types.



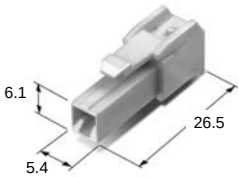
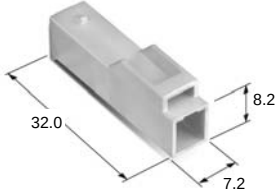
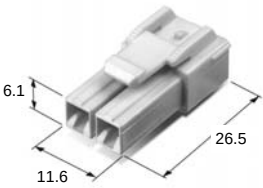
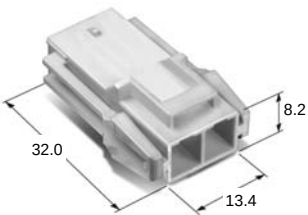
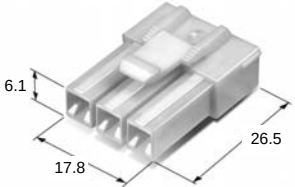
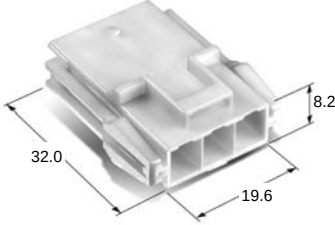
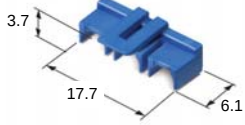
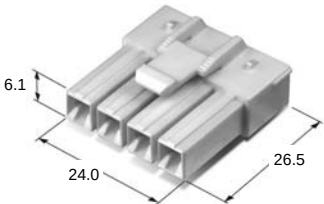
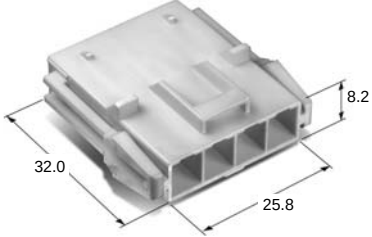
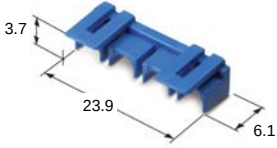
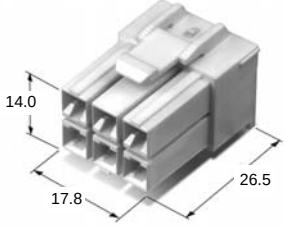
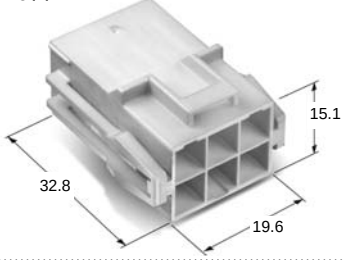
TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
■ ST 730641-3	22-18	0.3-0.75	2.0	0.25	Phos.Bronze/ Pre-Tin	19.4	8.5	4.1	Ⓐ
■ ST 730638-3	16-14	1.25-2.0	2.0	0.25	Phos.Bronze/ Pre-Tin	19.4	8.5	4.1	
■ ST 730639-3	12	3.5	2.0	0.25	Phos.Bronze/ Pre-Tin	19.4	8.5	4.1	
■ ST 730681-3	20+20 20+18 20+16 18+18	0.5+0.5 0.5+0.75 0.75+1.25 0.75+0.75	2.0	0.25	Phos.Bronze/ Pre-Tin	19.4	8.5	4.1	Ⓑ
■ ST 740637-3	22-18	0.3-0.75	2.0	0.3	Brass Pre-Tin	23.2	11.0	3.2	
■ ST 740634-3	16-14	1.25-2.0	2.0	0.3	Brass Pre-Tin	23.2	11.0	3.2	
■ ST 740635-3	12	3.5	2.0	0.3	Brass Pre-Tin	23.2	11.0	3.2	
■ ST 740682-3	20+20 20+18 20+16 18+18	0.5+0.5 0.5+0.75 0.75+1.25 0.75+0.75	2.0	0.3	Brass Pre-Tin	23.2	11.0	3.2	

3220 CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal	Rear holder
1	MG 610981 	MG 620982 	MG 630989-2 
2	MG 610873P 	MG 620874P 	MG 630875-2 
3	MG 610876P 	MG 620877P 	MG 630878-2 
4	MG 610979 	MG 620980 	MG 630986-2 
6	MG 610993 	MG 620994 	MG 630878-2 

3220

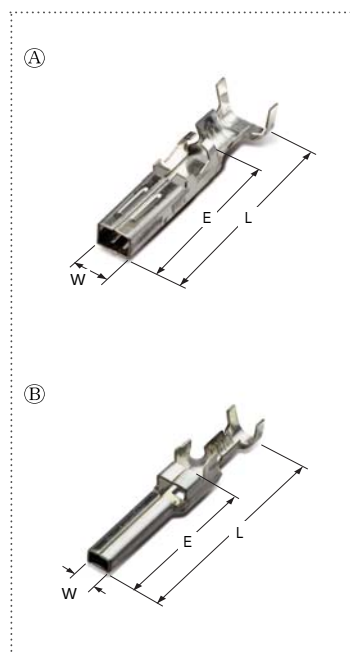
NEW 3220 CONNECTOR

PRODUCTS AND APPLICATION

Current Rating	15A	
Voltage Rating	600V AC/DC	
Temperature Range	-40℃~+105℃	
Contact Resistance	3mV/A Min. (Initial Value) 6mV/A Min. (After Environmental Testing)	
Insulation Resistance	1,000M Ω Min /100M Ω Min	
Dielectric Strength	AC 2,500(V / MIN. Initial Value)	
Wire Size	AWG #20-14/ #20+20/ #18+18	
Material	HS'G	PET+PC(GWIT)
	R / H	PA66(V0)
	TM'L	TAB: Brass/Pre -Tin REC. : Phos.Bronze/Pre -Tin



TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
■ ST731245-3	20-18	0.5-0.85	2.0	0.25	Phos.Bronze/Pre-Tin	19.4	8.5	4.1	A
■ ST731246-3	16-14	1.25-2.0	2.0	0.25	Phos.Bronze/Pre-Tin	19.4	8.5	4.1	
■ ST731247-3	20+20 18+18	0.5+0.5 0.85+0.85	2.0	0.25	Phos.Bronze/Pre-Tin	19.4	8.5	4.1	
■ ST741248-3	20-18	0.5-0.85	2.0	0.3	Brass / Pre-Tin	23.2	11.0	3.2	B
■ ST741249-3	16-14	1.25-2.0	2.0	0.3	Brass / Pre-Tin	23.2	11.0	3.2	
■ ST741250-3	20+20 18+18	0.5+0.5 0.85+0.85	2.0	0.3	Brass/Pre-Tin	23.2	11.0	3.2	

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal		Rear Holder
3	■ MG 615042	■ MG 625040	■ MG 625041	MG 635043-1

0709 MULTI CONNECTOR

PRODUCTS AND APPLICATION

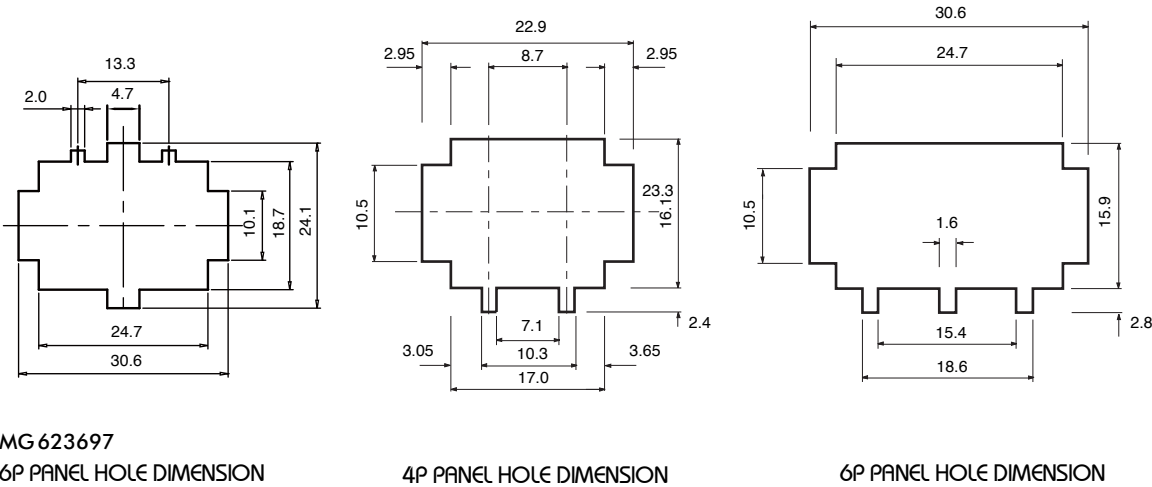
HOUSING	Material:PBT/PET+PC(GWIT)	
	Available in 3, 4, 6 circuits. Can be used either panel mounting or free hanging	
TERMINAL	Material	
	RECEPTACLE	COPPER ALLOY
	TAB	BRASS
	Available in two sizes for wire 0.2~2.0mm ² (AWG 24~14)	



Temperature Range	-40℃~+105℃
Current Rating	15A(Max)
Voltage Drop	3(mV / A)MAX.(Initial Value)
Insulation Resistance	1,000(M Ω) / DC500(V)
Dielectric Strength	AC 2,500(V / MIN. Initial Value)

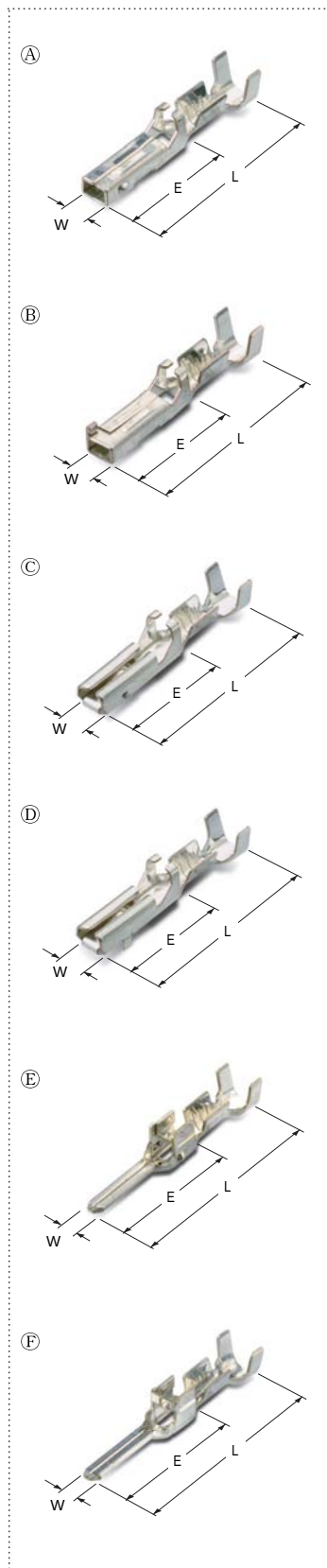
PANEL HOLE DIMENSIONS

Panel hole dimensions are different according to number of circuits and type of housing.
Punch hole per drawing is as below, not leaving any burr.



0709 MULTI CONNECTOR

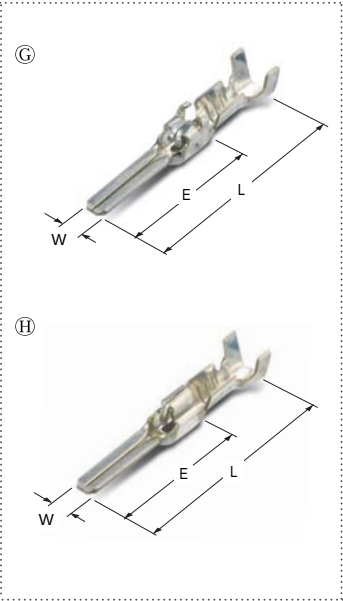
TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST 731291-3	24-22	0.2-0.3	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	A
▲ ST 730837-3	22-20	0.3-0.5	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	
▲ ST 730838-3	20-18	0.5-0.75	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	
▲ ST 730839-3	16-14	1.25-2.0	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	
▲ ST 730840-3	20+20~18+18	0.5+0.5~0.75+0.75	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	
ST 731292-3	24-22	0.2-0.3	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	B
▲ ST 730841-3	22-20	0.3-0.5	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	
▲ ST 730842-3	20-18	0.5-0.75	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	
▲ ST 730843-3	16-14	1.25-2.0	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	
▲ ST 730844-3	20+20~18+18	0.5+0.5~0.75+0.75	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	
ST 731293-3	24-22	0.2-0.3	0.6	0.25	Copper Alloy Pre-Tin	19.2	10.1	3.0	C
■ ST 730821-3	22-20	0.3-0.5	0.6	0.25	Copper Alloy Pre-Tin	19.2	10.1	3.0	
■ ST 730822-3	20-18	0.5-0.75	0.6	0.25	Copper Alloy Pre-Tin	19.2	10.1	3.0	
■ ST 730823-3	16-14	1.25-2.0	0.6	0.25	Copper Alloy Pre-Tin	19.2	10.1	3.0	
■ ST 730824-3	20+20~18+18	0.5+0.5~0.75+0.75	0.6	0.25	Copper Alloy Pre-Tin	19.2	10.1	3.0	
ST 731294-3	24-22	0.2-0.3	0.6	0.25	Copper Alloy Pre-Tin	19.2	10.1	3.0	D
▲ ST 730825-3	22-20	0.3-0.5	0.6	0.25	Copper Alloy Pre-Tin	19.2	10.1	3.0	
▲ ST 730826-3	20-18	0.5-0.75	0.6	0.25	Copper Alloy Pre-Tin	19.2	10.1	3.0	
▲ ST 730827-3	16-14	1.25-2.0	0.6	0.25	Copper Alloy Pre-Tin	19.2	10.1	3.0	
▲ ST 730828-3	20+20~18+18	0.5+0.5~0.75+0.75	0.6	0.25	Copper Alloy Pre-Tin	19.2	10.1	3.0	
ST 741295-3	24-22	0.2-0.3	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	E
▲ ST 740829-3	22-20	0.3-0.5	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	
▲ ST 740830-3	20-18	0.5-0.75	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	
▲ ST 740831-3	16-14	1.25-2.0	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	
▲ ST 740832-3	20+20~18+18	0.5+0.5~0.75+0.75	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	
ST 741296-3	24-22	0.2-0.3	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	F
▲ ST 740833-3	22-20	0.3-0.5	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	
▲ ST 740834-3	20-18	0.5-0.75	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	
▲ ST 740835-3	16-14	1.25-2.0	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	
▲ ST 740836-3	20+20~18+18	0.5+0.5~0.75+0.75	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	

0709 MULTI CONNECTOR

TERMINAL



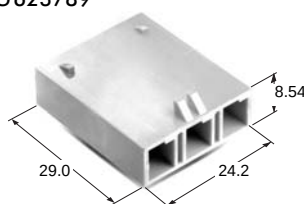
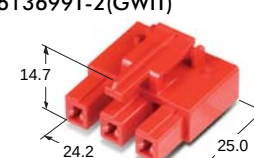
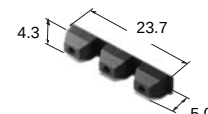
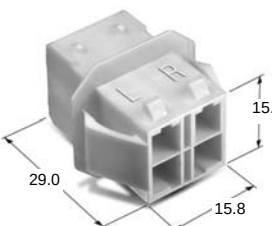
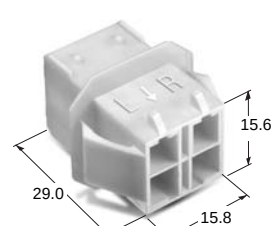
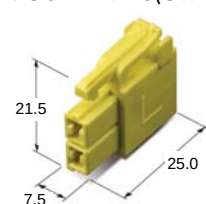
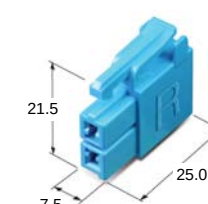
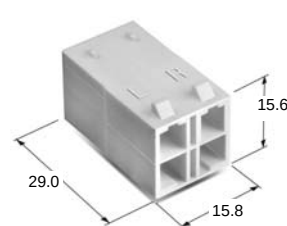
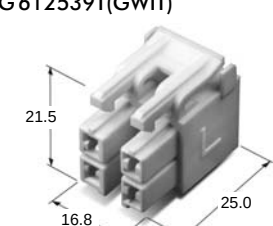
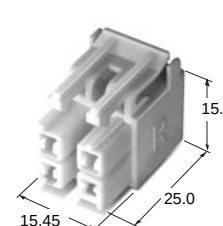
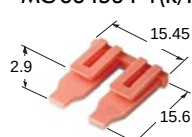
Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
ST741297-3	24-22	0.2-0.3	0.6	0.3	Brass Pre-Tin	22.6	13.5	2.3	G
ST740812-3	22-20	0.3-0.5	0.6	0.3	Brass Pre-Tin	22.6	13.5	2.3	
ST740813-3	20-18	0.5-0.75	0.6	0.3	Brass Pre-Tin	22.6	13.5	2.3	
ST740814-3	16-14	1.25-2.0	0.6	0.3	Brass Pre-Tin	22.6	13.5	2.3	
ST740815-3	20+20-18+18	0.5+0.5-0.75+0.75	0.6	0.3	Brass Pre-Tin	22.6	13.5	2.3	
ST741298-3	24-22	0.2-0.3	0.6	0.3	Brass Pre-Tin	22.6	13.5	2.3	H
ST740816-3	22-20	0.3-0.5	0.6	0.3	Brass Pre-Tin	22.6	13.5	2.3	
ST740817-3	20-18	0.5-0.75	0.6	0.3	Brass Pre-Tin	22.6	13.5	2.3	
ST740818-3	16-14	1.25-2.0	0.6	0.3	Brass Pre-Tin	22.6	13.5	2.3	
ST740819-3	20+20-18+18	0.5+0.5-0.75+0.75	0.6	0.3	Brass Pre-Tin	22.6	13.5	2.3	

0709 MULTI

0709 MULTI CONNECTOR

- ▶ General connector designed stably for mid voltage parts.
- ▶ Panel mounting type.
- ▶ Multi type connector convenient for main assembling and controlling.
- ▶ Preventing false connection with variable-shape terminals.
- ▶ Double lock structure for reliable terminal insertion.
- ▶ Suitable for freezing, cold storage or machine room.

HOUSING

Poles	Receptacle housing for male terminal		Plug housing for female terminal																															
3	MG 623789 	MG 684552(SEAL) 	MG 613699T-1(GWIT) MG 613699T-2(GWIT) 	MG 684552(SEAL) 																														
	MG 631230(R/H) 	MG 633990-5(R/H) 	MG 631230(R/H) 	MG 633990-5(R/H) 																														
	Suitable Terminal : ST 740829, ST 740830, ST 740831		Suitable Terminal : ST 730841, ST 730842																															
4	MG 621223 	MG 621223DT(GWIT) MG 621223D 	MG 611227-3(V0) MG 611227T-3(GWIT) 	MG 611226-2(V0) MG 611226T-2(GWIT) 																														
	MG 622536 		MG 631228-2, 5(R/H) 	<table border="1"><thead><tr><th>HOLE NO.</th><th colspan="4">APPLICATION TERMINAL TYPE</th></tr><tr><th></th><th>L</th><th>M</th><th>R</th><th>II</th></tr></thead><tbody><tr><td>1</td><td>Ⓓ</td><td>Ⓑ</td><td>Ⓐ</td><td>Ⓒ</td></tr><tr><td>2</td><td></td><td></td><td></td><td></td></tr></tbody></table>	HOLE NO.	APPLICATION TERMINAL TYPE					L	M	R	II	1	Ⓓ	Ⓑ	Ⓐ	Ⓒ	2														
	HOLE NO.	APPLICATION TERMINAL TYPE																																
	L	M	R	II																														
1	Ⓓ	Ⓑ	Ⓐ	Ⓒ																														
2																																		
MG 631229-2, 5(R/H) 	<table border="1"><thead><tr><th>HOLE NO.</th><th colspan="4">APPLICATION TERMINAL TYPE</th></tr><tr><th></th><th>F</th><th>G</th><th>E</th><th>H</th></tr></thead><tbody><tr><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td></tr></tbody></table>	HOLE NO.	APPLICATION TERMINAL TYPE					F	G	E	H	1					2					3					4					MG 612539(V0) MG 612539T(GWIT) 	MG 614524T(GWIT) 	
HOLE NO.	APPLICATION TERMINAL TYPE																																	
	F	G	E	H																														
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		MG 631229-2, 5(R/H) 	<table border="1"><thead><tr><th>HOLE NO.</th><th colspan="4">APPLICATION TERMINAL TYPE</th></tr><tr><th></th><th>Ⓓ</th><th>Ⓐ</th><th>Ⓓ</th><th>Ⓐ</th></tr></thead><tbody><tr><td>1</td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td></tr></tbody></table>	HOLE NO.	APPLICATION TERMINAL TYPE					Ⓓ	Ⓐ	Ⓓ	Ⓐ	1					2					3					4					
HOLE NO.	APPLICATION TERMINAL TYPE																																	
	Ⓓ	Ⓐ	Ⓓ	Ⓐ																														
1																																		
2																																		
3																																		
4																																		
		MG 634534-1(R/H) 																																

0709 MULTI CONNECTOR

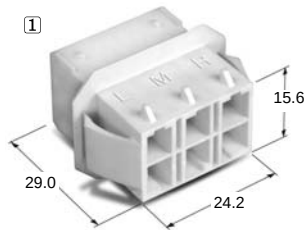
HOUSING

Poles

Receptacle housing for male terminal

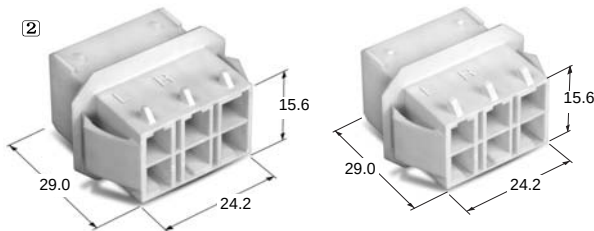
Plug housing for female terminal

▲ MG 621224

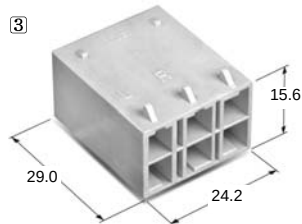


■ MG 622537T(GWIT)

MG 622537-D
MG 622537DT(GWIT)



■ MG 622538-4



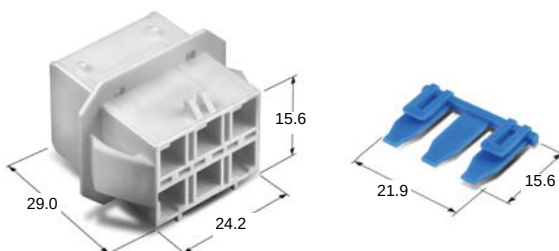
▲ MG 631230-2, 5(R/H)



HOLE NO.	APPLICATION TERMINAL TYPE
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2	④ ⑤ ⑥
3	⑦ ⑧ ⑨

MG 623697T(GWIT)

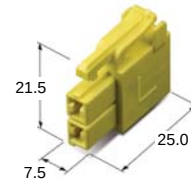
▲ MG 631230-2, 5(R/H)



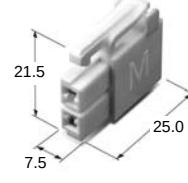
Suitable Terminal : ST 740829, ST 740830

▲ MG 611227-3

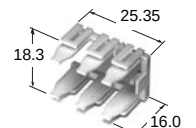
■ MG 611227T-3(GWIT)



▲ MG 611225

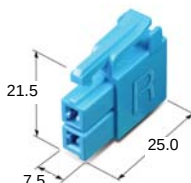


MG 635592(R/H)



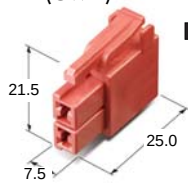
▲ MG 611226-2

■ MG 611226T-2(GWIT)



■ MG 612540-1

■ MG 612540T-1 (GWIT)



Suitable Housing :
MG 612539T(GWIT)
■ MG 612540T-1 (GWIT)

▲ MG 631228-2, 5(R/H)

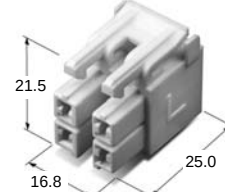


HOLE NO.	APPLICATION TERMINAL TYPE
1	① ② ③ ④
2	⑤ ⑥ ⑦ ⑧

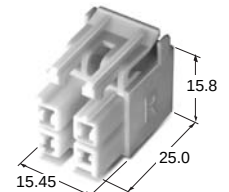
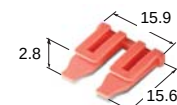
■ MG 612539

■ MG 612539T(GWIT)

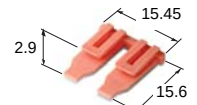
MG 614524T(GWIT)



MG 635178-1(R/H)



MG 634534-1(R/H)



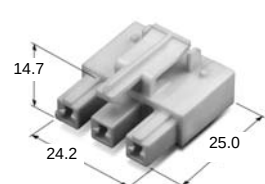
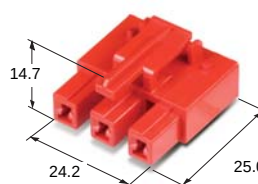
▲ MG 631229-2, 5(R/H)



HOLE NO.	APPLICATION TERMINAL TYPE
1	①
2	②
3	③
4	④

MG 613699T-1(GWIT)
MG 613699T-2(GWIT)

MG 613698T(GWIT)

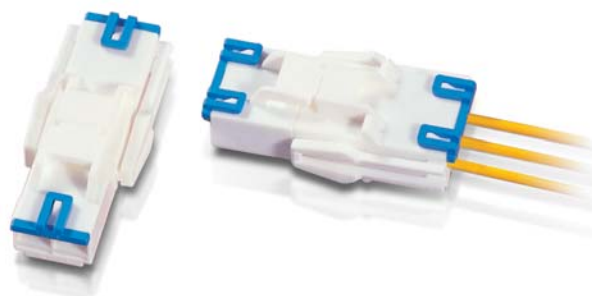


Suitable Terminal :
ST 730841, ST 730842

Suitable Terminal :
ST 730837, ST 730838

0709 MULTI

1806 D/L CONNECTOR



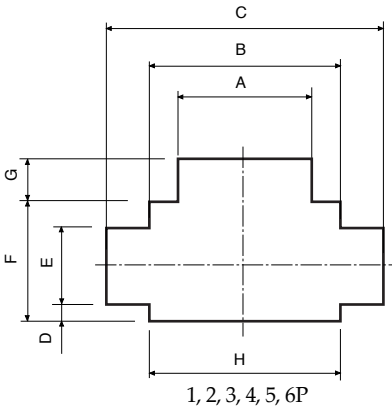
PANEL HOLE DIMENSIONS

Panel hole dimensions are different according to number of circuits and type of housing.
Punch hole per drawing is as below, not leaving any burr.

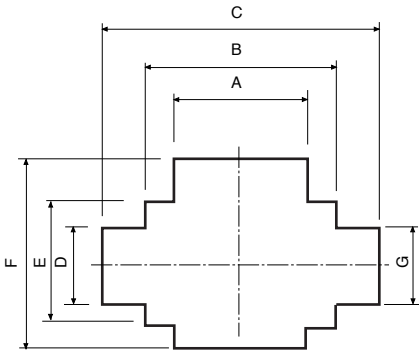
HOUSING FOR 1806 D/L TERMINAL

Applicable panel thickness:0.3~2.4mm

Poles	Part Number	Panel hole dimensions(mm) Tolerance ± 0.1							
		A	B	C	D	E	F	G	H
1	MG 621533	5.0	-	13.7	3.2	5.5	-	2.0	7.7
2	MG 621173	10.1	13.7	20.3	1.5	5.5	8.5	4.0	13.7
3	MG 621174	10.1	19.9	26.5	1.5	5.5	8.5	4.0	19.9
4	MG 621175	10.1	26.1	32.7	1.5	5.5	8.5	4.0	26.1
6	MG 621469	10.1	19.9	26.5	4.62	6.7	15.7	4.0	19.9



1, 2, 3, 4, 5, 6P



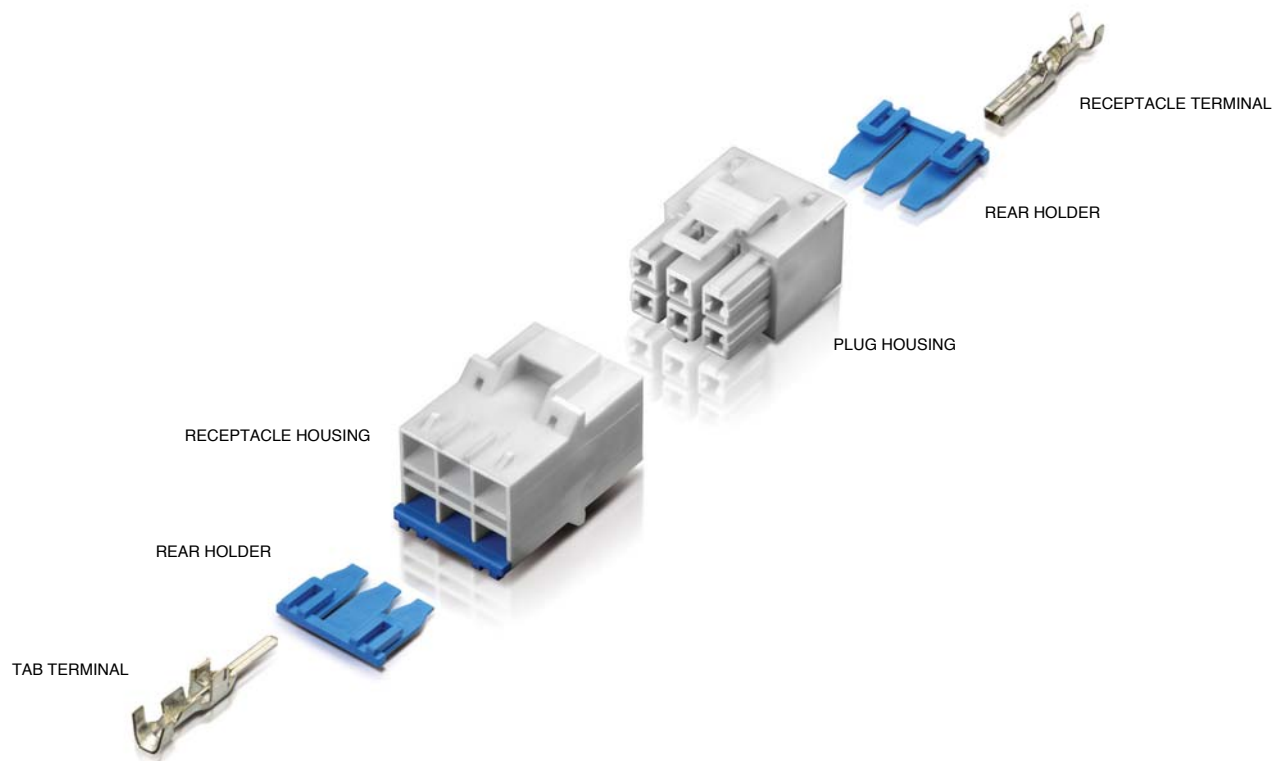
9P

Applicable panel thickness:0.7~2.0mm

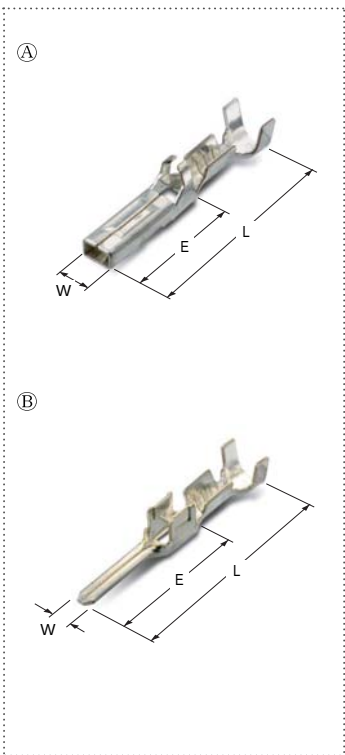
Poles	Part Number	Panel hole dimensions(mm) Tolerance ± 0.1							
		A	B	C	D	E	F	G	H
9	MG 622880	14.5	25.9	33.1	12.1	19.9	25.8	10.1	

1806 D/L CONNECTOR

- ▶ Connector for high voltage application with its large contact area.
- ▶ Employed rear holder to prevent terminals from incomplete lock.
- ▶ With minimum exposure, it protect wings from damage.
- ▶ Application: Compressor in air conditioner, motor part in refrigerator.



TERMINAL

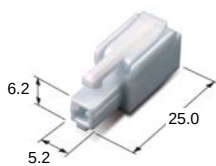
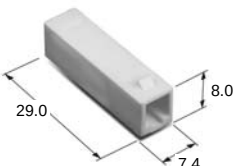
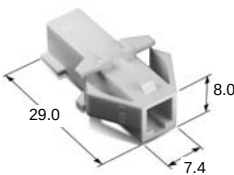
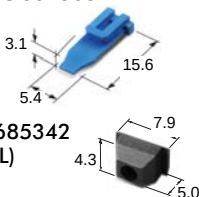
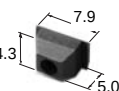
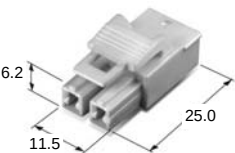
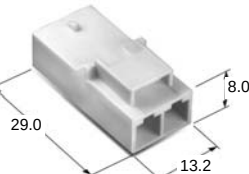
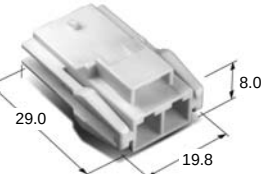
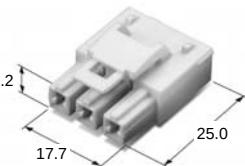
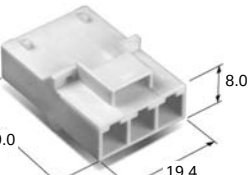
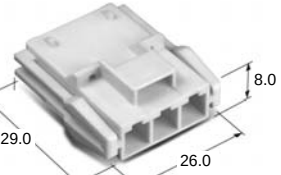
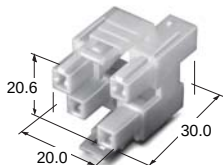
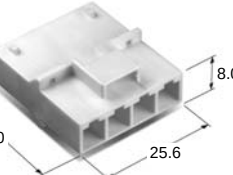
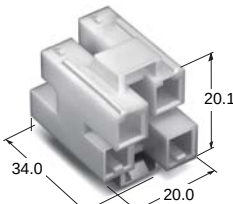
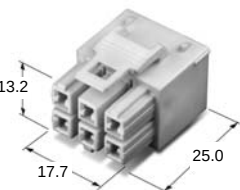
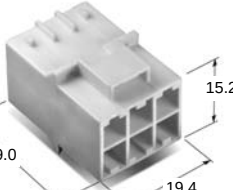
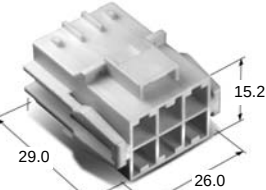
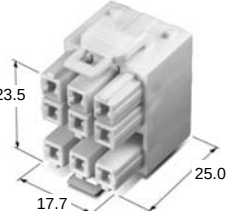
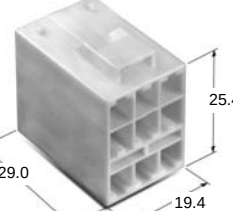
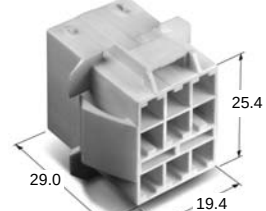


Part No.	Wire Range		Tab		Material	Dimension(mm)			Type
	AWG	mm ²	Thick.	Thick.		L	E	W	
▲ ST730872-3	26-24	0.13-0.22	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	Ⓐ
▲ ST730694-3	22-20	0.3-0.5	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	
▲ ST730695-3	20-18	0.5-0.75	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	
▲ ST730696-3	16-14	1.25-2.0	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	
▲ ST730697-3	20+20 18+18	0.5+0.5 0.75+0.75	0.6	0.3	Copper Alloy Pre-Tin	19.1	10.0	3.0	
▲ ST740871-3	26-24	0.13-0.22	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	Ⓑ
▲ ST740690-3	22-20	0.3-0.5	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	
▲ ST740691-3	20-18	0.5-0.75	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	
▲ ST740692-3	16-14	1.25-2.0	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	
▲ ST740693-3	20+20 18+18	0.5+0.5 0.75+0.75	0.6	0.3	Brass Pre-Tin	22.5	13.4	1.8	

1806 D/L CONNECTOR

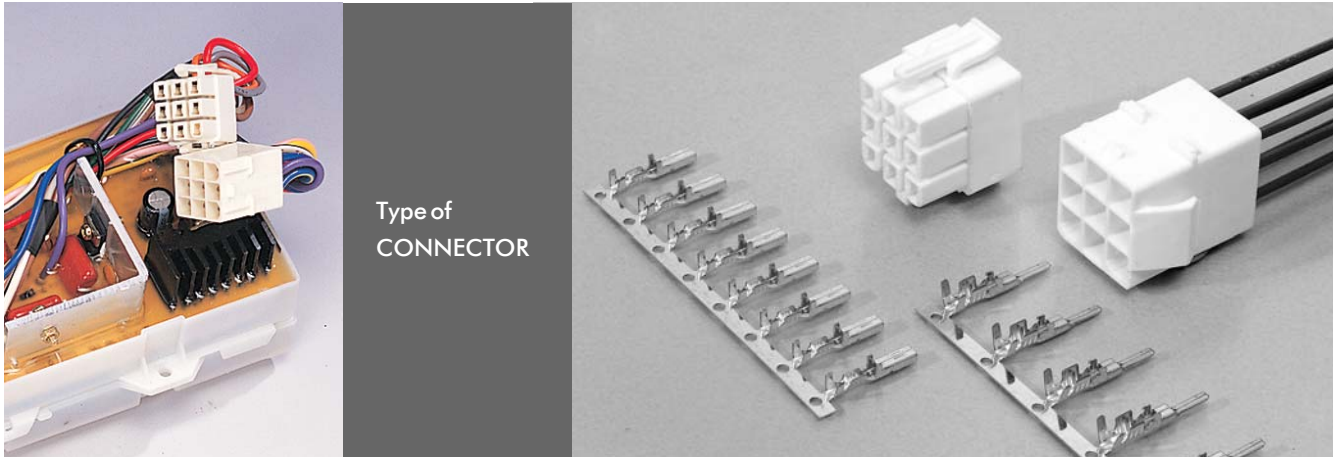
HOUSING

[MG 6 *** *-V0 MG 6 *** *-GWIT]

Poles	Plug housing for female terminal	Receptacle housing for male terminal		Rear Holder
1	▲ MG 611532 ■ MG 611532T 	▲ MG 621534 / MG 621534T 	▲ MG 621533 ■ MG 621533T 	▲ MG 631535-2  MG 685342 (SEAL) 
2	▲ MG 611163 ■ MG 611163T 	▲ MG 621164 ■ MG 621164T 	▲ MG 621173 ■ MG 621173T 	▲ MG 631165-2 
3	▲ MG 611166 ■ MG 611166T 	▲ MG 621167 ■ MG 621167T 	▲ MG 621174 ■ MG 621174T 	▲ MG 631168-2 
4	▲ MG 611169 ■ MG 611169T  MG 615564 	▲ MG 621170 ■ MG 621170T  MG 625434 	▲ MG 621175 	▲ MG 631171-2  MG 635703-2 
6	▲ MG 611468 / MG 611468T 	▲ MG 621470 / MG 621470T 	▲ MG 621469 / MG 621469T 	▲ MG 631168-2 
9	■ MG 612725 / MG 612725T 	■ MG 622724 / MG 622724T 	■ MG 622880 / MG 622880T 	

1806 CONNECTOR

SPECIFICATION



Type of
CONNECTOR



Recognized
FileNo.E 101181



Certified
File No. LR 60232



TÜV Licensed
File No. R9154191
(Conforms to DIN/ VDE 0627)

1806

HOUSING	Material:PBT	
	Available in 1, 2, 3, 4, 6, 9, 12, 15, 16 circuit. Can be used either panel mounting or free hanging	
TERMINAL	Material	
	RECEPTACLE	→ COPPER ALLOY
	TAB	→ BRASS
	Available in two sizes for wire 0.13~2.0mm ² (AWG 26~14)	

Temperature Range	-40℃~+105℃
Current Rating	15A(Max)
Voltage Drop	3(mV / A) MAX.(Initial Value)
Insulation Resistance	1,000(M Ω) / DC500(V)
Dielectric Strength	AC 2,500(V / MIN. Initial Value)

1806 CONNECTOR

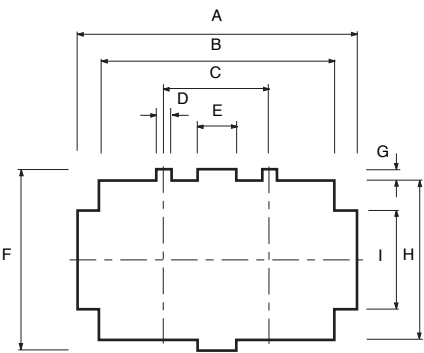
PANEL HOLE DIMENSIONS

Panel hole dimensions are according to number of circuits and type of housing.
Punch hole per drawing is as below, not leaving any burr.

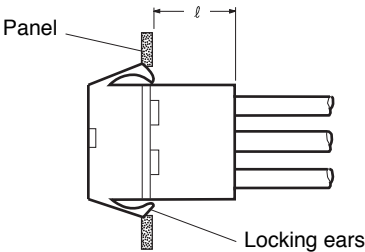
HOUSING FOR 1806 PIN TERMINAL

Applicable panel thickness:0.8~2.4mm

Poles	Housing Part No.	Panel hole dimensions(mm) Tolerance ± 0.13								
		A	B	C	D	E	F	G	H	I
2	MG620225	18.9	13.3	10.0	1.5	4.0	10.2	1.2	7.9	5.8
3	MG620227	24.9	19.3	12.0	1.5	4.0	10.2	1.2	7.9	5.8
4	MG620229	18.9	13.3	10.0	1.5	4.0	16.8	1.2	14.5	9.4
4	MG620231	30.9	25.3	13.8	1.5	4.0	10.2	1.2	7.9	5.8
6	MG620233	24.9	19.3	12.0	1.5	4.0	16.8	1.2	14.5	9.4
9	MG620235	24.9	19.3	12.0	1.5	4.0	23.4	1.2	21.1	12.4
12	MG620237	30.9	25.3	13.8	1.5	4.0	23.4	1.2	21.1	12.4
15	MG620239	36.9	31.3	13.8	1.5	4.0	23.4	1.2	21.1	12.4
16	MG620582	54.9	49.3	17.0	1.5	3.5	17.3	1.65	14.5	12.5



PANEL MOUNTING DIMENSIONS

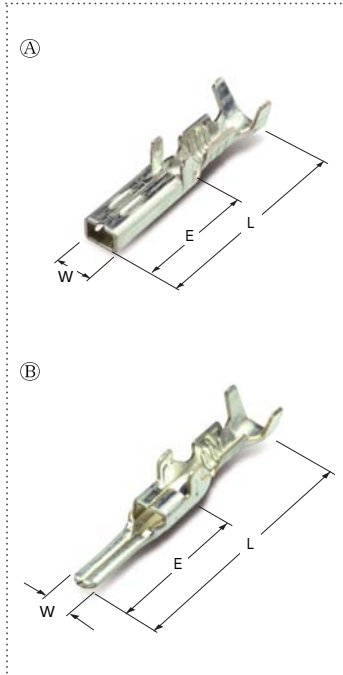


APPLICATION	" l " (mm)
Housing For 1806 Pin Term	15.0

For Panel mounting, insert receptacle straight through mounting hole until both locking ears snap against both sides of the panel hole as shown.

1806 CONNECTOR

TERMINAL



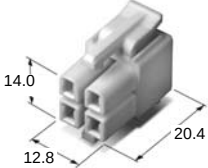
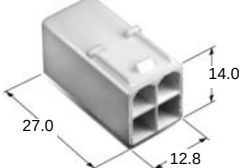
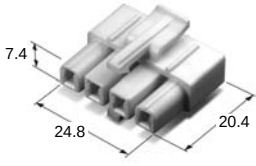
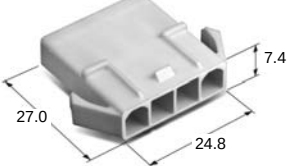
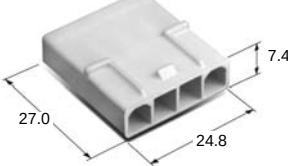
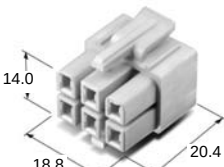
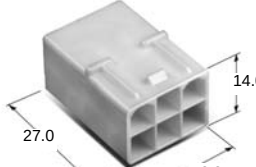
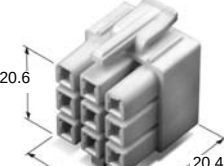
Part No.	Description	Wire Range AWG(mm ²)	Material		Dimension(mm)			Type
			Thick.	Finish	L	E	W	
△ ST730459-3	1806 REC.(S)	26-24 (0.13-0.22)	0.3	Copper Alloy Pre-Tin	17.8	8.0	2.9	A
△ ST731228-3	1806 REC.(DL)	24-22 0.22-0.32	0.3	Copper Alloy Pre-Tin	17.8	8.0	2.9	
△ ST730460-3	1806 REC.(M)	22-20 (0.32-0.52)	0.3	Copper Alloy Pre-Tin	17.8	8.0	2.9	
△ ST731131-3	1806 REC.(DL)	20-18 0.5-0.75	0.3	Copper Alloy Pre-Tin	17.8	8.0	2.9	
△ ST730461-3	1806 REC.(L)	18-14 (0.75-2.0)	0.3	Copper Alloy Pre-Tin	17.8	8.0	2.9	
△ ST730462-3	1806 REC.(XL)	20+20, 20+18 20+16, 18+18	0.3	Copper Alloy Pre-Tin	17.8	8.0	2.9	B
△ ST740463-3	1806 TAB(S)	26-24 (0.13-0.22)	0.3	Brass Pre-Tin	20.6	7.7	1.8	
△ ST741266-3	1806 TAB(DL)	24-22 0.22-0.32	0.3	Brass Pre-Tin	20.6	7.7	1.8	
△ ST740464-3	1806 TAB(M)	22-20 (0.32-0.52)	0.3	Brass Pre-Tin	20.6	7.7	1.8	
△ ST741130-3	1806 TAB(DL)	20-18 0.5-0.75	0.3	Brass Pre-Tin	20.6	7.7	1.8	
△ ST740465-3	1806 TAB(L)	18-14 (0.75-2.0)	0.3	Brass Pre-Tin	20.6	7.7	1.8	
△ ST740466-3	1806 TAB(XL)	20+20, 20+18 20+16, 18+18	0.3	Brass Pre-Tin	20.6	7.7	1.8	

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
1	△ MG 610222 MG 610222S 	△ MG 620223
2	△ MG 610224 MG 635636-3(R/H) ■ MG 610224T(GWIT) MG 610224S-2,5 MG 610224ST(GWIT) 	△ MG 620225 △ MG 621158(Guide) MG 620426 ■ MG 620426T(GWIT) MG 620426S-2,5(GWIT) MG 634482-1(R/H) MG 635636-3(R/H)
3	△ MG 610226 	△ MG 620227 MG 620427

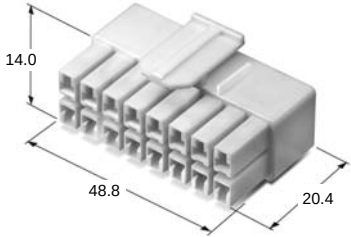
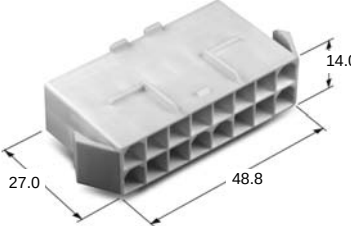
1806 CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal	
4	 MG 610228	 MG 620229	 MG 620429
	 MG 610230	 MG 620231	 MG 620428
	 MG 610232	 MG 620233	 MG 620430
9	 MG 610234	 MG 620235	 MG 620431
	 MG 610236	 MG 620237	 MG 620432
15	 MG 610238	 MG 620239	 MG 620433

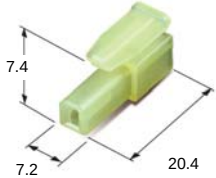
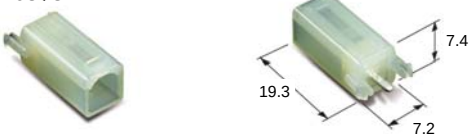
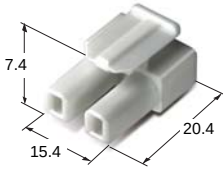
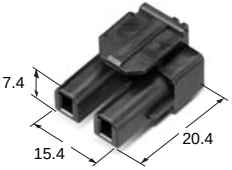
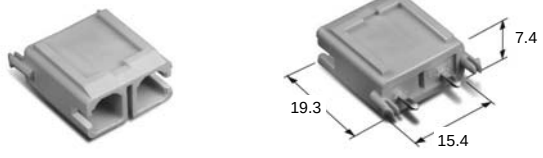
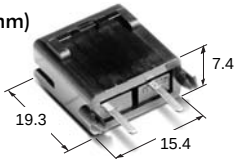
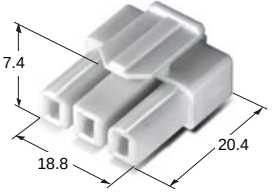
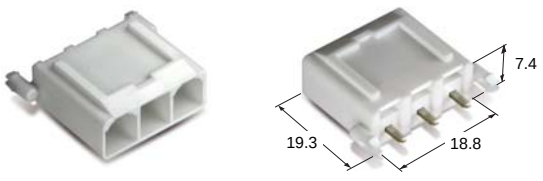
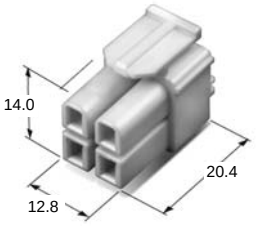
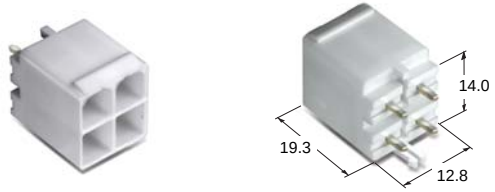
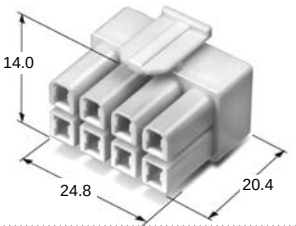
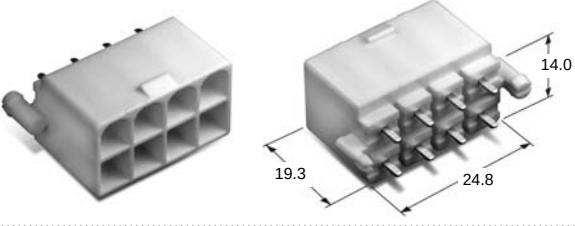
1806 CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
16	■ MG 610581 	■ MG 620582  Suitable Terminal : ST730983-3, ST730983-3

PCB HOUSING

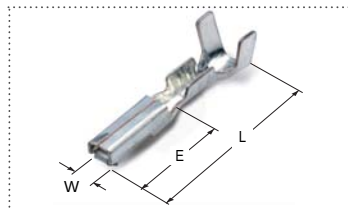
[MG 6 **** *R-V0]

1	▲ MG 610596 	▲ MG 640595 
2	▲ MG 610599 / MG 610599R  ■ MG 615468-5 	▲ MG 640598(8mm) / MG 640598R  ■ MG 645470-5(8mm) 
3	▲ MG 610606 / MG 610606R 	▲ MG 640608(6mm) / MG 640608R 
4	▲ MG 610476 / MG 610476R 	▲ MG 640475(6mm) / MG 640475R 
8	▲ MG 613374 	▲ MG 643375 

1806

060 PCB CONNECTOR(4.2mm Pitch)

TERMINAL

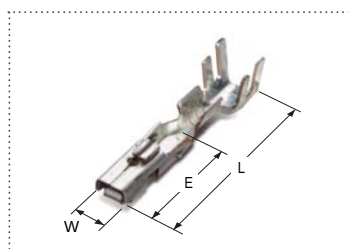


Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST730982-3	24-22	0.2-0.3	0.64	0.25	Copper Alloy Pre-Tin	15.0	6.2	2.2	
ST730983-3	20-18	0.5-0.75	0.64	0.25	Copper Alloy Pre-Tin	15.0	6.2	2.2	

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
4	MG613368 	MG643369
12	MG613371 	MG643372

NEW 060 TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
ST731324-3	24-22	0.2-0.3	0.5	0.25	Copper Alloy Pre-Tin	14.3	4.6	2.2	
ST731307-3	20-18	0.5-0.85	0.5	0.25	Copper Alloy Pre-Tin	14.3	4.6	2.2	

060 HOUSING

Poles	Plug housing for female terminal	Rear Holder
3	MG613212 	MG633861-1
4	MG615482 	MG635483-2

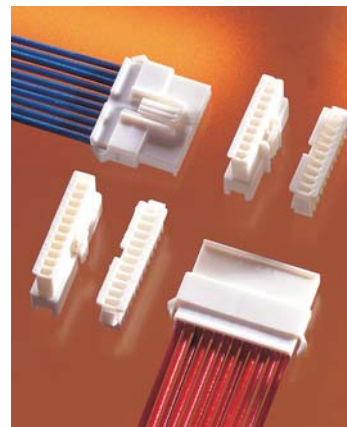
1006 CONNECTOR

Crimping type wire-to-wire connectors 2.5mm pitch disconnectable connectors with panel lock and box type contacts.

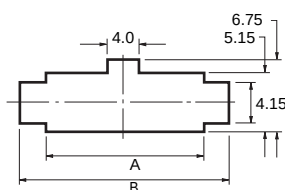
In addition to electrical applications such as air conditioners, sewing machines, etc. 1006 connectors are also applicable in the field of electronics for instruments and micro-computers.

SPECIFICATIONS

Current rating	Temperature range	Contact resistance	Insulation resistance	Withstand voltage
3A AC, DC	-25℃~+85℃	20m Ω/max.	500M Ω/min.	1,000V AC/minute

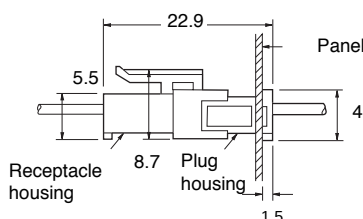


PANEL HOLE DIMENSIONS



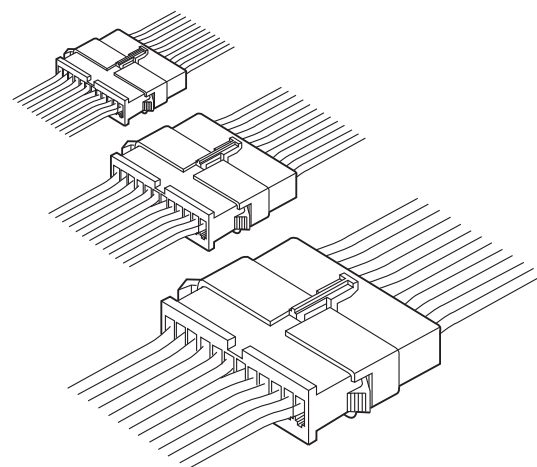
poles	Application		Panel thickness(mm)					
	Housing Connector		0.5-0.9		1.0-1.2		1.6-2.0	
	Part No.	Description	A +0.15 -0	B ±0.1	A +0.15 -0	B ±0.1	A +0.15 -0	B ±0.1
2	MG 610128	1006 2P	5.7	9.6	5.7	9.8	5.7	10.0
6	MG 610136	1006 6P	15.7	19.6	15.7	19.8	15.7	20.0
10	MG 610144	1006 10P	25.7	29.6	25.7	29.8	25.7	30.0
12	MG 610148	1006 12P	30.7	34.6	30.7	34.8	30.7	35.0

PANEL MOUNTING DIMENSIONS



FEATURES

- Suitable for wide range of panel thickness.
- Panel locking mechanism allows easy mounting; no tools are needed.
- Male and Female connector interlocking is positive, and strong, and keeps mated connectors firmly together.
- Folded type male contact is strong to withstand twist or bend.
- Spring contact surface assures easy, trouble-free mating and long life from repeated disconnections.
- Multi-pole shell type housing protects and isolates contacts completely; rectangular shape gives stable location for both connectors and contacts; turn or twist prevented.
- Polarization prevents mismatching.
- Box type socket contact makes connection to both sides of the male pin with clean wiping action and high contact pressure.
- Mating parts are protected inside of the wrapped construction.



1006 CONNECTOR

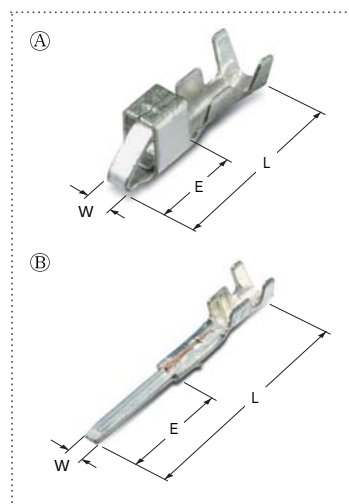


TÜV Licensed
File No. R9154195
(Conforms to DIN / VDE 0627)

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
2	○ MG 610128	○ MG 620129
6	○ MG 610136 MG 611364	○ MG 620137
10	○ MG 610144	○ MG 620145
12	○ MG 610148	○ MG 620149

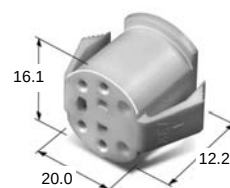
TERMINAL



Part No.	Description	Wire Range AWG(mm ²)	Material		Dimension(mm)			Type
			Thick.	Finish	L	E	W	
○ ST 730335-3 ST 730910-3	1006 Rec.	26-22 (0.13-0.33)	0.2	Phos. Bronze Pre-Tin	9.0	3.8	1.9	Ⓐ
○ ST 740334-3	1006 Tab.	26-22 (0.13-0.33)	0.25	Brass Pre-Tin	15.8	7.0	1.0	Ⓑ

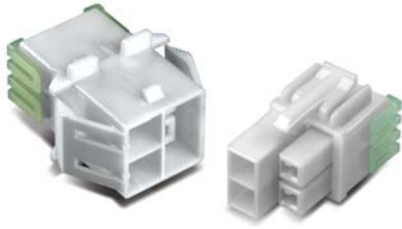
SENSOR CONNECTOR

MG 610454(4P)



Suitable Terminal : ST 730335, ST 730910

NEW 070 CONNECTOR

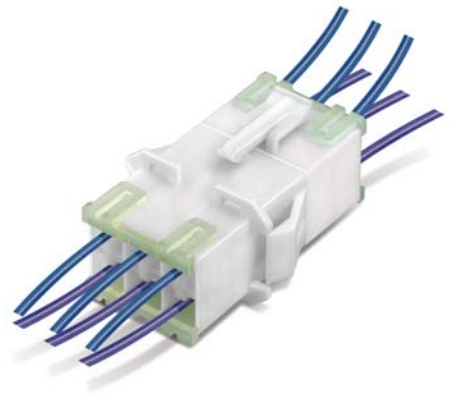


MULTI CONNECTION

- ▶ 070" Tab type wire-to-wire system offers superior reliability, easy assembly and disconnection.

SECONDARY RETAINER

- ▶ The secondary retainers enhance safety in case of partial insertion or accidental release of the contact.
Double lock structure for reliable terminal insertion.

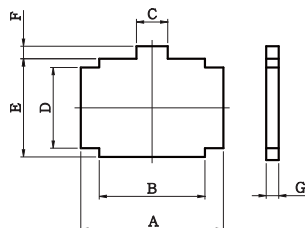


NEW 070

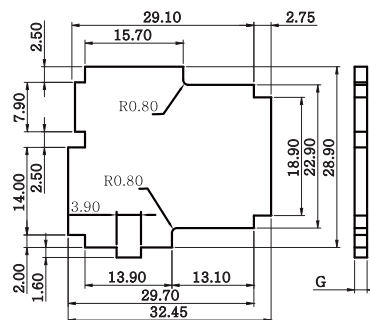
Current Rating	15A	
Voltage Rating	300V	
Temperature Range	-40℃~ +120℃	
Contact Resistance	3mV/A Min. (Initial Value)	
	6mV/A Min. (After Environmental Testing)	
Insulation Resistance	1,000MΩ Min.	
Dielectric Strength	AC 2,500(V / MIN.)	
Wire Size	-	
Material	HS'G	PBT(V0)/ PET+PC(GWIT)
	R / H	PA66(V2)
	TM'L	TAB: Brass Pre -Tin REC.: Copper Alloy/Pre -Tin

PANEL HOLE DIMENSIONS

Poles	Part Number	Panel hole dimensions(mm) Tolerance ±0.1							TYPE
		A	B	C	D	E	F	G	
2	MG 625305	19.90	13.90	5.00	5.50	8.50	2.00	0.8~2.0	A
3	MG 625308	28.90	22.90	5.00	5.50	9.70	2.00	0.8~2.0	A
4	MG 625311	22.80	16.90	5.00	12.90	15.70	2.00	0.8~2.0	A
6	MG 625314	29.30	22.90	3.80	10.40	15.70	1.60	0.8~2.0	A
9	MG 625316								



PANEL HOLE DIMENSION(TYPE:A)

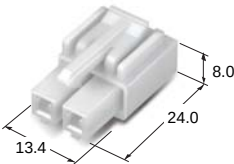
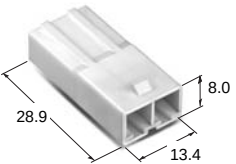
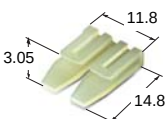
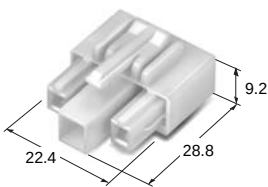
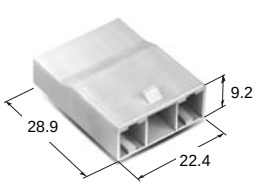
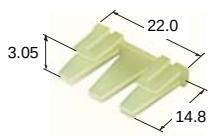
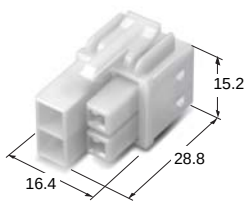
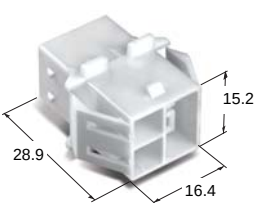
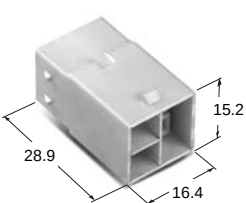
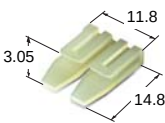
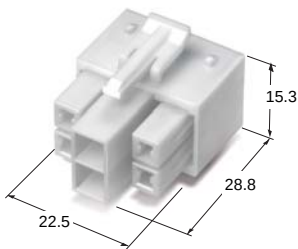
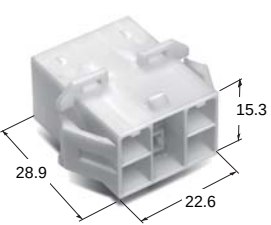
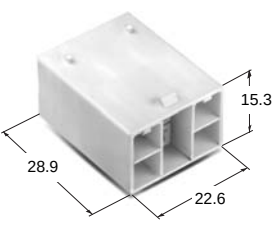
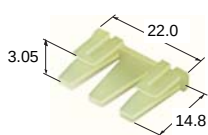
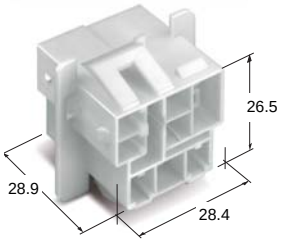


9P PANEL HOLE DIMENSION MG 625316(T)

NEW 070 CONNECTOR

HOUSING

[MG 6 *****-V0 MG 6 *****T-GWIT]

Poles	Plug housing for female terminal	Receptacle housing for male terminal		Rear holder
2	▲ MG 615304 ▲ MG 615304T 	▲ MG 625305 ▲ MG 625305T 	▲ MG 625306 ▲ MG 625306T 	MG 635317 
3	▲ MG 615307 ▲ MG 615307T 	▲ MG 625308 ▲ MG 625308T 	▲ MG 625309 ▲ MG 625309T 	MG 635318 
4	▲ MG 615310 ▲ MG 615310T 	▲ MG 625311 ▲ MG 625311T 	▲ MG 625312 ▲ MG 625312T 	MG 635317 
6	▲ MG 615313 ▲ MG 615313T 	▲ MG 625314 ▲ MG 625314T 	▲ MG 625315 ▲ MG 625315T 	MG 635318 
9		▲ MG 625316 ▲ MG 625316T 		
		Suitable Housing : MG615304(T), MG615307(T), MG615310(T) Suitable R/H : MG635317, MG635318		

070 WP CONNECTOR

► LOW INSERTION FORCE

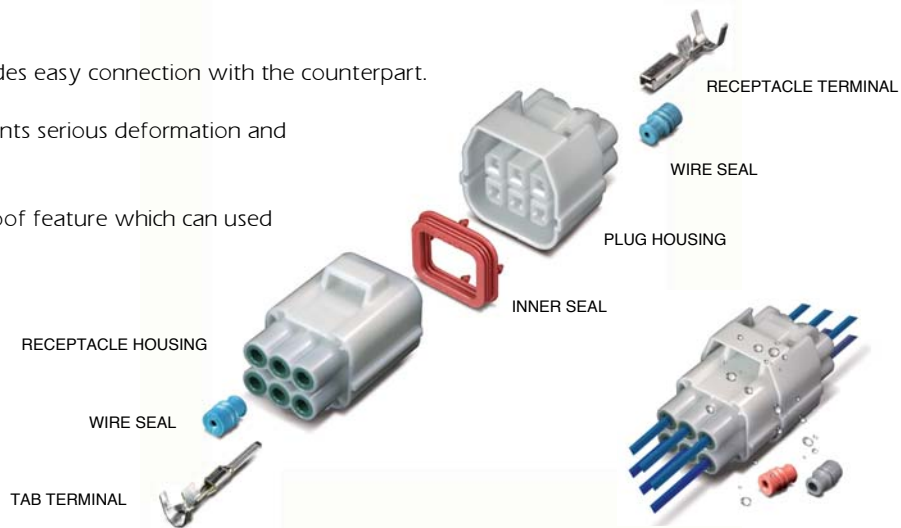
The low insertion force feature provides easy connection with the counterpart.

► SAFE LOCK SYSTEM

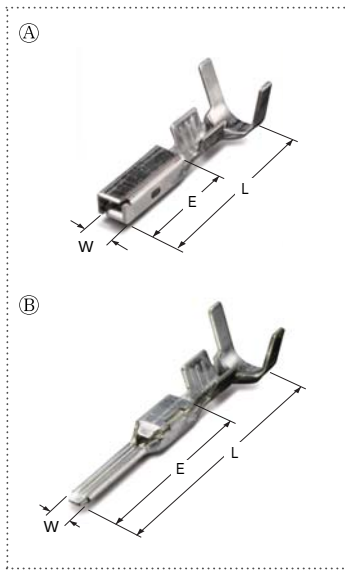
This connector's locking system prevents serious deformation and unlocking by external force.

► WATER PROOF (IP68)

This connector can provide water-proof feature which can used at the inside of laundry machine.



◎ TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
❑ ST731385-3	22-20	0.34-0.53	0.64	0.25	Copper Alloy Pre-Tin	16.0	7.0	2.7	A
❑ ST731386-3	18-16	0.86-1.38	0.64	0.25	Copper Alloy Pre-Tin	16.0	7.0	2.7	
❑ ST731387-3	14	2.17	0.64	0.25	Copper Alloy Pre-Tin	16.0	7.0	2.7	
❑ ST741350-3	22-20	0.34-0.53	0.64	0.30	Brass Pre-Tin	22.7	13.5	1.8	B
❑ ST741351-3	18-16	0.86-1.38	0.64	0.30	Brass Pre-Tin	22.7	13.5	1.8	
❑ ST741352-3	14	2.17	0.64	0.30	Brass Pre-Tin	22.7	13.5	1.8	

◎ WIRE SEAL

Part No.	Wire Range		Wire Diameter (mm)	Material	Color	Dimension(mm)		Type
	AWG	mm ²				L	€	
❑ MG685430	-	-	-	Silicone	Red	-	-	C
❑ MG685431	22-20	0.34-0.53	Ø1.60-1.80	Silicone	Blue	8.00	5.40	D
❑ MG685432	20	0.53	Ø2.50	Silicone	Red	8.00	5.40	E
❑ MG685433	18-16	0.86-1.38	Ø2.80-3.10	Silicone	Gray	8.00	5.40	F
❑ MG685434	14	2.17	Ø3.30	Silicone	Green	8.00	5.40	G
❑ MG685435	Dummy Seal	0.53-0.86	Ø2.50-2.75	Silicone	Black	6.20	5.50	H



◎ HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal
6	❑ MG615581	❑ MG625442
	❑ MG655771 (MG615581 + MG685430)	

NEW 060 CONNECTOR

LOW INSERT FORCE CONTACT

- The low insertion force feature reduces surface wear and reduce the effects of stress.

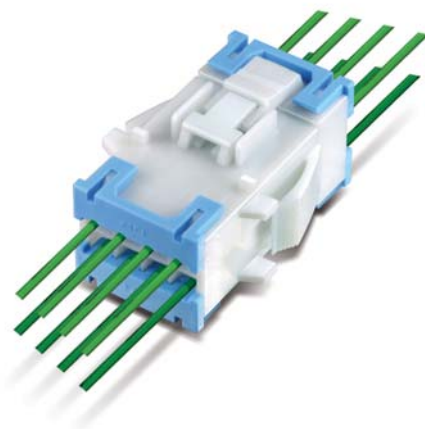
INTER-HOUSING LOCK

- This inter-housing lock feature secures the plug to the receptacle and prevents accidental disconnection.
- The lock is protected from external forces that might be being generated during routing of wires.

SECONDARY RETAINER

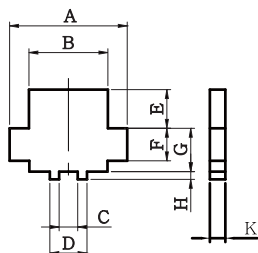
- The secondary retainers are preventing from partial insertion or accidental release of the contact.

Current Rating	10A	
Voltage Rating	300V	
Temperature Range	-40 ℃~+105 ℃	
Contact Resistance	3mV/A Min. (Initial Value) 6mV/A Min. (After Environmental Testing)	
Insulation Resistance	1,000M Ω Min	
Dielectric Strength	AC 2,500(V / MIN.)	
Wire Size	AWG #24~16, #22+22	
Material	HS'G	PBT(V0)/ PET+PC(GWIT)
	R / H	PA66(V0)
	TM'L	TAB: Brass Pre -Tin REC.:Copper Alloy/Pre -Tin

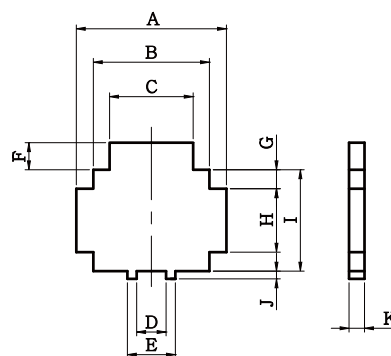


PANEL HOLE DIMENSIONS

Poles	Part Number	Panel hole dimensions(mm) Tolerance $\pm 0.1, -0$											TYPE
		A	B	C	D	E	F	G	H	I	J	K	
2	MG 624540	15.20	10.20	2.40	4.80	5.00	4.20	5.60	1.00	-	-	0.3~2.0	A
4	MG 624490	15.20	10.20	2.40	4.80	5.95	8.20	10.65	1.00	-	-	0.3~2.0	A
4	MG 624159	23.60	19.20	10.80	12.80	15.20	3.50	1.40	4.20	7.00	1.00	0.3~2.0	B
6	MG 624161	19.40	15.00	10.80	3.80	6.20	3.50	2.45	8.20	13.10	1.00	0.3~2.0	B
8	MG 624163	23.60	19.20	10.80	5.20	7.60	3.50	2.45	8.20	13.10	1.00	0.3~2.0	B



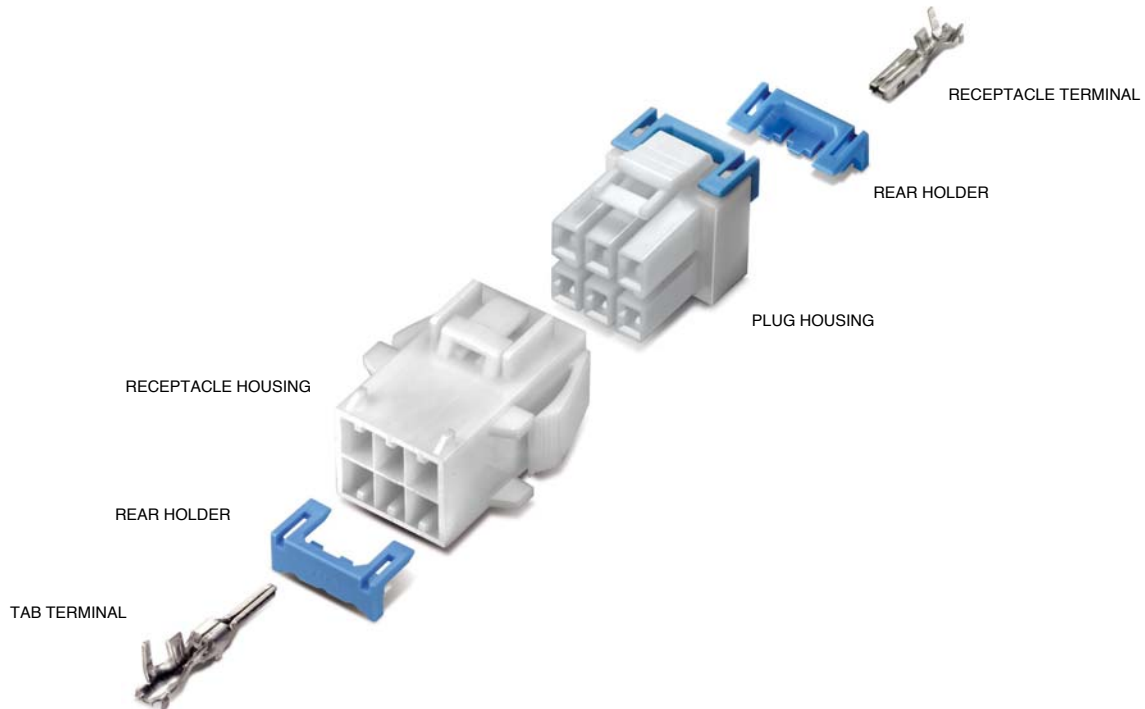
PANEL HOLE DIMENSION (TYPE:A)



PANEL HOLE DIMENSION (TYPE:B)

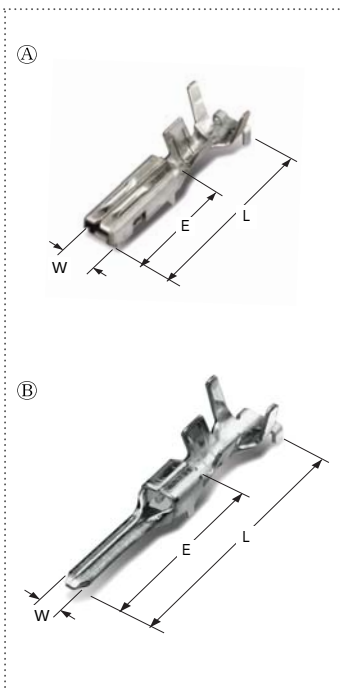
NEW 060 CONNECTOR

- ▶ These connectors are used in industrial equipments and home appliances such as microwave ovens, laundry machines and refrigerators.
- ▶ They are suitable for connecting mid and high current carrying circuits, and are available both in relay models and panel-mounting models.
- ▶ Rear holders are fitted to structures to prevent incomplete terminal locking or non-insertion.
- ▶ Terminals are designed as a box-type structures to improve contact and electrical reliability.
- ▶ The Push-Pull Locking structure prevents arm-locking in housing locking types.



NEW 060

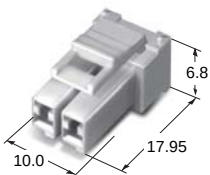
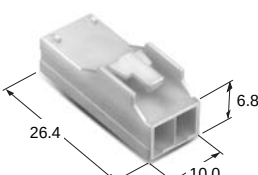
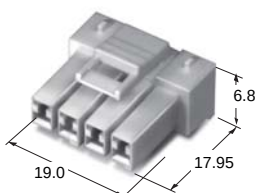
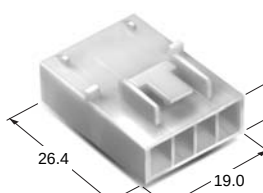
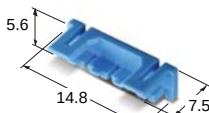
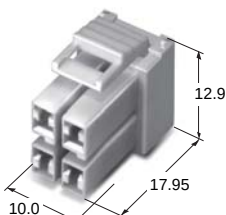
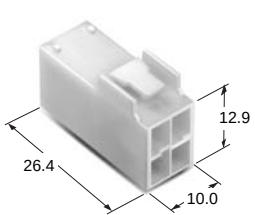
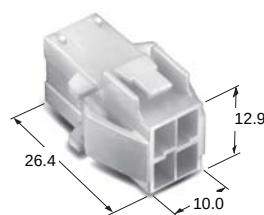
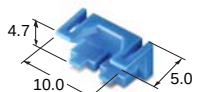
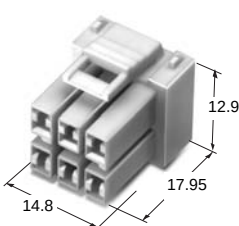
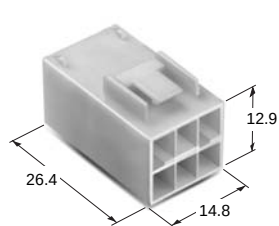
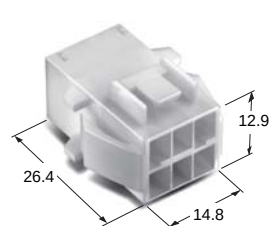
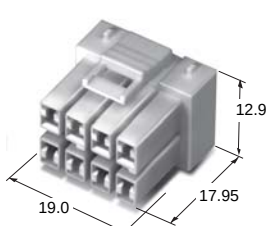
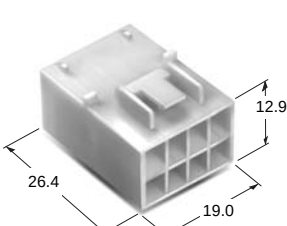
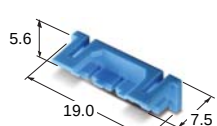
TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
■ST731081-3	24-22	0.22-0.34	0.6	0.25	Copper Alloy Pre-Tin	14.5	5.0	2.5	Ⓐ
■ST731082-3	20-18	0.52-0.87	0.6	0.25	Copper Alloy Pre-Tin	14.5	5.0	2.5	
■ST731083-3	18-16 22+22	0.87-1.32	0.6	0.25	Copper Alloy Pre-Tin	14.5	5.0	2.5	
■ST741084-3	24-22	0.22-0.34	0.6	0.3	Brass Pre-Tin	18.3	8.6	1.5	Ⓑ
■ST741085-3	20-18	0.52-0.87	0.6	0.3	Brass Pre-Tin	18.3	8.6	1.5	
■ST741086-3	18-16 22+22	0.87-1.32	0.6	0.3	Brass Pre-Tin	18.3	8.6	1.5	

NEW 060 CONNECTOR

HOUSING

Poles	Plug housing for female terminal	Receptacle housing for male terminal		Rear holder
2	MG 614538 	MG 624537 	MG 624540 	MG 634487-2 
4	MG 614158 	MG 624208 	MG 624159 	MG 634164-2 
6	MG 614488 	MG 624489 	MG 624490 	MG 634487-2 
8	MG 614160(GWIT) MG 614812(V0) 	MG 624209 	MG 624161 	MG 634165-2 
8	MG 614162(GWIT) MG 614814(V0) 	MG 624210(GWIT) MG 624210L(V0) 	MG 624163(GWIT) MG 624163L(V0) 	MG 634164-2 

NEW 050 CONNECTOR

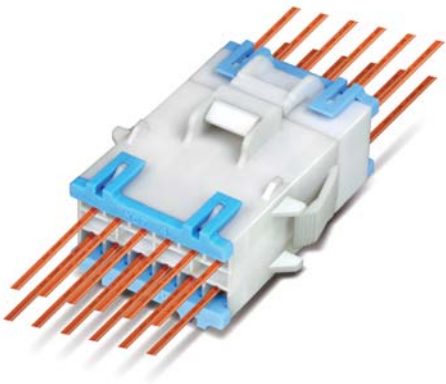
TWO FUNCTION(WP / NWP)

► Design for parts which requires waterproof and non water proof function.

SECONDARY RETAINER

► The secondary retainers enhance safety in case of partial insertion or accidental release of the contact.
Double lock structure for reliable terminal insertion.

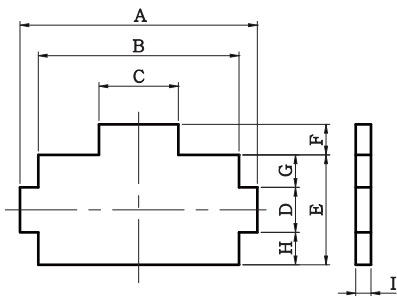
Current Rating		8A
Voltage Rating		300V
Temperature Range		-40℃~ +105℃
Contact Resistance		3mV/A Min. (Initial Value) 6mV/A Min. (After Environmental Testing)
Insulation Resistance		1,000MΩ Min
Dielectric Strength		AC 2,500(V / MIN.)
Wire Size		AWG #24-18, #20+20, #18+18
Material	HS'G	PA66 (V0), PET+PC(GWIT)
	R / H	PA66(V0)
	TM'L	TAB: Brass Pre -Tin REC. : Copper Alloy/Pre -Tin



NEW 050

PANEL HOLE DIMENSIONS

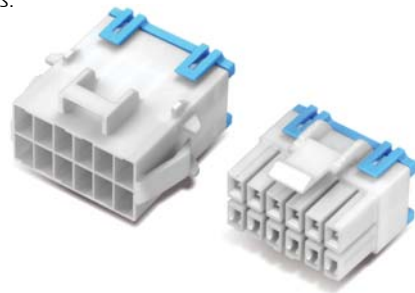
Poles	Part Number	Panel hole dimensions(mm) Tolerance ± 0.1								
		A	B	C	D	E	F	G	H	I
12	MG 624693	38.65	33.85	10.40	5.90	17.70	4.30	4.85	6.95	0.8-2.0
12	MG 625251	31.10	26.30	10.40	5.90	14.40	4.00	-	-	0.8-2.0
18	MG 625255	47.60	42.80	10.40	5.90	14.40	4.00	-	-	0.8-2.0
20	MG 625431	47.90	43.10	10.40	5.90	14.40	3.50	-	-	0.8-2.0



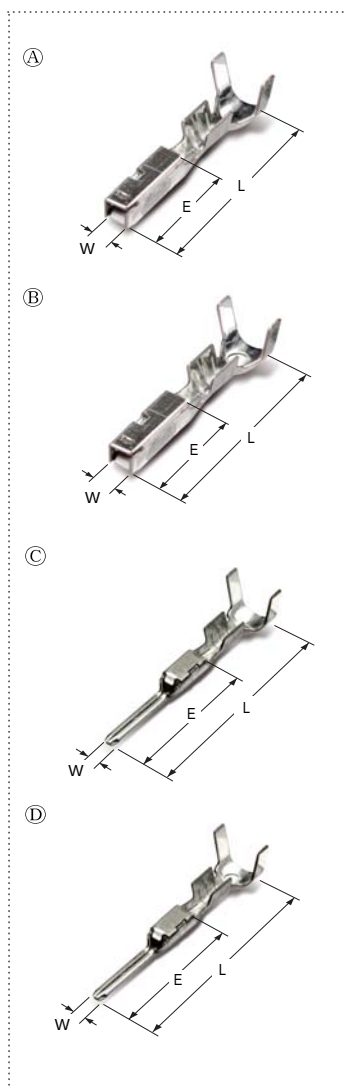
PANEL HOLE DIMENSION

NEW 050 CONNECTOR

- These connectors are used in industrial equipments and home appliances such as microwave ovens, laundry machines and refrigerators.
- They are suitable for connecting mid and high current carrying circuits, and are available both in relay models and panel-mounting models.

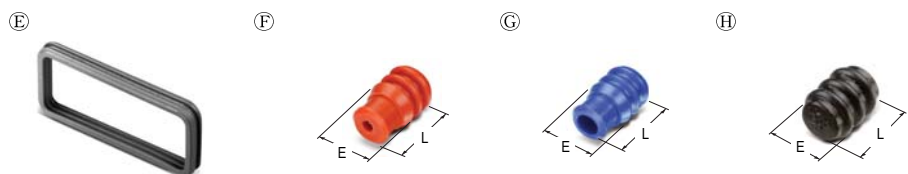


TERMINAL



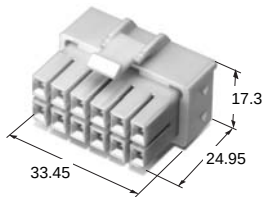
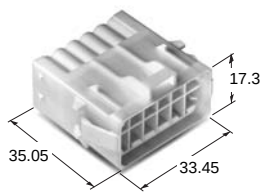
Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	€	W	
■ ST731169-3	24-22	0.22-0.34	0.63	0.2	Copper Alloy Pre-Tin	15.8	6.5	2.05	A
■ ST731170-3	20-18	0.53-0.86	0.63	0.2	Copper Alloy Pre-Tin	15.8	6.5	2.05	
■ ST731171-3	24-22	0.22-0.34	0.63	0.2	Copper Alloy Pre-Tin	15.8	6.5	2.05	B
■ ST731172-3	20-18	0.53-0.86	0.63	0.2	Copper Alloy Pre-Tin	15.8	6.5	2.05	
■ ST731303-3	20+20 18+18	1.0-1.72	0.63	0.2	Copper Alloy Pre-Tin	15.8	6.5	2.05	A
■ ST741173-3	24-22	0.22-0.34	0.63	0.25	Brass Pre-Tin	22.2	12.9	1.2	C
■ ST741174-3	20-18	0.53-0.86	0.63	0.25	Brass Pre-Tin	22.2	12.9	1.2	
■ ST741175-3	24-22	0.22-0.34	0.63	0.25	Brass Pre-Tin	22.2	12.9	1.2	D
■ ST741176-3	20-18	0.53-0.86	0.63	0.25	Brass Pre-Tin	22.2	12.9	1.2	
■ ST741304-3	20+20 18+18	1.0-1.72	0.63	0.25	Brass Pre-Tin	22.2	12.9	1.2	C

Part No.	Wire Range		φ	Material	Color	Dimension(mm)		Type
	AWG	mm ²				L	€	
MG 684872	INNER-SEAL	-	-	Silicone	Black	-	-	E
MG 684699	24-22	0.22-0.34	Ø2.15-2.30	Silicone	Red	7.0	4.6	F
MG 684700	20-18	0.53-0.86	Ø2.5-2.75	Silicone	Blue	7.0	4.6	G
MG 683695	DUMMY-SEAL	-	-	Silicone	Black	6.2	4.9	H

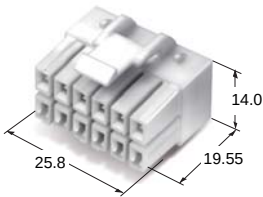
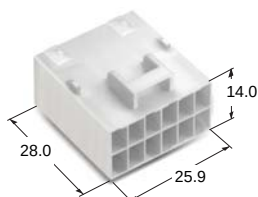
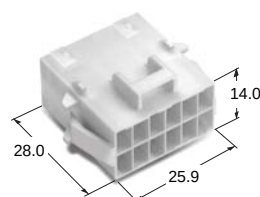
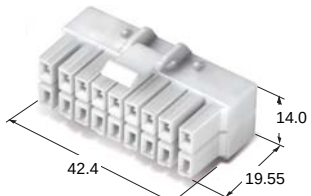
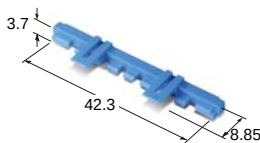
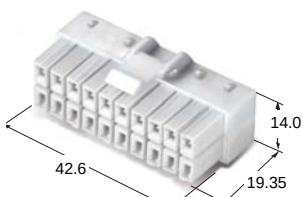
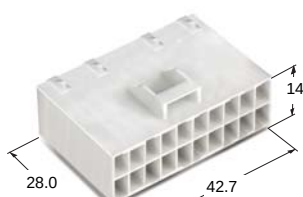
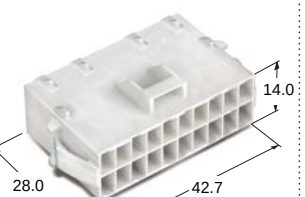
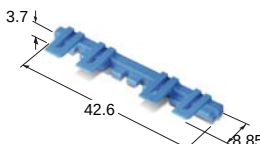


NEW 050 CONNECTOR

HOUSING (Waterproof)

Poles	Plug housing for female terminal	Rear holder	Receptacle housing for male terminal	Rear holder
12	MG 614695 	MG 634697-2 	MG 624693 	MG 634698-1 

HOUSING (Non-waterproof)

Poles	Plug housing for female terminal	Receptacle housing for male terminal		Rear Holder
12	MG 615249(V0) 	MG 625250(V0) 	MG 625251(V0) 	MG 635252-2 
18	MG 615253(GWIT) 	MG 625254(GWIT) 	MG 625255(GWIT) 	MG 635256-2 
20	MG 615562(GWIT) 	MG 625432(GWIT) 	MG 625431(GWIT) 	MG 635620-2 

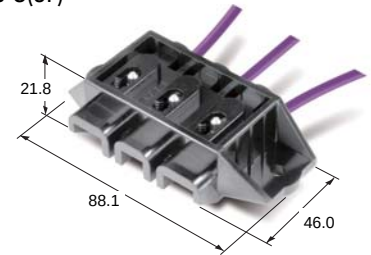
POWER BLOCK

- Connector designed for high voltage in an appliance.
- The connectors are designed to be mounted to the chassis of a household appliance.

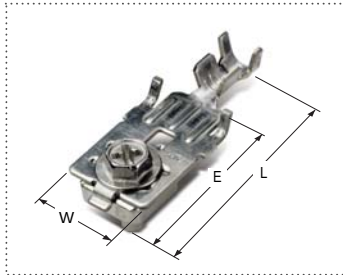
Current Rating	40A
Voltage Rating	300V
Temperature Range	-55 °C ~ +150 °C

Plug housing for female terminal

● MG 625428-5(3P)



● TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
■ ST761319-3	18-16	0.8-1.3	-	0.8	Brass Pre-Tin	36.3	13.7	14.5	
■ ST761320-3	14-12	2.2-3.5	-	0.8	Brass Pre-Tin	36.3	13.7	14.5	
● ST761330-3	10	5.2	-	0.8	Brass Pre-Tin	36.3	13.7	14.5	

MOTOR MULTI CONNECTOR

MULTI & STABLE CONNECTION

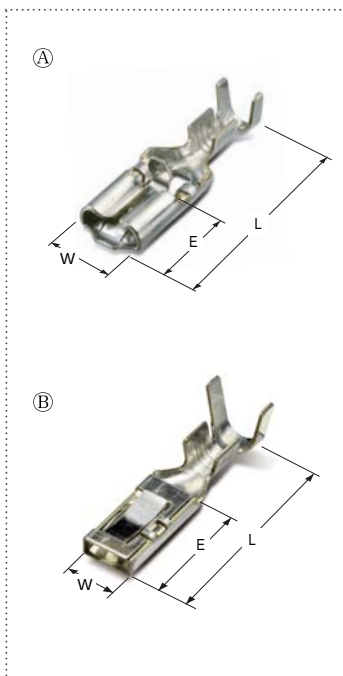
- 250 & 125 hybrid type wire-to-unit system offers superior reliability , easy assembly and disconnection. especially, 125 female terminal has two contact surface which ensure stable and reliable connection.

SECONDARY RETAINER

- The secondary retainers enhance safety in case of partial insertion or accidental release of the contact.

Current Rating	10A
Voltage Rating	300V
Temperature Range	-20 °C ~ +105 °C

● TERMINAL



Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
ST730570-3	22-18	0.31-0.89	0.8	0.4	Brass Pre-Tin	22.8	6.5	7.6	Ⓐ
ST730571-3	18-14	0.76-2.09	0.8	0.4	Brass Pre-Tin	22.8	6.5	7.6	
ST731342-3	20-18	0.53-0.86	0.5	0.25	Brass Pre-Tin	22.8	6.5	7.6	Ⓑ

● HOUSING

MG 635571

MG 635572-2(R/H)

MG 635573-2(R/H)

MG 635574-1(R/H)

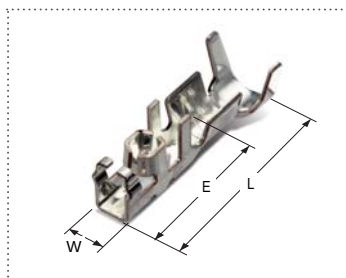
6



Suitable Terminal: ST730570, 730572, 731342

CLUSTER CONNECTOR(30A)

⦿ A/C COMP TERMINAL



Part No.	Wire Range		ϕ	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
■ ST731109-3	12-10	3.0-5.0	3.2	0.5	Copper Alloy Pre-Tin	22.8	5.4	4.0	

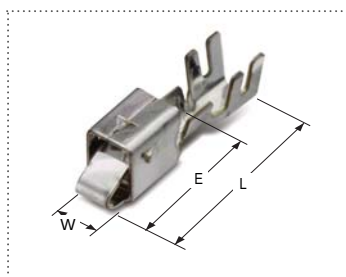
⦿ HOUSING

Poles	Plug housing for female terminal	Rear Holder
3	■ MG 634211(H: 27.0) ■ MG 634211L(H: 29.0)	■ MG 634617-2

CLUSTER

5.0mm PITCH CONNECTOR

⦿ TERMINAL



Part No.	Wire Range		Tab Thick.	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST731299-3	24-20	0.2-0.5	0.25	0.8	Brass Pre-Tin	12.4	5.5	3.0	

⦿ HOUSING

Poles	Plug housing for female terminal	Rear Holder
3	MG 615168	MG 635169-1

PCB CONNECTOR

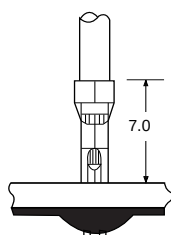
250 P.C.B TAB TERMINAL

Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
GP881191-2		Pitch:4.8		0.8	Brass	15.5	8.0	6.35	A
GP881191-3					Brass/Tin				
GP881206-1		Pitch:4.8		0.8	Brass	18.0	8.0	6.35	C
GP881206-2					Brass/Tin				

187 P.C.B TAB TERMINAL

△ GP881200-2		Pitch:4.5		0.5	Brass	12.1	6.35	4.75	B
△ GP881200-3					Brass/Tin				
△ GP881205-1		Pitch:4.5		0.5	Brass	14.5	6.35	4.75	C
△ GP881205-2					Brass/Tin				

- Many single-pole wire connections are used on printed circuit boards.
- The crimping connector is inserted into a hole of PC Board ; enable fast processing and easy soldering
- Eliminated the insecurity frictional connection of usual two-piece connectors.



SPECIFICATIONS

Temperature range	-25 °C~+85 °C
Applicable wires	AWG#26~#18
Applicable PC board thickness	.063"(1.6mm)

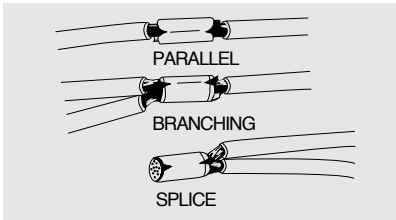
1.8 P.C.B CONTACT TERMINAL

Part No.	Wire Range		Tab Thick.	Thick.	Material Finish	Dimension(mm)			Type
	AWG	mm ²				L	E	W	
△ ST780387-3	24-20	0.2-0.5		0.25	Brass Pre-Tin	10.0	3.6	2.2	D
△ ST780400-3	20-18	0.5-0.85			Brass Pre-Tin				
ST780956-3	16	1.25			Brass Pre-Tin				
△ ST780487-3	22-18	0.3-0.85		0.2	Brass Pre-Tin	6.8	4.1		E

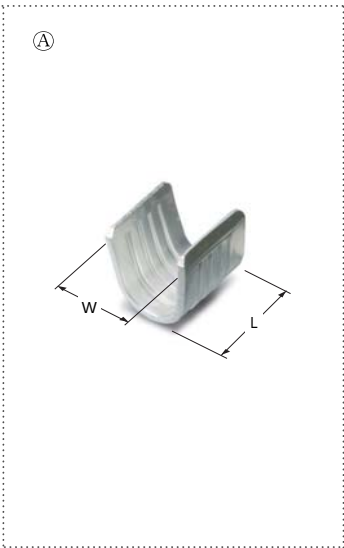
SPLICE

WIRE SPLICE

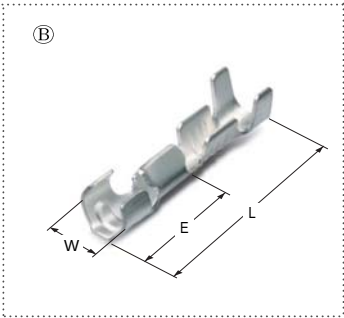
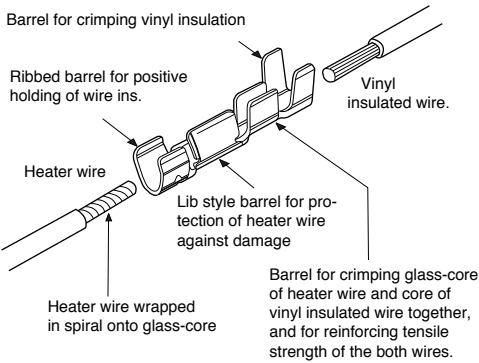
- Designed for crimping terminals which combine with two or more stranded wires.
- Suitable for electrical home appliances, automotive circuits and electronic products : also useful in general circuits.



WIRE SPLICE(SIDE FEED)



Part No.	Wire Range		Material		Dimension(mm)			Type
	AWG	mm²	Thick.	Finish	L	€	W	
ST760320-1	20-16	0.5-1.35	0.5	Brass	6.0		3.2	A
ST760320-2				Brass/Tin				
ST760149-1	16-13	1.0-2.55	0.5	Brass	6.0		4.0	
ST760149-2				Brass/Tin				
ST760145-1	12-9	3.0-6.0	0.6	Brass	6.0		6.0	
ST760145-2				Brass/Tin				
ST760146-1	7-6	7.0-13.0	0.6	Brass	8.0		8.0	
ST760146-2				Brass/Tin				
ST760299-1	17-11	1.5-4.0	0.5	Brass	6.0		5.0	
ST760299-2				Brass/Tin				
ST760344-1	5-4	16.0-18.0	0.8	Brass	8.5		10.0	
ST760344-2				Brass/Tin				
ST761305-3	20+SOLID22	0.5+0.3	0.25	Brass	3.8		2.56	
				Brass/Pre-Tin				

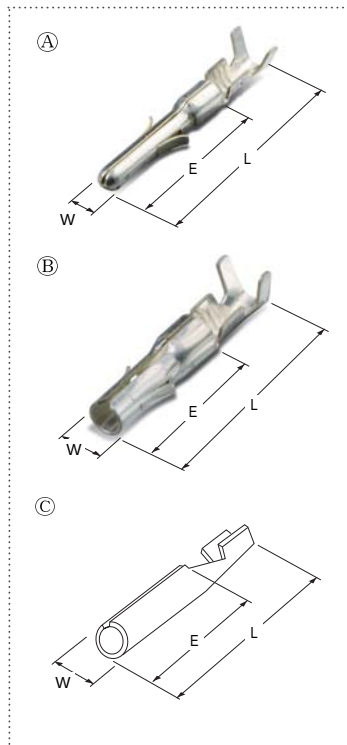


HEATER SPLICE

Part No.	Wire Range		Material		Dimension(mm)				Type
	AWG	mm ²	Thick.	Finish	L	€	W	H	
ST760322-1	22-18	0.3-0.85	0.4	Brass	19.0	9.7	4.5	3.0	B
ST760322-2				Brass/Tin					

PIN & RECEPTACLE TERMINAL

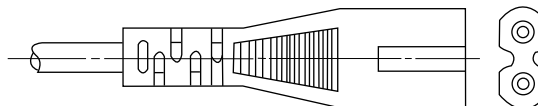
Ø2.36 TERMINAL



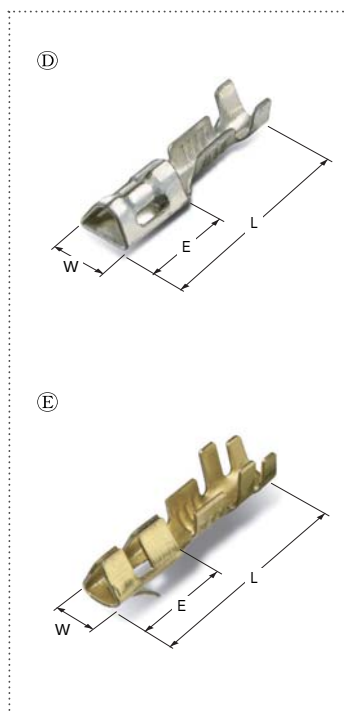
Part No.	Description	Wire Range AWG(mm²)	Material		Dimension(mm)			Type
			Thick.	Finish	L	E	W	
ST750301-3	2.36 Pin	20-18 (0.5-0.85)	0.3	Brass Pre-Tin	23.0	15.5	2.36	A
◇ ST750161-3		18-14 (0.75-2.27)	0.3	Brass Pre-Tin	23.0	15.5	2.36	
ST730300-3	2.36 Rec.	20-18 (0.5-0.85)	0.3	Brass Pre-Tin	19.0	11.5		B
◇ ST730160-3		18-14 (0.75-2.27)	0.3	Brass Pre-Tin	19.0	11.5		

AC POWER CORD TERMINAL

ST730076-1	Ø2.35 Connector	20-16 (0.5-1.5)	0.4	Brass	16.0	9.5	3.15	C
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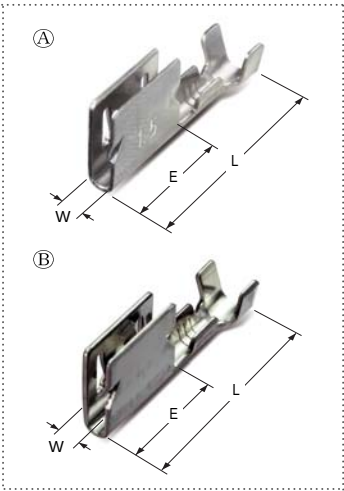
- Designed for use in various electronic and electrical appliances.
- These connectors provide stable electrical efficiency and extremely reliable insertion and withdrawal resistance.



MULTI COMBINATION TERMINAL

Part No.	Description	Wire Range AWG(mm²)	Material		Dimension(mm)			Type
			Thick.	Finish	L	E	W	
ST730256-3	Ø2.0 Rec. (Without Lance)	22-20 (0.3-0.5)	0.3	Brass Pre-Tin	18.5	7.4	4.8	D
ST730257-3		18-14 (0.75-2.27)	0.3	Brass Pre-Tin	18.5	7.4	4.8	
ST730172-1 ST730172-3	Ø2.0 Rec. (With Lance)	20-16 (0.5-1.25)	0.3	Brass Brass/Tin	16.0	6.0	3.05	E

EARTH CLIP TERMINAL



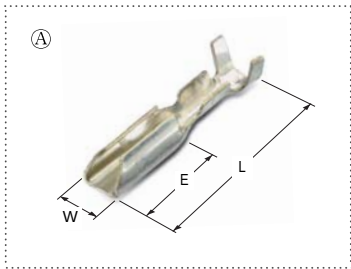
⦿ TERMINAL

Part No.	Wire Range		Tab		Material		Dimension(mm)			Type
	AWG	mm²	Thick.	Thick.	Finish		L	Є	W	
ST781315-1	20-18	0.5-085	1.5	0.5	SUS		19.7	9.0	2.6	Ⓐ
ST781316-1	20+20 18+18	1.0-1.7	1.5	0.5	SUS		19.7	9.0	2.6	
ST781321-1	20-18	0.5-085	0.4	0.5	SUS		19.7	9.0	2.6	Ⓑ
ST781322-1	20+20 18+18	1.0-1.7	0.4	0.5	SUS		19.7	9.0	2.6	

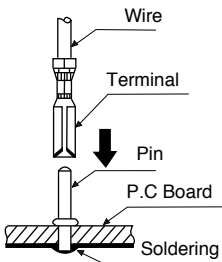
MISCELLANEOUS PRODUCT

EARTH CLIP

⦿ 090(Ø2.36) TERMINAL



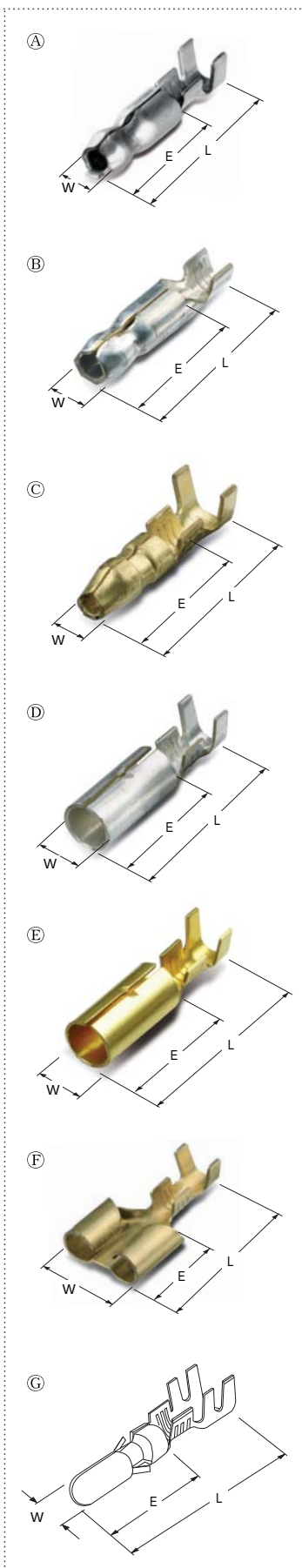
Part No.	Wire Range			Material		Dimension(mm)			Type
	AWG	mm²		Thick.	Finish	L	Є	W	
ST730017-3	24-20	0.2-0.56	Without Lance	0.25	Brass Pre-Tin	15.2	7.0	3.0	Ⓐ



SPECIFICATIONS
Current rating 3A AC, DC
Contact Res. 10mΩ/ Initial Max.

BULLET TERMINAL

Ø 180(Ø4.57) TERMINAL



Part No.	Description	Wire Range AWG(mm ²)	Material		Dimension(mm)			Type
			Thick.	Finish	L	€	W	
◇ ST750035-1	Ø4.57 Pin	20-14 (0.56-2.27)	0.5	Brass	18.8	10.8	4.6	A
◇ ST750035-3				Pre-Tin				
◇ ST750120-1	Ø4.57 Pin (Mold Type)	20-14 (0.56-2.27)	0.5	Brass	18.9	11.0	4.6	B
◇ ST750120-3				Pre-Tin				
◇ ST730029-1	Ø4.57 Rec.	20-14 (0.5-2.27)	0.4	Brass	19.8	10.7	5.2	D
ST730029-3				Pre-Tin				
◇ ST730056-1	Ø4.57 Rec. (Mold Type)	20-14 (0.56-2.27)	0.4	Brass	19.8	10.7	5.2	E
ST730056-3				Pre-Tin				

Ø 156(Ø3.96) TERMINAL

■ ST750318-1	Ø3.96 Pin	22-20 (0.3-0.5)	0.5	Brass	17.2	8.6	4.0	C
■ ST750318-3				Pre-Tin				
◇ ST750036-1		18-14 (0.85-2.27)	0.5	Brass				
■ ST750036-3				Pre-Tin				
■ ST750398-1	Ø3.96 Rec.	14-12 (2.0-3.0)	0.5	Brass	17.2	8.6	4.0	D
■ ST750398-3				Pre-Tin				
■ ST730317-1		22-20 (0.3-0.5)	0.4	Brass		17.6	6.5	4.7
■ ST730317-3				Pre-Tin				
◇ ST730018-1	Ø3.96 Rec.	18-14 (0.85-2.27)	0.4	Brass	17.6	6.5	4.7	D
■ ST730018-3				Pre-Tin				
■ ST730343-1		#18×20	0.4	Brass		17.6	6.5	4.7
■ ST730343-3		#18×20		Pre-Tin				
■ ST730282-1	Ø3.96 Rec. 2 Hole	#18×20	0.4	Brass	18.0	6.7	4.7	F
■ ST730282-3		#18×20		Pre-Tin				
◇ ST730177-1		18-14 (0.85-2.27)	0.4	Brass	20.2	9.0	11.0	F
■ ST730177-3				Pre-Tin				
ST730522-1	Ø3.96 Rec.	18-14 (0.85-2.27)	0.4	Brass	17.6	6.5	4.7	D
ST730522-3				Pre-Tin				

Ø 140(Ø3.56) TERMINAL

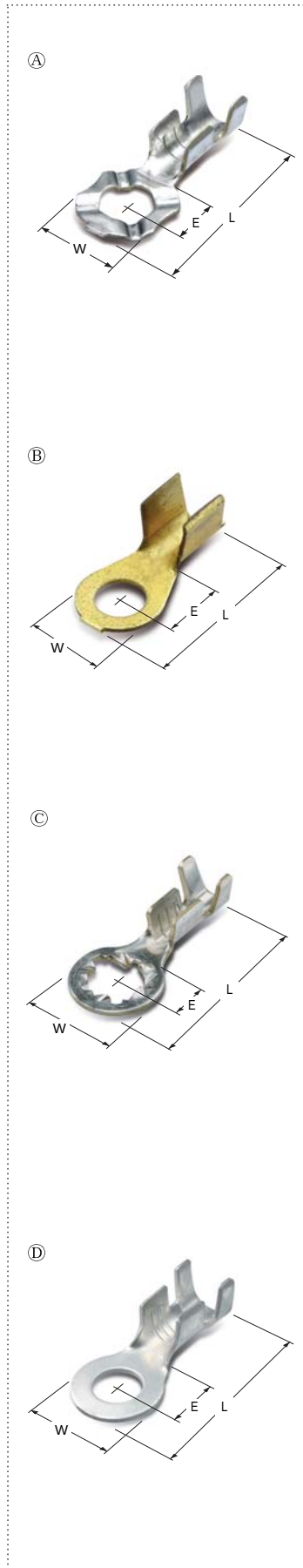
◇ ST750130-1	Ø3.56 Pin	20-14 (0.5-2.27)	0.5	Brass	15.8	7.2	3.6	C
ST750130-3				Pre-Tin				
◇ ST730060-1	Ø3.56 Rec.	20-14 (0.5-2.27)	0.35	Brass	18.0	6.7	4.0	D
ST730060-3				Pre-Tin				
ST730179-1	Ø3.56 Rec. 2 Hole	18-14 (0.85-2.27)	0.4	Brass	20.2	9.0	11.0	F
ST730179-3				Pre-Tin				

Ø 140(Ø3.56) TERMINAL

ST750426-3	Ø3.56 Pin	20-14 (0.5-2.27)	0.35	Brass	25.2	12.4	3.56	G
ST750427-3		14-10 (2.0-5.27)	0.35	Pre-Tin	25.2	12.4	3.56	

RING TERMINAL

RING TERMINAL



Part No.	Wire Range		Stud Size (mm)	Thick.	Material		Dimension(mm)			Type
	AWG	mm ²			Finish		L	U	W	
ST711003-3	26-24	0.25-0.3	2.5	0.25	Brass Pre-Tin		9.24	-	-	A
○ ST710176-1 ST710176-3	24-22	0.2-0.3	2.5	0.4	Brass Pre-Tin		10.9	3.5	5.2	
ST710080-3	18	0.85	3.2	0.5	Brass Pre-Tin		9.24	-	6.0	B
● ST710390-1 ■ ST710390-3	20-18	0.5-0.89	3.7	0.4	Brass Pre-Tin		9.5	4.0	6.0	
ST710489-1 ST710489-3	20-14	0.5-2.0	4.3	0.5	Brass Pre-Tin		16.75	5.8	7.5	C
ST710944-3 ST710945-3 ST710946-3 ST710947-3	18+18 22-20 20-18 16-14	1.5 0.3-0.5 0.5-0.75 1.25-2.0	4.3	0.5	Pre-Tin		16.6	5.8	7.5	
○ ST710151-1 ○ ST710151-2	24-20	0.2-0.3	2.5	0.25	Pre-Tin Brass/Tin		9.3	2.9	4.6	D
● ST710354-1 ● ST710354-2	20-18	0.3-0.89	2.5	0.25	Brass Brass/Tin		9.3	2.9	4.6	
○ ST710011-1 ○ ST710011-2	24-22	0.2-0.3	2.5	0.3	Brass Brass/Tin		9.3	2.9	4.6	E
● ST710008-1 ● ST710008-2	22-18	0.3-0.89	2.7	0.3	Brass Brass/Tin		11.3	3.8	5.0	
● ST710091-1 ■ ST710091-3	22-18	0.3-0.89	2.7	0.5	Brass Pre-Tin		11.3	3.8	5.0	F
● ST710079-1 ■ ST710079-2	22-18	0.3-0.89	3.03	0.3	Brass Brass/Tin		11.3	3.8	5.0	
○ ST710388-1 ST710388-3	22-20	0.3-0.56	3.2	0.3	Brass Pre-Tin		16.5	6.85	7.0	G
● ST710071-1 ■ ST710071-2	18-14	0.81-2.27	3.2	0.3	Brass Brass/Tin		16.75	5.8	7.5	
○ ST710227-1 ST710227-3	24	0.2	3.2	0.4	Brass Pre-Tin		11.3	3.8	5.0	H
● ST710010-1 ■ ST710010-3	22-18	0.3-0.89	3.2	0.4	Brass Pre-Tin		11.3	3.8	5.0	
○ ST710124-1 ○ ST710124-2	18-14	0.81-2.27	3.2	0.4	Brass Brass/Tin		16.75	5.8	7.5	I
● ST710350-1 ■ ST710350-3	22-18	0.3-0.89	3.2	0.5	Brass Pre-Tin		16.75	5.8	7.5	
● ST710132-1 ■ ST710132-3	20-18	0.56-0.89	3.2	0.5	Brass Pre-Tin		11.5	3.5	6.0	J
● ST710290-1 ■ ST710290-3	20-18	0.56-0.89	3.2	0.5	Brass Pre-Tin		11.25	4.0	5.5	
● ST710086-1 ■ ST710086-3	18	0.85	3.2	0.5	Brass Pre-Tin		11.75	4.0	6.5	K
● ST710094-1 ■ ST710094-3	18-14	0.81-2.27	3.2	0.5	Brass Pre-Tin		16.75	5.8	7.5	
● ST710209-1 ● ST710209-2	18-14	0.81-2.27	3.2	0.5	Brass Brass/Tin		19.25	7.5	8.5	L

RING TERMINAL

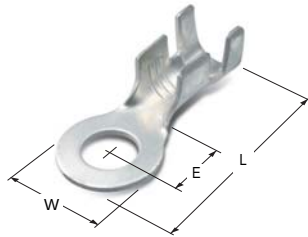
RING TERMINAL



Part No.	Wire Range		Stud Size (mm)	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
● ST710345-1	18	0.85	3.6	0.5	Brass	10.2	3.0	6.0	
■ ST710345-3					Pre-Tin				
● ST710229-1	18-14	0.81-2.27	3.7	0.3	Brass	16.75	5.8	7.5	
● ST710229-2					Brass/Tin				
● ST710391-1	18	0.85	3.7	0.5	Brass	11.75	4.0	6.5	
■ ST710391-3					Pre-Tin				
● ST710210-1	18-14	0.81-2.27	3.7	0.5	Brass	19.25	7.5	8.5	
● ST710210-2					Brass/Tin				
● ST710389-1	22-20	0.3-0.56	4.3	0.3	Brass	16.5	6.85	7.0	
■ ST710389-3					Pre-Tin				
○ ST710230-1	20-18	0.56-0.89	4.3	0.3	Brass	11.75	4.0	6.5	
○ ST710230-2					Brass/Tin				
● ST710082-1	18-14	0.81-2.27	4.3	0.3	Brass	16.75	5.8	7.5	
● ST710082-2					Brass/Tin				
● ST710239-1	20-18	0.56-0.89	4.3	0.4	Brass	16.75	5.8	7.5	
● ST710239-2					Brass/Tin				
● ST710127-1	20-14	0.56-2.27	4.3	0.4	Brass	16.75	5.8	7.5	
● ST710127-2					Brass/Tin				
● ST710158-1	20-18	0.56-0.89	4.3	0.5	Brass	16.75	5.8	7.5	
■ ST710158-3					Pre-Tin				
● ST710087-1	18	0.85	4.3	0.5	Brass	11.75	4.0	6.5	
■ ST710087-3					Pre-Tin				
● ST710095-1	18-14	0.81-2.27	4.3	0.5	Brass	16.75	5.8	7.5	
■ ST710095-3					Pre-Tin				
● ST710211-1	18-14	0.81-2.27	4.3	0.5	Brass	19.25	7.5	8.5	
● ST710211-2					Brass/Tin				
● ST710289-1	18-14	0.81-2.27	4.3	0.6	Brass	19.25	7.5	8.5	
● ST710289-2					Brass/Tin				
● ST710226-1	10-8	5.0-8.0	4.3	0.8	Brass	24.0	8.0	10.0	
● ST710226-2					Brass/Tin				
● ST710155-1	20-14	0.56-2.27	5.1	0.5	Brass	16.6	5.8	7.5	
■ ST710155-3					Pre-Tin				
○ ST710438-1	20 + 20 or 18 + 22 18 + 20 or 18 + 18 16 + 22 or 18 + 20		5.1	0.5	Brass	16.75	5.8	7.5	
ST710438-3					Pre-Tin				
● ST710197-1	18-14	0.81-2.27	5.3	0.5	Brass	19.25	7.5	8.5	
● ST710197-2					Brass/Tin				
● ST710348-1	18	0.85	5.4	0.6	Brass	19.5	7.5	10.0	
● ST710348-2					Brass/Tin				
ST710702-1	14-12	2.0-3.0	5.4	0.8	Brass	26	9.0	12.0	
ST710702-2					Brass/Tin				
● ST710237-1	10-8	5.0-8.0	5.4	0.8	Brass	24.0	8.0	10.0	
● ST710237-2					Brass/Tin				
● ST710246-1	12-10	3.0-5.3	5.4	1.0	Brass	24.0	8.0	10.0	
● ST710246-2					Brass/Tin				
○ ST710264-1	6-5	13.3-16.7	5.4	1.2	Brass	30.0	9.0	10.0	
○ ST710264-2					Brass/Tin				
○ ST710235-1		22 × 2 20 × 2 20 + 20	6.4	0.4	Brass	24.0	9.0	12.0	
○ ST710235-2					Brass/Tin				
● ST710319-1	22-20	0.3-0.56	6.4	0.6	Brass	24.0	9.0	12.0	
■ ST710319-3					Pre-Tin				

RING TERMINAL

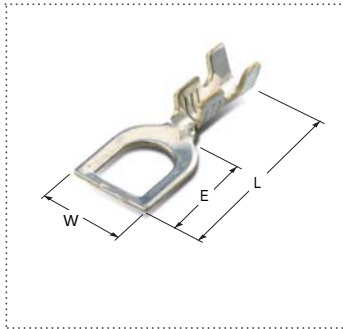
RING TERMINAL



Part No.	Wire Range		Stud Size (mm)	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	€	W	
● ST 710236-1	18-14	0.85-2.27	6.4	0.6	Brass	24.0	9.0	12.0	
■ ST 710236-3					Pre-Tin				
ST 710811-1	16	1.25	6.4	0.8	Brass	22.0	9.0	12.0	
ST 710811-2					Brass/Tin				
● ST 710262-1	14-12	2.0-3.0	6.4	0.8	Brass	26.0	9.0	12.0	
● ST 710262-2					Brass/Tin				
● ST 710447-1	12-10	3.0-5.3	6.4	0.8	Brass	26.0	9.0	12.0	
● ST 710447-2					Brass/Tin				
● ST 710384-1	12-10	3.0-5.3	6.4	1.0	Brass	29.0	12.0	12.0	
● ST 710384-2					Brass/Tin				
ST 710546-1	10-8	5.0-8.0	6.4	1.0	Brass	29.0	12.0	12.0	
ST 710546-2					Brass/Tin				
○ ST 710446-1	10+10	5.3+5.3	6.4	1.2	Brass	35.7	11.7	14.0	
○ ST 710446-2					Brass/Tin				
○ ST 710450-1	10+10	5.3+5.3	6.4	1.2	Brass	30.0	11.0	14.0	
○ ST 710450-2					Brass/Tin				
ST 710611-1	10+10	5.0+5.0	6.4	1.2	Brass	34.7	17.7	12.0	
ST 710611-2					Brass/Tin				
ST 710611-3					Pre-Tin				
● ST 710286-1	18-14	0.85-2.27	8.4	0.6	Brass	30.0	11.0	16.0	
■ ST 710286-3					Pre-Tin				
● ST 710448-1	16-14	1.25-3.0	8.4	0.8	Brass	30.0	11.0	16.0	
● ST 710448-2					Brass/Tin				
● ST 710285-1	12-10	3.0-5.3	8.4	0.8	Brass	30.0	11.0	16.0	
● ST 710285-2					Brass/Tin				
● ST 710263-1	10-8	4.5-8.4	8.4	1.0	Brass	33.0	12.0	16.0	
● ST 710263-2					Brass/Tin				
ST 710592-1	10+10	5.3+5.3	8.4	1.2	Brass	36.7	19.7	16.0	
ST 710592-2					Brass/Tin				
● ST 710288-1	18-14	0.85-2.27	10.4	0.6	Brass	33.0	13.0	20.0	
■ ST 710288-3					Pre-Tin				
● ST 710287-1	12-10	3.0-5.3	10.4	0.8	Brass	33.0	13.0	20.0	
● ST 710287-2					Brass/Tin				

SPADE TERMINAL

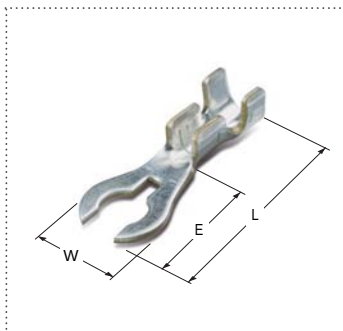
SPADE TERMINAL



Part No.	Wire Range		Stud Size (mm)	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
■ ST720007-1	22-20	0.3-0.56	5.2	0.5	Brass	17.0	5.9	8.0	
■ ST720007-3					Pre-Tin				

KEY-HOLE & TAB TERMINAL

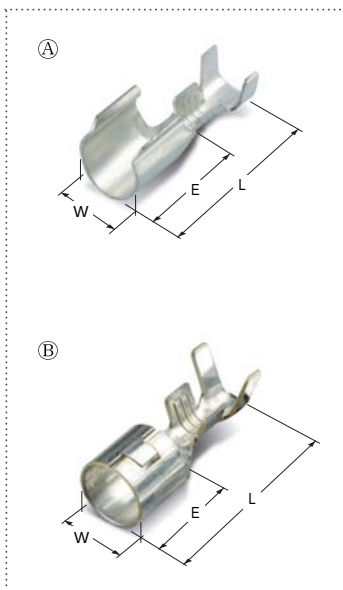
KEY-HOLE TERMINAL



Part No.	Wire Range		Stud Size (mm)	Material		Dimension(mm)			Type
	AWG	mm ²		Thick.	Finish	L	E	W	
ST780295-1	18-16	0.81-1.3	4.4	0.8	Brass	21.0	8.0	8.2	
ST780295-3					Brass/Tin				

FUSE HOLDER TERMINAL

FUSE HOLDER TERMINAL



Part No.	Wire Range		Material		Dimension(mm)			Type
	AWG	mm²	Thick.	Finish	L	E	W	
ST780242-1	Ø6.0	18-16	0.3	Brass	18.0	10.7	5.4	Ⓐ
ST780242-2		AVSS 0.85-1.25		Brass/Tin				
ST780328-1	Ø6.0	14-12	0.3	Brass	18.0	10.7	6.5	
ST780328-2		AVS 2.0-3.0		Brass/Tin				
■ ST781223-3	Ø6.0	18-16	0.3	Copper Alloy	18.0	10.7	6.5	
		AVSS0.85-1.25		Pre-Tin				
ST780858-3	Ø6.5	16-14	0.4	Brass	17.7	8.7	7.0	Ⓑ
		AVSS1.25-2.0		Pre-Tin				

ELECTRIC PRODUCTS
(DISPLAY/MOBILE)
350~372page

ELECTRIC PRODUCTS

DISPLAY PRODUCTS



HDMI SERIES



K503-050-19 K500014-19 K500015-19 K500032-19 K500050-19 K500051-19 K500052-19

LED LIGHTING SERIES



K500046-01 K500046-02 K500059-02 K500060-02 K500065-01 K500066-01

MICRO USB SERIES



K500018-05 K500003-05 K500045-05 KD31E-065-05 K500084-04

SIM CARD CONNECTOR SERIES



K11C-254-08 K500016-08 K500023-08 K500033-08

BATTERY CONNECTOR SERIES



KA33B-240-04 KA32B-200-04 K500001-04 K500012-03 K500013-04

EARJACK SERIES



K500005-06 K500007-06 K500046-06 K500073-05 K500074-05

C-CLIP SERIES



K500008-01 K500020-01 K50004101 K500053-01 K500058-01 K500068-01 K500069-01

MOBILE PRODUCTS

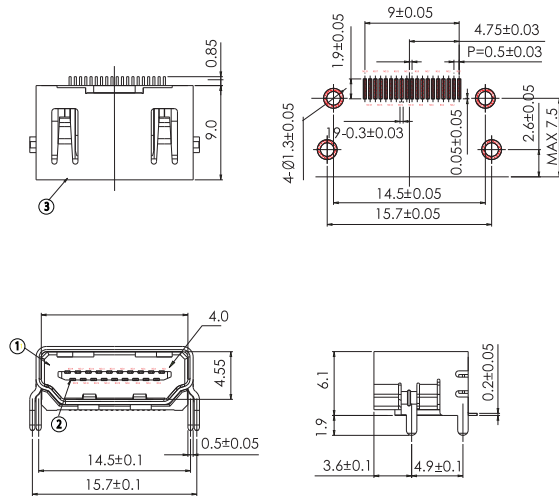


HDMI SERIES

KS03-050-19



HDMI ANGLE TYPE (H6.1)



MATERIAL

I / No	DESCRIPTION	MATERIAL
1	Case	LCP
2	Guide Insulator	PA 46
3	Terminal A	Phosphor Bronze
4	Terminal B	Phosphor Bronze
5	Shell	Phosphor Bronze

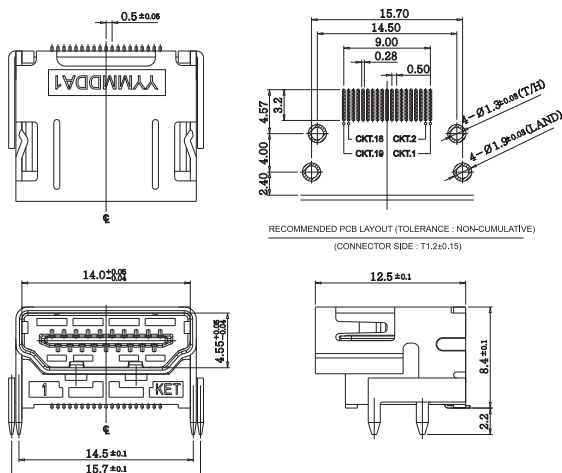
SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	AC 40V
Current Rating	0.5A
Operating Temperature	-20 °C ~ +85 °C
Contact Resistance	30m Ω Max
Withstanding Voltage	AC 500V
Insulation Resistance	100M Ω Min
Signals Time Domain Impedance	100 Ω ±15%
Plug Insertion Force	4.5Kg Max
Plug Withdrawal Force	4.0Kg Min

K500014-19



HDMI ANGLE TYPE (H8.4)



MATERIAL

LIST OF MATERIAL	
Insulator	LCP
Contact A, B	Brass
Metal Shell	Copper Alloy
Plating	Contact : Au over Ni Metal Shell : Sn

SPECIFICATIONS

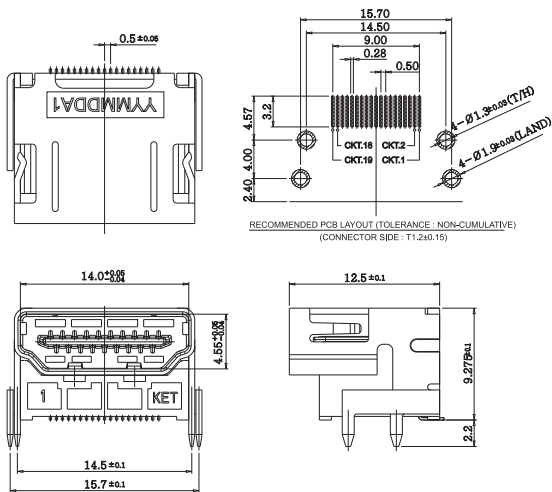
ITEM	SPECIFICATIONS
Voltage Rating	AC /DC 40V
Current Rating	0.5A / Pin
Operating Temperature	-20 °C ~ +85 °C
BDV	AC 500V
Contact Resistance	30m Ω Max

HDMI SERIES

K500015-19



HDMI ANGLE TYPE (H9. 275)



MATERIAL

LIST OF MATERIAL

Insulator	LCP
Contact A, B	Brass
Metal Shell	Copper Alloy
Plating	Contact : Au over Ni Metal Shell : Sn

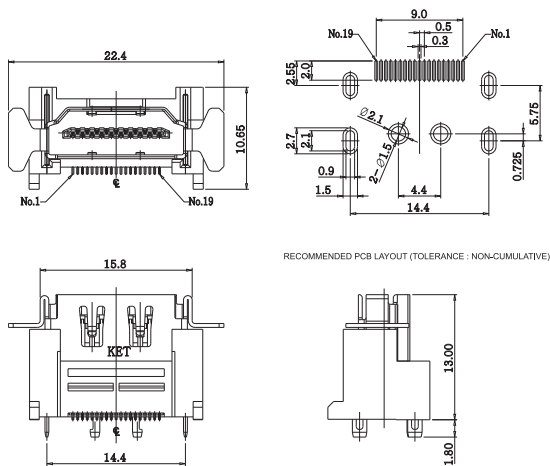
SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	AC /DC 40V
Current Rating	0.5A / Pin
Operating Temperature	-20 °C ~ +85 °C
BDV	AC 500V
Contact Resistance	30m Ω Max

K500032-19



HDMI STRIGHT WING TYPE (INSERT)



MATERIAL

LIST OF MATERIAL

Insulator	LCP
Contact A, B	Copper Alloy
Metal Shell	SUS
Plating	Contact : Ni Plating Metal Shell : Sn

SPECIFICATIONS

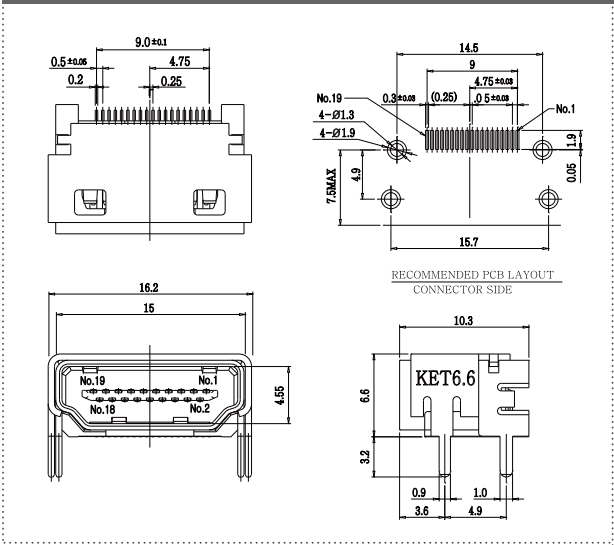
ITEM	SPECIFICATIONS
Voltage Rating	AC /DC 40V
Current Rating	0.5A / Pin
Operating Temperature	-20 °C ~ +85 °C
BDV	AC 500V
Contact Resistance	30m Ω Max

HDMI SERIES

K500050-19



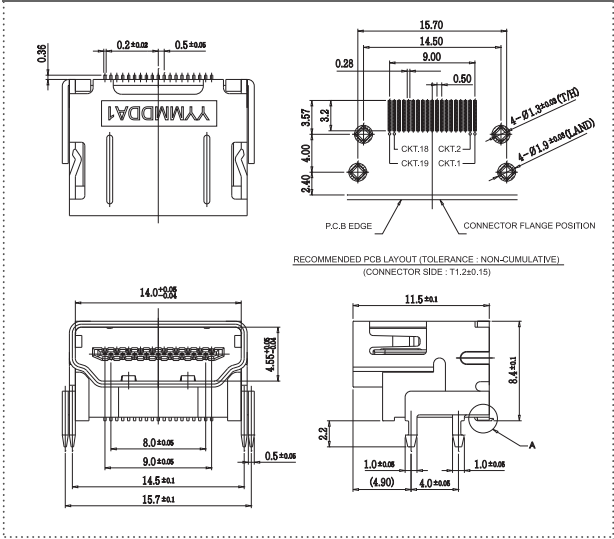
HDMI ANGLE TYPE



K500051-19



HDMI ANGLE INSERT TYPE(H8.4)



MATERIAL

LIST OF MATERIAL

Insulator	LCP
Terminal A	P- Bronze
Terminal B	P- Bronze
Shell	SPC1
Shell Cover	P- Bronze
Plating	Contact : Au Plating over Ni Metal Shell : Sn Plating Shell Cover : Sn Plating over Ni

SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	AC /DC 40V
Current Rating	0.5A / Pin
Operating Temperature	-20℃ ~ +85℃
BDV	AC 500V
Contact Resistance	30mΩ Max

MATERIAL

LIST OF MATERIAL

Insulator	LCP
Contact A, B	Brass
Shell	SUS
Plating	Contact : Au Plating over Ni Shell : Ni Plating

SPECIFICATIONS

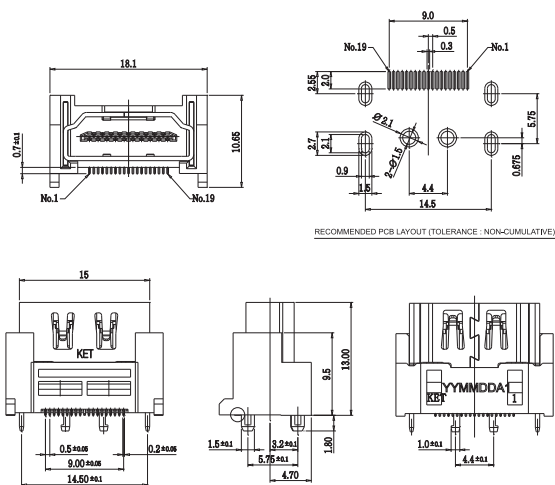
ITEM	SPECIFICATIONS
Voltage Rating	AC /DC 40V
Current Rating	0.5A / Pin
Operating Temperature	-20℃ ~ +85℃
BDV	AC 500V
Contact Resistance	30mΩ Max

HDMI SERIES

K500052-19



HDMI STRAIGHT NW TYPE



MATERIAL

LIST OF MATERIAL

Insulator	LCP
Contact A, B	Brass
Metal Shell	SUS
Plating	Contact : Au Plating over Ni Metal Shell : Ni Plating

SPECIFICATIONS

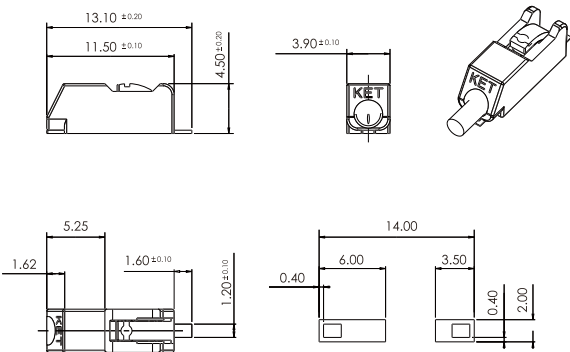
ITEM	SPECIFICATIONS
Voltage Rating	AC /DC 40V
Current Rating	0.5A / Pin
Operating Temperature	-20 °C ~ +85 °C
BDV	AC 500V
Contact Resistance	30m Ω Max

LED LIGHTING SERIES

K500064-01



POKE-IN 1Pin



RECOMMENDED PCB LAYOUT



CHARACTERISTICS

- Application : LED lighting
- Poke-in type (1Pin, 2Pin)
- Color : Natural
- Insert and withdraw by pushing the button
- Minimized shade due to 4.5 mm height
- SMT type, Connection to SMPS
- UL, cUL, VDE

MATERIAL & PLATING

POKE - IN TYPE	
Insulator	LCP
Contact	Copper Alloy
Contact Plating	Tin Plating over Ni
Size	1Pin 3.9(W)X13.1(L)X4.5(H) 2Pin 7.9(W)X13.1(L)X4.5(H)

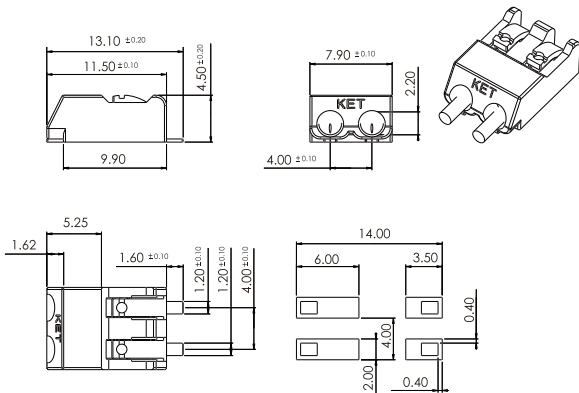
SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	AC / DC 250V
Current Rating	AWG18 - 9A
	AWG20 - 7A
	AWG22 - 5A
	AWG24 - 3A
Operating Temperature	-25 ℃ ~ -130 ℃
Flammability Rating Per	UL94 Vo
Insertion and Retension Force	Max 1.5Kgf / Min 3.0Kgf
Available Wire	Solid Type AWG 18,20,22,24
Strip Length	7~8mm

K500064-02



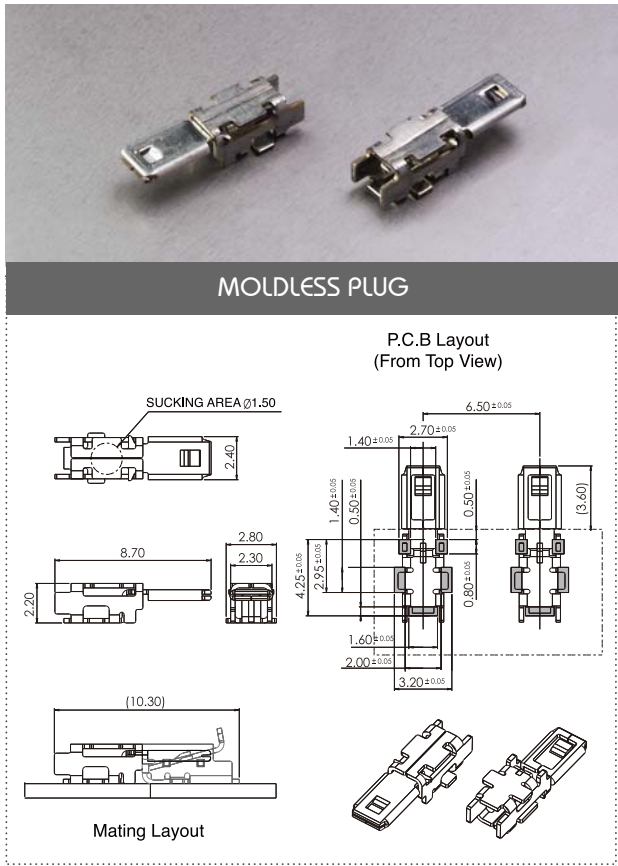
POKE-IN 2Pin



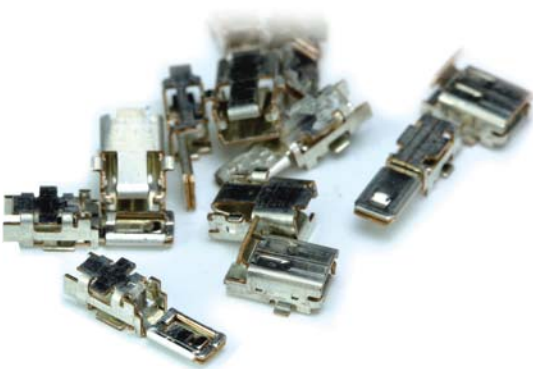
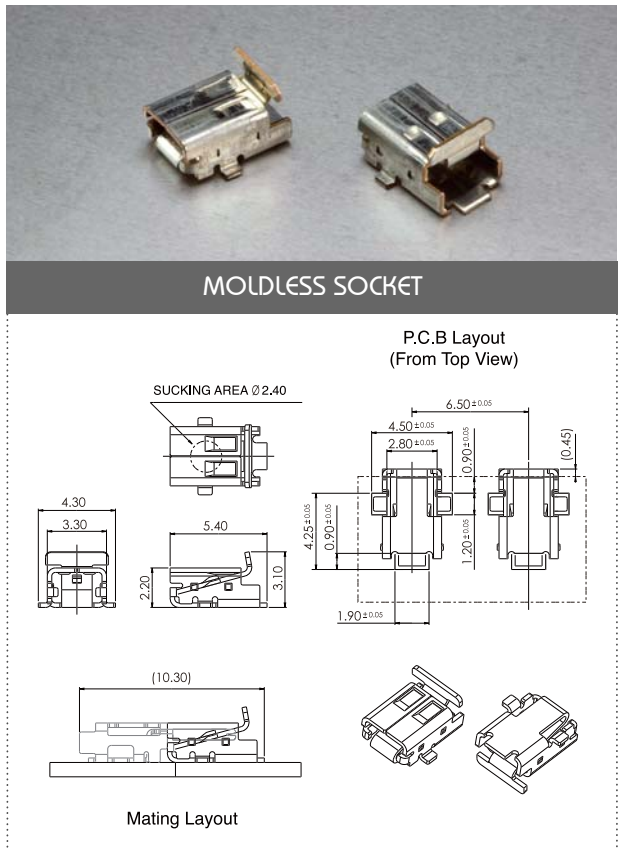
RECOMMENDED PCB LAYOUT

LED LIGHTING SERIES

K500065-01



K500066-01



CHARACTERISTICS

- Application : LED lighting
- Cost competitive advantage due to moldless type
- B to B type, SMT type, Locking structure

MATERIAL & PLATING

MOLDLESS TYPE

PLUG / SOCKET

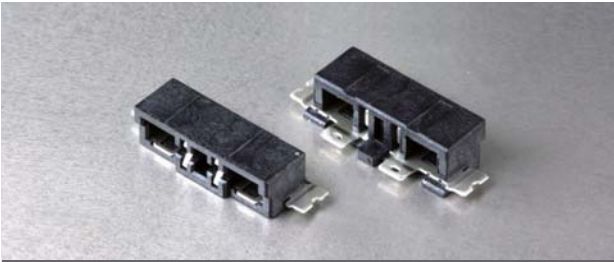
Contact	Copper Alloy
Contact Plating	Tin Plating
Size	PLUG 2.8(W)X8.7(L)X2.2(H) SOCKET 4.3(W)X5.4(L)X3.1(H)

SPECIFICATIONS

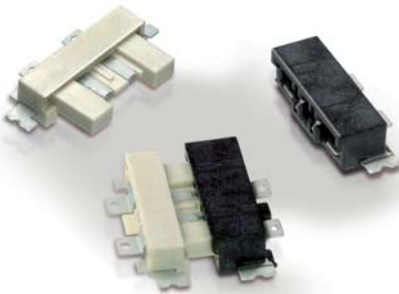
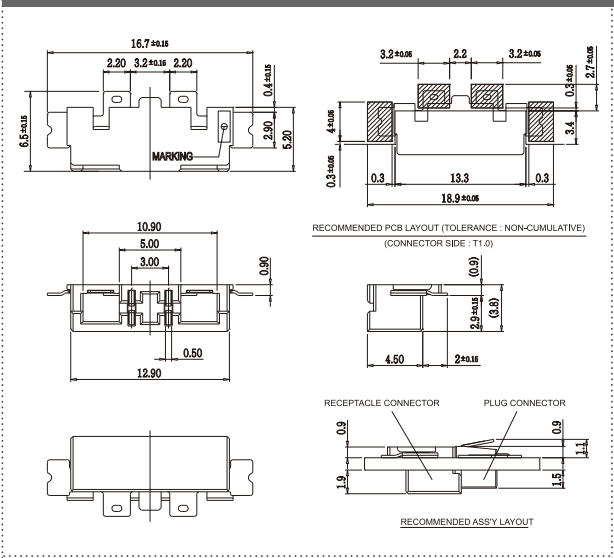
ITEM	SPECIFICATIONS
Voltage Rating	AC / DC 100V
Current Rating	1A
Operating Temperature	-55 °C ~ 85 °C
Mating and Unmating force	Max 1.0Kgf / Max 0.1Kgf

LED LIGHTING SERIES

K500059-02



SS LED BAR SOCKET



CHARACTERISTICS

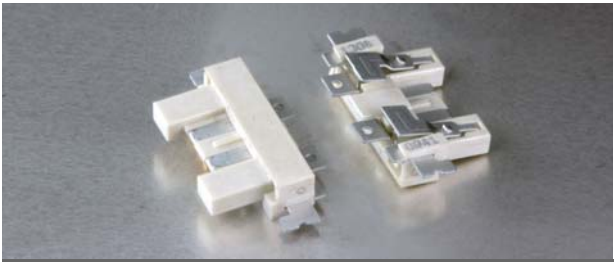
- Application : LED lighting
- SMT type
- Locking structure
- UL94 V-0

MATERIAL & PLATING

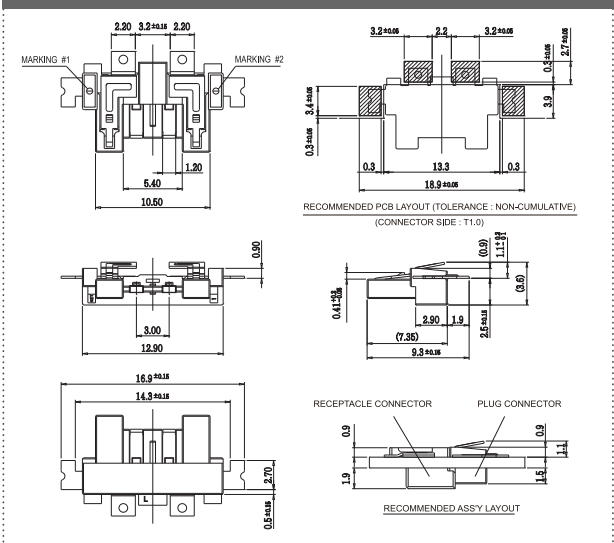
LIST OF MATERIAL

Insulator	LCP
Contact	P-Bronze
Contact Plating	Sn over Ni

K500060-02



SS LED BAR PLUG



SPECIFICATIONS

ITEM	SPECIFICATIONS
Current Rating	AC / DC 1.0A
Voltage Rating	AC / DC 100V
Contact Resistance	30m Ω Max.
Withstanding Voltage	AC 5,000V / 1Min
Operating Temperature	-45 °C ~ +105 °C
Storage Environment	20 °C ±15 °C, -60% RH
Insulation Force	1.0Kgf / Max
Unlocking Withdrawal Force	1.0Kgf / Max

SIM CARD CONNECTOR SERIES

FEATURES

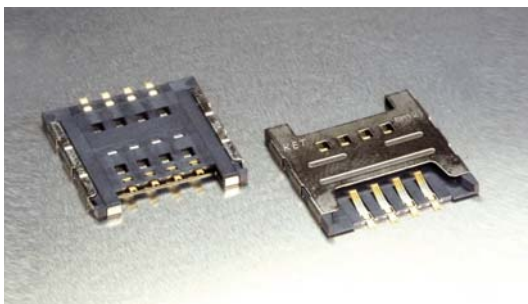
1. Applicable to both SIM (Subscriber Identity Module) Card used by European Standard GSM PHONE and UIM(User Identity Module) Card used by CDMA (3G) PHONE.
2. Compatibility
Slim connectors are made for SIM/UIM Card appropriate to GSM Standard(11.11).
Diversifying products% size so as to make mobile phones slim.



SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	AC/DC 30V
Current Rating	1A / Pin
Operating Temperature	-30 °C ~ +85 °C
BDV	500V AC for 1minute
Insulation Resistance	1,000M Ω Min
Contact Resistance	50m Ω Max
Durability	1,000 cycle

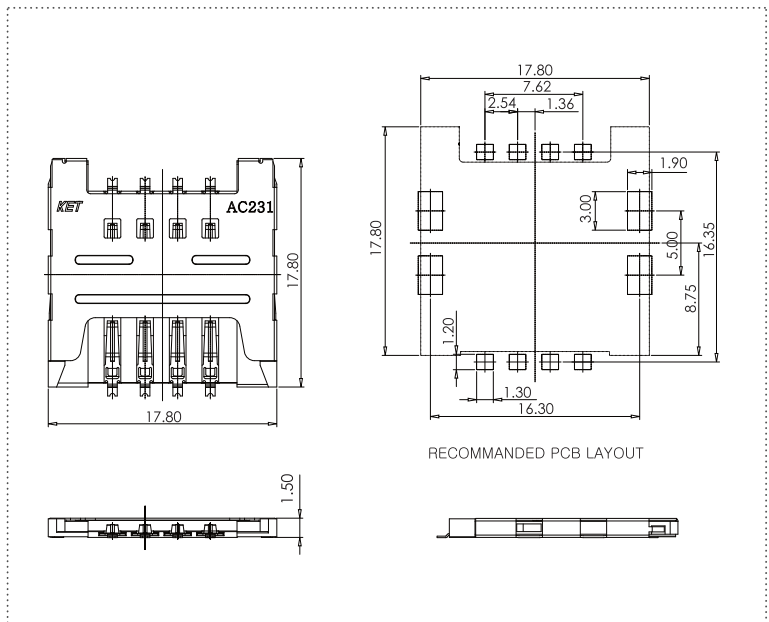
KI11C-254-08



SIM SOCKET(1.5t)

LIST OF MATERIALS

Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Plating	Contact : Au over Ni Metal Shell : Ni



SIM CARD CONNECTOR SERIES

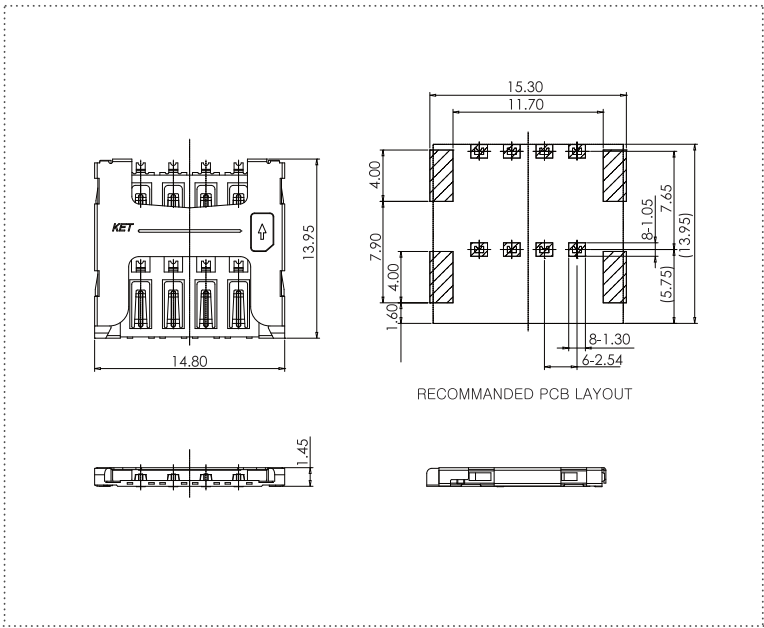
K500016-08



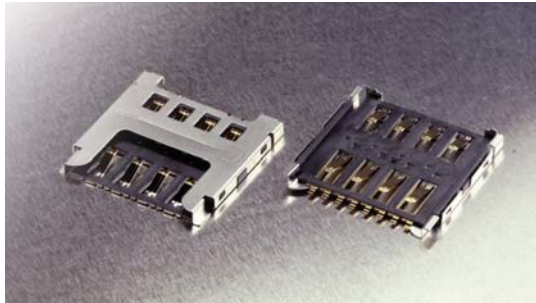
MICRO SIM SOCKET(1.45t)

LIST OF MATERIALS

Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Plating	Contact : Au over Ni
	Metal Shell : Ni



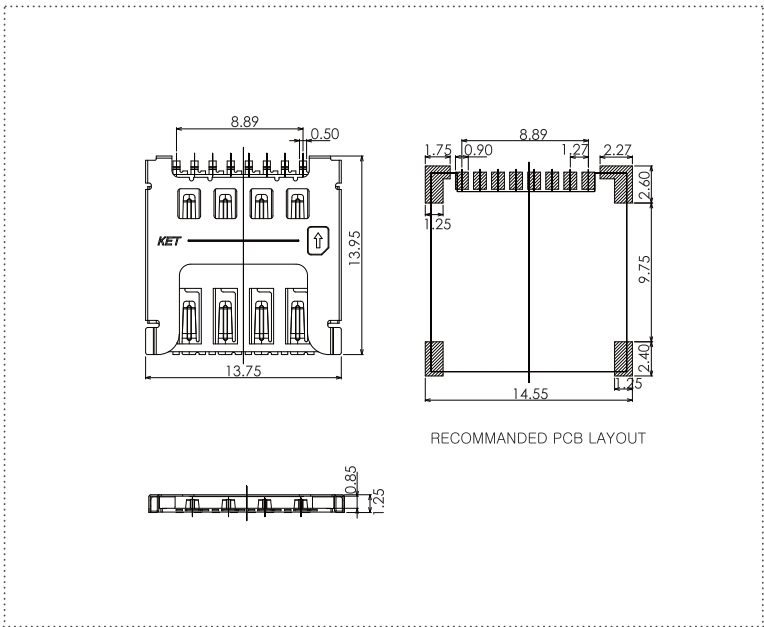
K500033-08



MICRO SIM SOCKET(1.25t)

LIST OF MATERIALS

Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Plating	Contact : Au over Ni
	Metal Shell : Ni



SIM CARD

SD CARD CONNECTOR SERIES

FEATURES

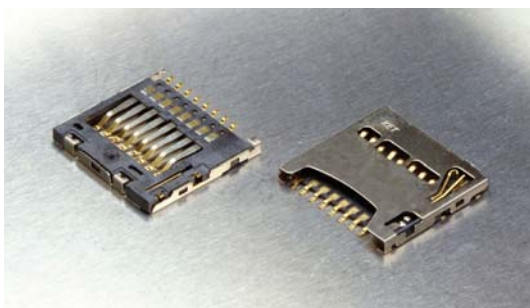
1. Low Height Type for Slim Phone(HI.28)
2. Card Detection Switch Type.
3. Card In/Out Type : Push-Pull Type.



SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	AC 10V
Current Rating	0.5A / Pin
Operating Temperature	-30 °C ~ +85 °C
BDV	500V AC for 1minute
Insulation Resistance	1,000M Ω Min
Contact Resistance	100m Ω Max
Durability	5,000 cycle

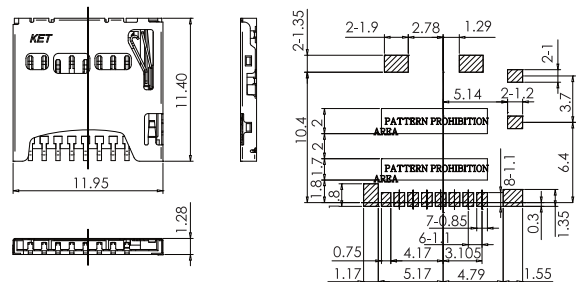
K500023-08



Micro SD 1.28T

LIST OF MATERIALS

Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Plating	Contact : Au over Ni
	Metal Shell : Ni



RECOMMENDED PCB LAYOUT

BATTERY CONNECTOR SERIES

FEATURES

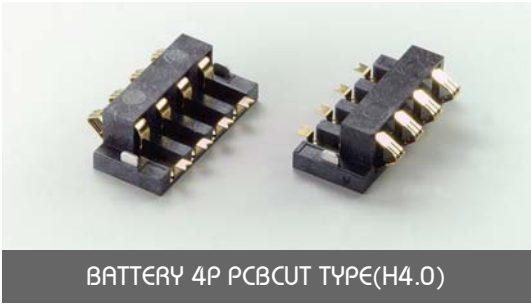
- 1. Designed to be used in mobile phones power supplier.
Providing a variety of shapes and the number of pins in accordance with customers product specifications.
- 2. Compatibility
Diversifying products size so as to make mobile phone slim

SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	DC 100V
Current Rating	3A / PIN
Operating Temperature	-30℃ ~ +85℃
BDV	500V AC for 1minute
Insulation Resistance	1,000M Ω Min
Contact Resistance	50m Ω Max
Durability	5,000 cycle



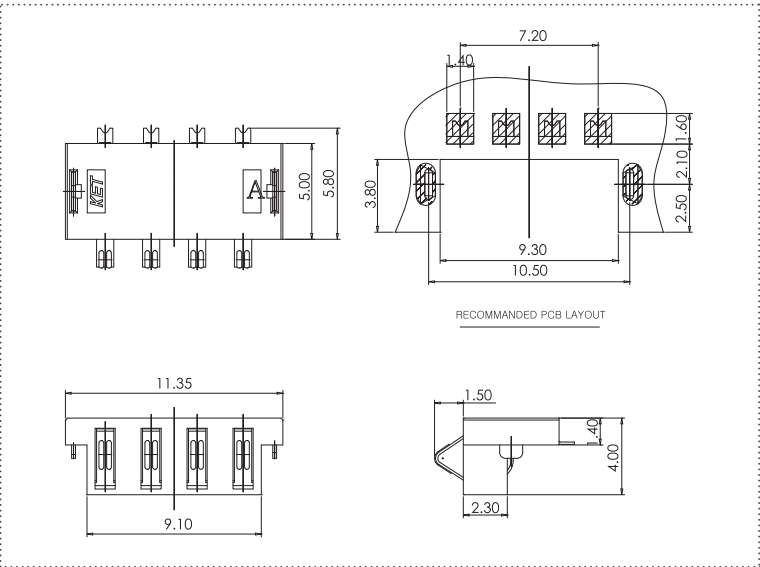
KA33B-240-04



BATTERY 4P PCBCUT TYPE(H4.0)

LIST OF MATERIALS

Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Plating	Contact : Au over Ni Metal Shell : Sn



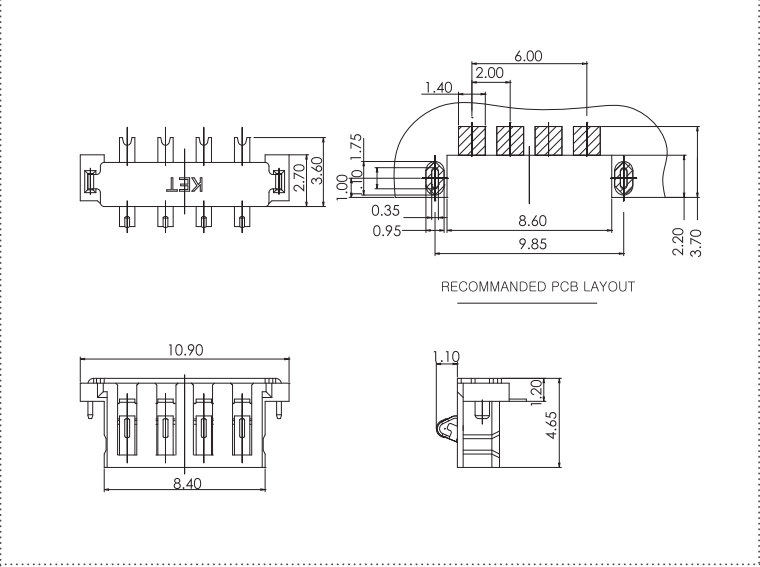
KA32B-200-04



BATTERY 4P PCBCUT TYPE(H4.65)

LIST OF MATERIALS

Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Plating	Contact : Au over Ni Metal Shell : Sn



BATTERY CONNECTOR SERIES

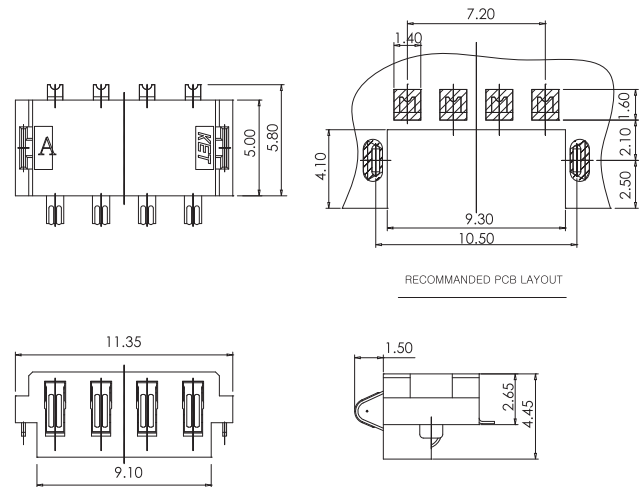
K500001-04



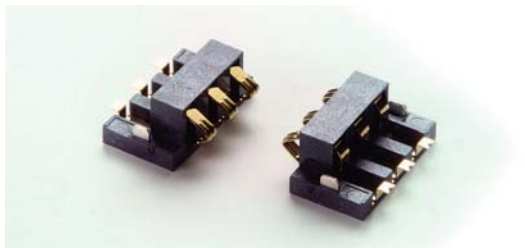
BATTERY 4P PCBCUT TYPE(H4.45)

LIST OF MATERIALS

Insulator	Nylon
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Plating	Contact : Au plating over nickel Metal Shell : Sn



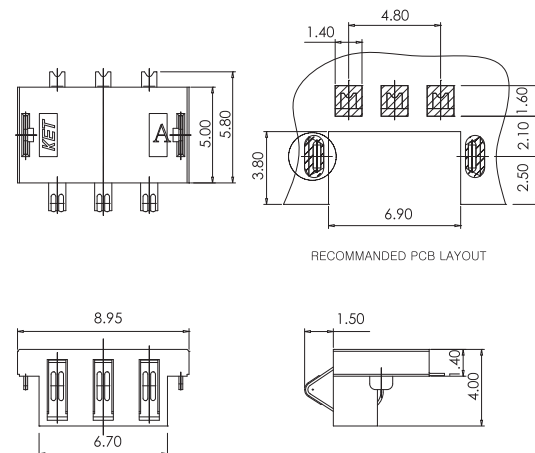
K500012-03



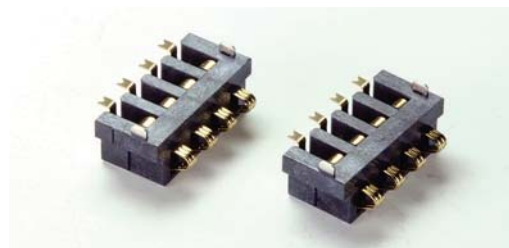
BATTERY 3P PCBCUT TYPE(H4.0)

LIST OF MATERIALS

Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Plating	Contact : Au over Ni Metal Shell : Sn



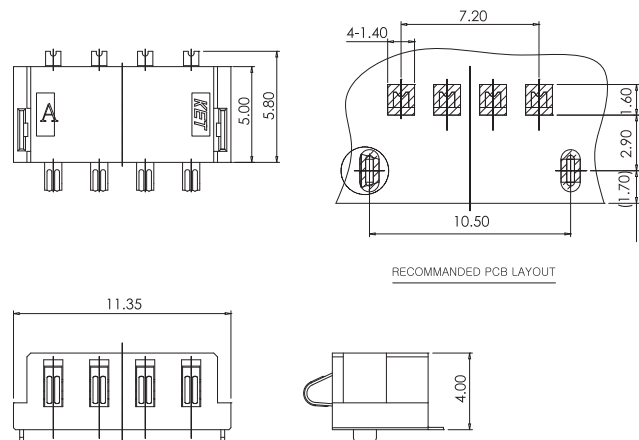
K500013-04



BATTERY 4P SMT TYPE(H4.0)

LIST OF MATERIALS

Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Plating	Contact : Au over Ni Metal Shell : Sn



EARJACK SERIES

FEATURES

- 1. SMART PHONE “R” Type Products.
- 2. Lead-Free/Halogen Free
- 3. SMD Type : Top Mount Type / Pcbcut Type.
- 4. Compatibility : $\phi 3.5\text{mm}$, 3Pole and 4Pole

SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	AC 100V
Current Rating	0.5A / Pin
Operating Temperature	-30℃ ~ +85℃
BDV	500V AC for 1minute
Insulation Resistance	1,000M Ω Min
Contact Resistance	50m Ω Max
Durability	10,000 cycle



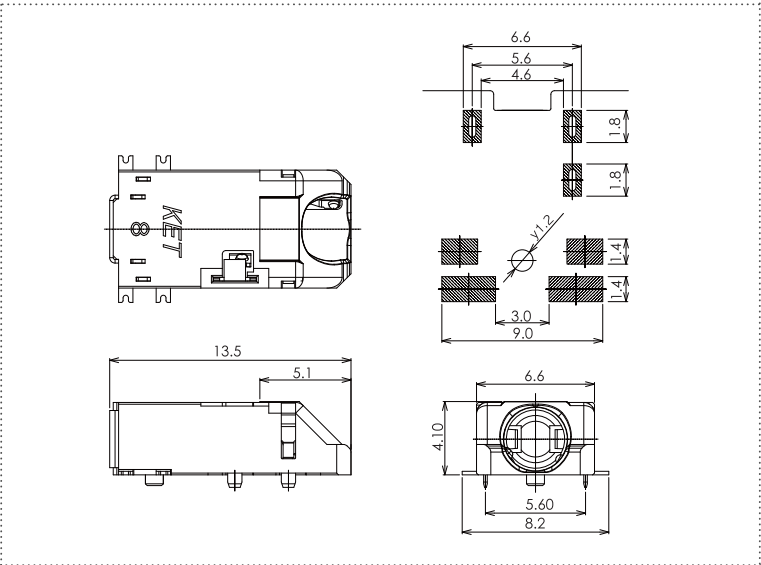
K500005-06



$\phi 3.5$ Earjack Socket (Normal)

LIST OF MATERIALS

Insulator	Nylon
Signal Contact	Copper Alloy
Plating	Contact : Au over Ni



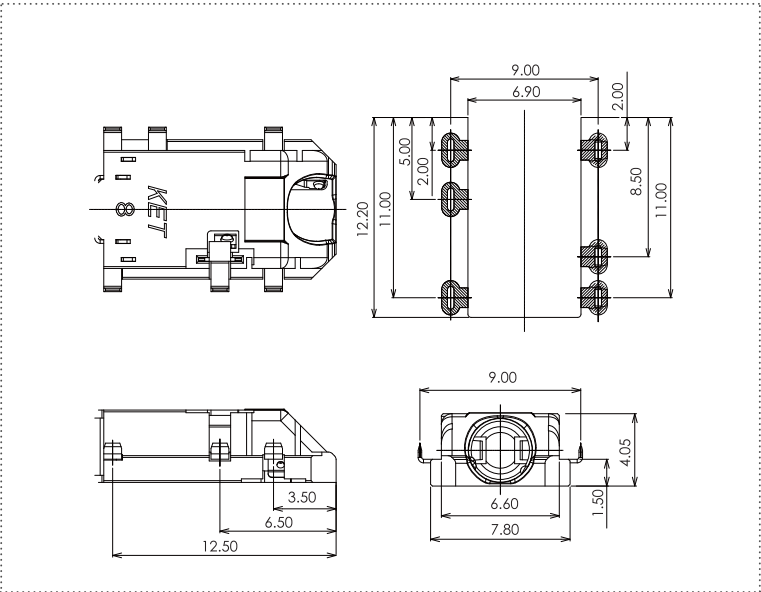
K500007-06



$\phi 3.5$ Earjack Socket (Mid-Wing)

LIST OF MATERIALS

Insulator	Nylon
Signal Contact	Copper Alloy
Plating	Contact : Au over Ni



EARJACK SERIES

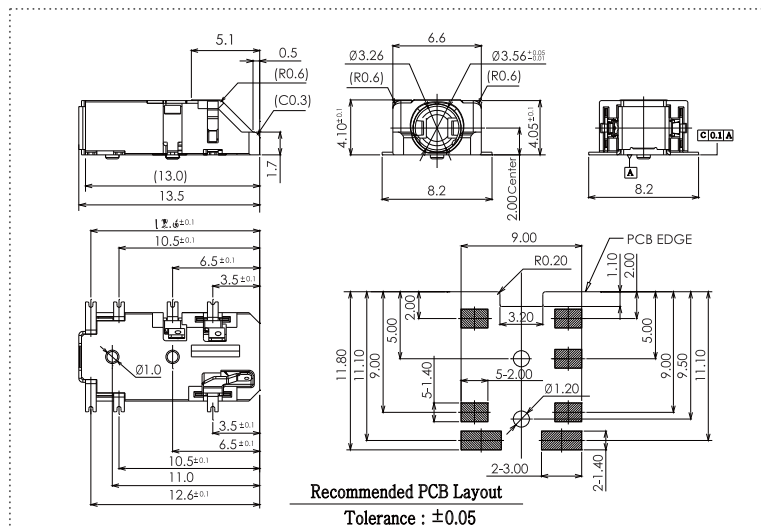
K500046-06



φ3.5 Earjack Socket (ALL SMT)

LIST OF MATERIALS

Insulator	Nylon
Signal Contact	Copper Alloy
Plating	Contact : Au over Ni



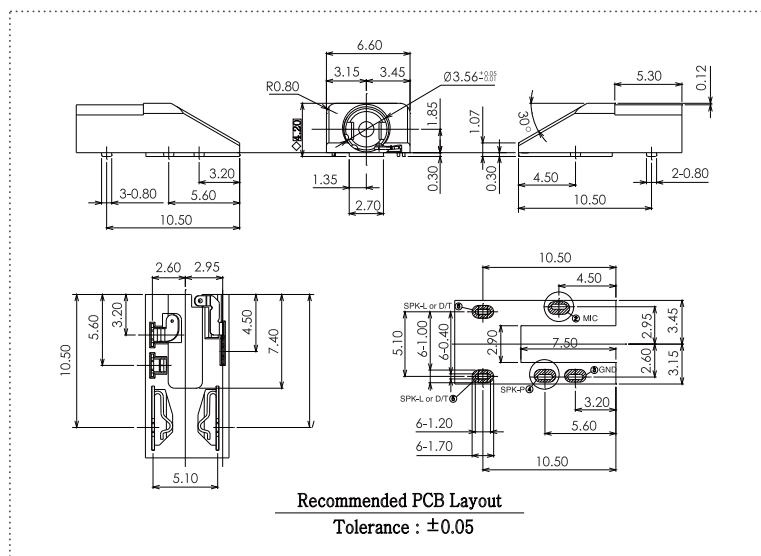
K500073-05



Slim Earjack 0.3DP

LIST OF MATERIALS

Insulator	Nylon
Signal Contact	Copper Alloy & STS
Plating	Contact : Au over Ni



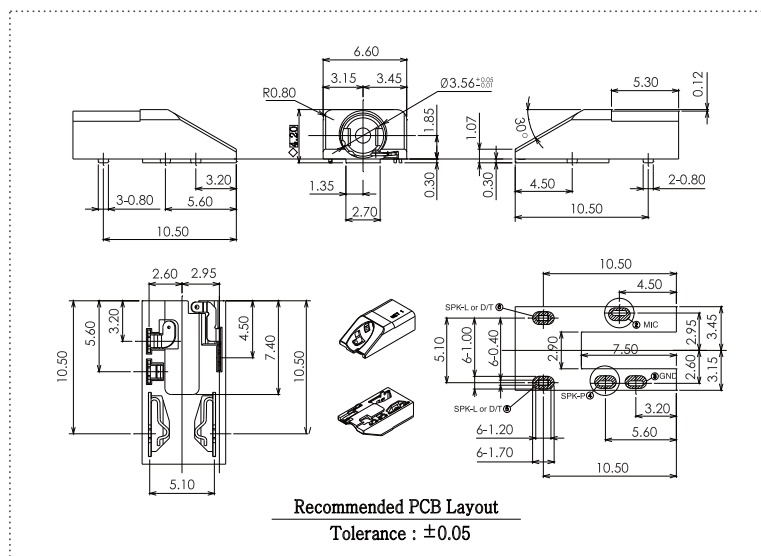
K500074-05



Slim Earjack 0.6DP

LIST OF MATERIALS

Insulator	Nylon
Signal Contact	Copper Alloy & STS
Plating	Contact : Au over Ni



MICRO USB SERIES

Micro USB Connectors



➔ FEATURES

1. International Standards Type of Micro USB Connector.
2. Lead-Free and Halogen-Free Apply.
3. Compatibility
Data transfer and charging of smart phones
Mobile phones used for the Slim type Contributes.

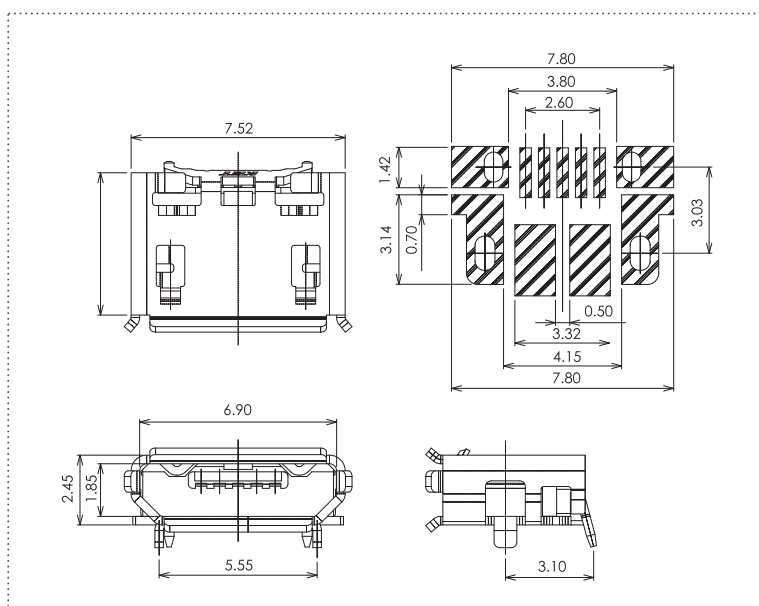
➡ SPECIFICATIONS

LIST OF MATERIALS(SOCKET)	
Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Metal Plate	Stainless Steel
Plating	Contact : Au over Ni Metal Shell : Ni

LIST OF MATERIALS(PLUG)	
Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Plating	Contact : Au over Ni Metal Shell : Ni

ITEM	SPECIFICATIONS
Voltage Rating	AC 250V
Current Rating	Signal Contact Only : 1A / Pin (No. 2,3,4) Power Applied Contact : 1.8A / Pin (No.1,5) 0.5A / Pin (No. 2,3,4)
Operating Temperature	-30℃ ~ + 80℃
BDV	350V AC for 1minute
Insulation Resistance	1,000M Ω Min
Contact Resistance	30m Ω Max
Durability	10,000 cycle

K500018-05



RF SWITCH SERIES(SMT TYPE)



FEATURES

1. Antenna used in devices such as mobile phones and the mechanical interactions between Duplexer circuits with switch function Connector.
2. Apply compact size
3. Higher frequencies can be used : DC to 6GHz
4. Compatibility
Mobile Phone, GPS Module, Bluetooth Module.

SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	AC 250V
Normal Frequency Range	DC to 6GHz
Operating Temperature	-30 ℃ ~ +85 ℃
BDV	300V AC for 1minute
Insulation Resistance	500M Ω Min
Contact Resistance	50m Ω Max
Durability	100 cycle

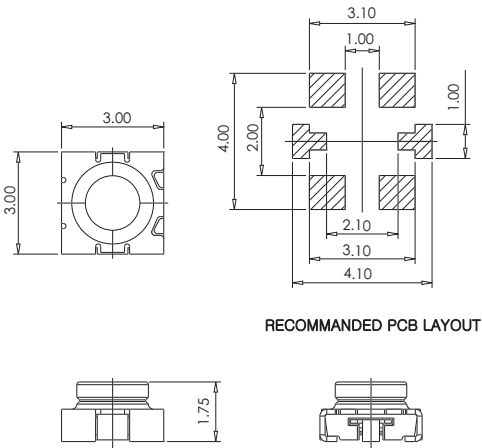
KR10A-26-02



RF S/W Socket Connecr (1.75T)

LIST OF MATERIALS(PLUG)

Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Copper Alloy
Plating	Contact : Au over Ni Shell : Au over Ni



MOBILE PHONE

RF SWITCH SERIES(SMT TYPE)

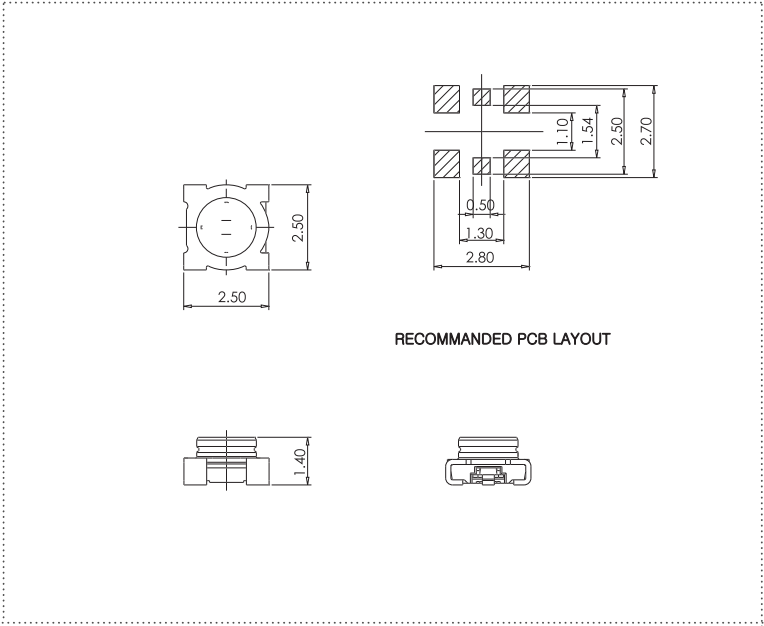
K500002-02



RF S/W Socket Connector (1.4T)

LIST OF MATERIALS

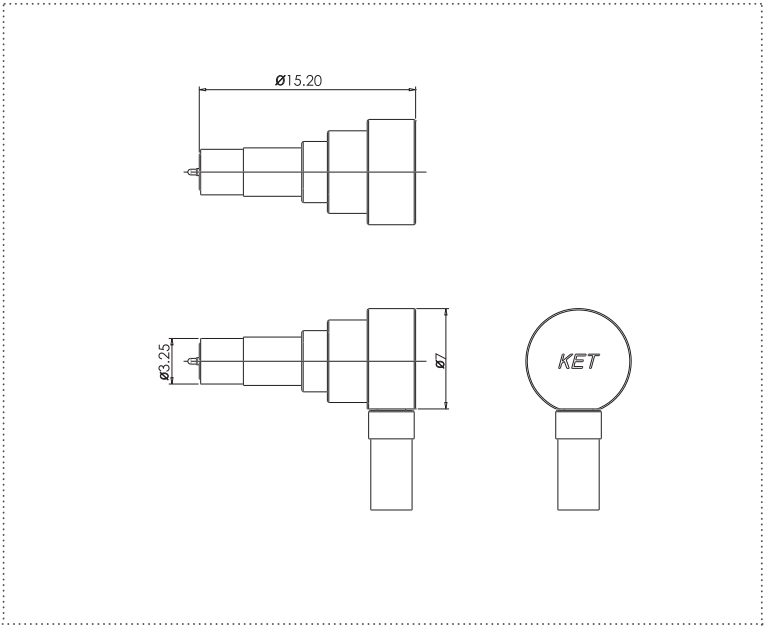
Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Copper Alloy
Plating	Contact : Au over Ni
	Metal Shell : Au over Ni



K500011-01



RF S/W Plug Connector



C-CLIP SERIES

Antenna Connectors



FEATURES

1. Contact Mobile terminal antennas used in the product.
2. Apply compact size
3. According to customer's requirements can be implemented in various heights
4. Compatibility: Mobile Phone, Tablet PC, Portable Modem

SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	AC 100V
Current Rating	3A / Pin
Operating Temperature	-30 °C ~ +80 °C
Contact Resistance	50m Ω Max

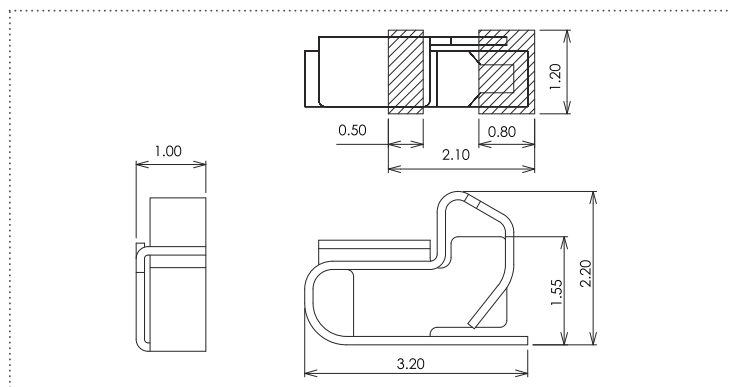
K500008-01



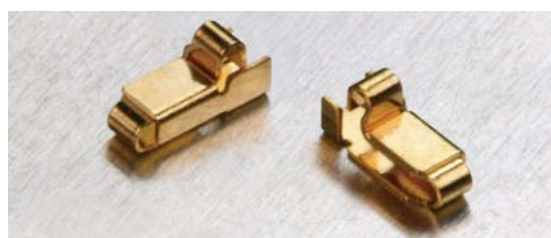
C-Clip Connector (H2.2)

LIST OF MATERIALS

Signal Contact : P-Bronze
Plating : Contact : Au over Ni



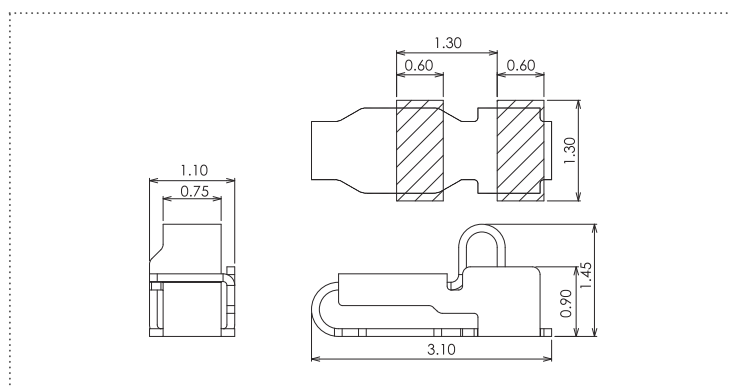
K500020-01



C-Clip Connector (H1.45)

LIST OF MATERIALS

Signal Contact : P-Bronze
Plating : Contact : Au over Ni



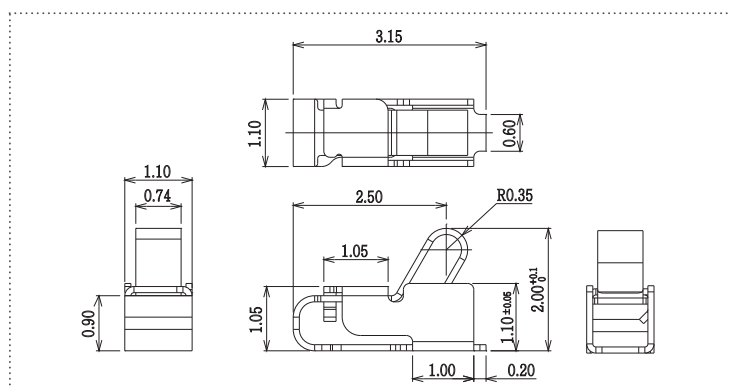
K500053-01



C-Clip Connector (H2.0)

LIST OF MATERIALS

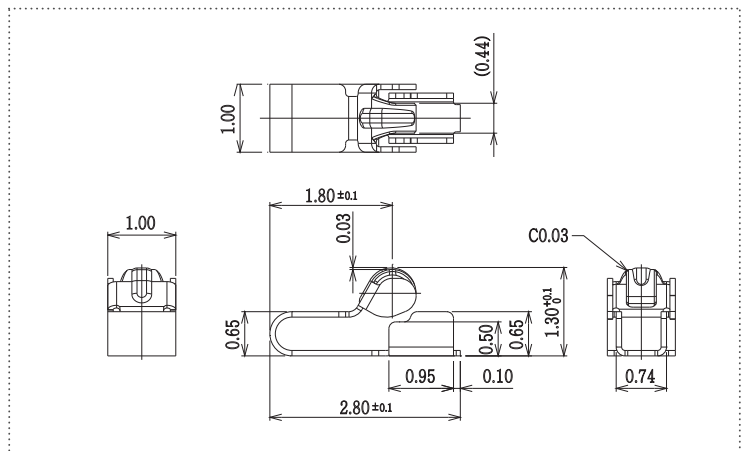
Signal Contact : P-Bronze
Plating : Contact : Au over Ni



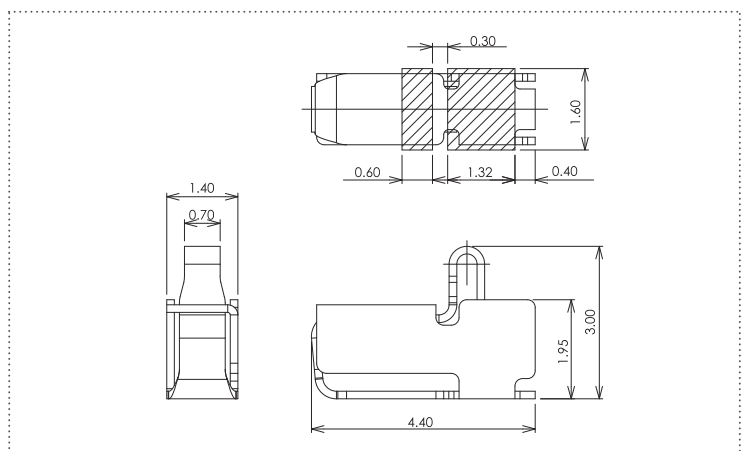
C-CLIP

C-CLIP SERIES

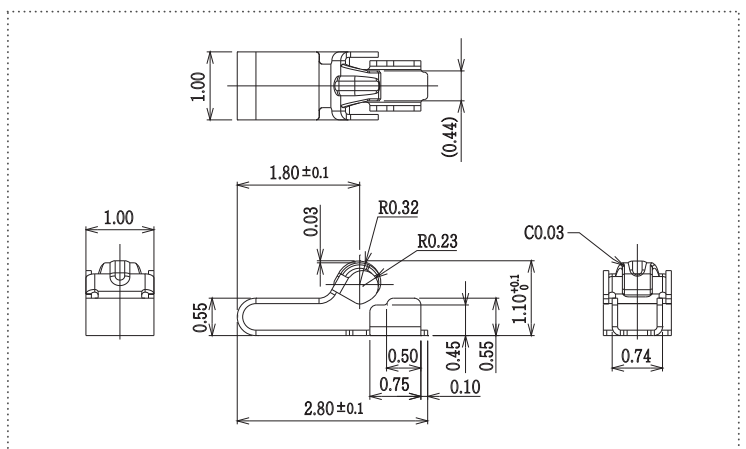
K500058-01



K500041-01



K500068-01



C-CLIP SERIES

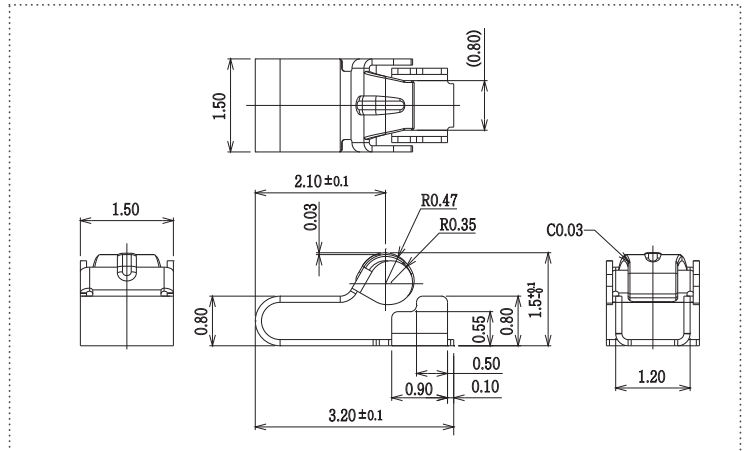
K500069-01



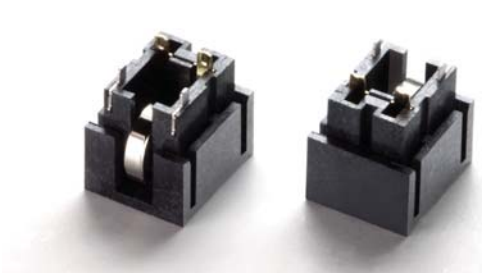
C-Clip Connector (H1.5)

LIST OF MATERIALS

Signal Contact	Signal Contact : Copper Alloy
Plating	Plating : Contact : Au over Ni



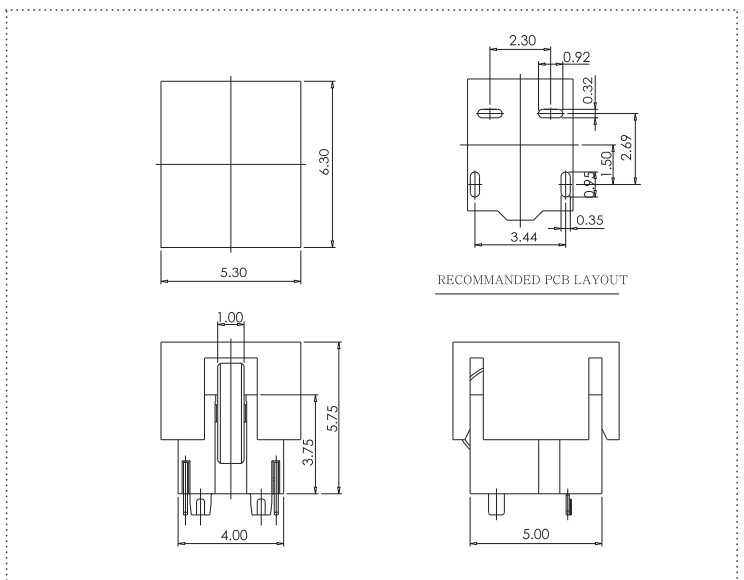
KA50A-023-01



Antenna Switch

LIST OF MATERIALS

Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Brass
Plating	Contact : Au over Ni
	Metal Shell : Ni



C-CLIP

LOW PROFILE I/O CONNECTORS

(0.4mm PITCH, SMT TYPE)

FEATURES

1. Mounted on PCB, domestic MIC standard type
20 pin connectors comply with LEAD-FREE.
2. Compatibility
TTA Series provides competitive price,
mounting compatibility, and well-equipped
functional aspects.

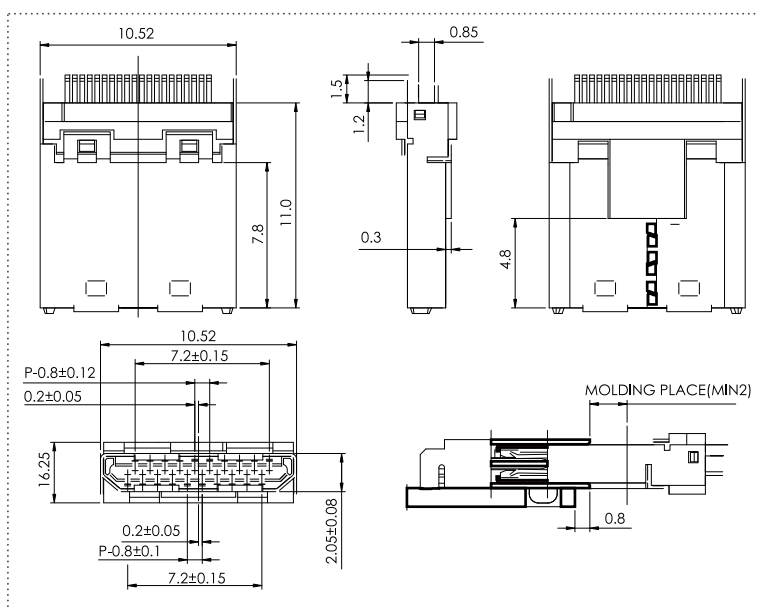
SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	DC 250V
Current Rating	0.5A / Pin
Operating Temperature	-30 °C ~ +85 °C
BDV	350V AC for 1minute
Insulation Resistance	1,000M Ω Min
Contact Resistance	50m Ω Max
Durability	10,000 cycle
Mating Force	MAX 1kgf
Unmating Force	0.7kgf~1kgf

KH12-040-20-050



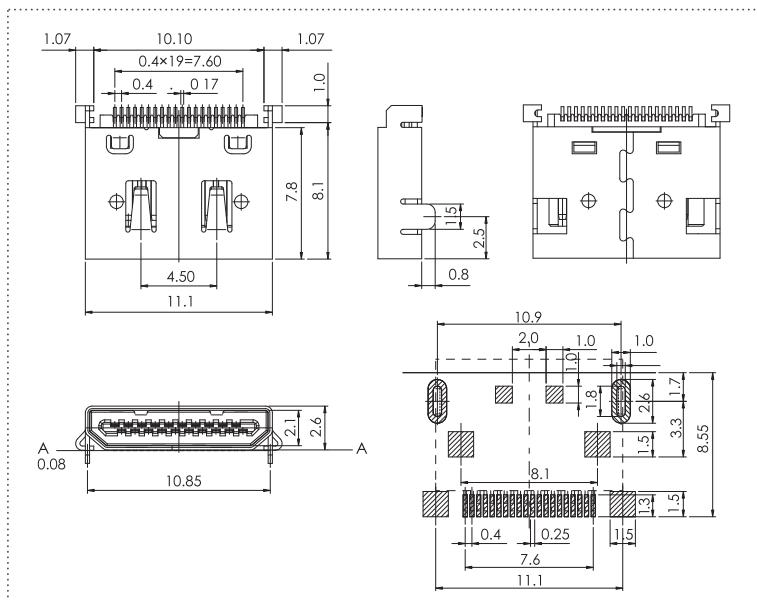
TTA 20P PLUG	
Insulator	LCP/PA
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Plating	Signal Contact : Au plating over nickel Metal Shell : Ni Plating



KP02-040-20-050



TTA 20P SOCKET	
Insulator	LCP
Signal Contact	Copper Alloy
Metal Shell	Stainless Steel
Plating	Signal Contact : Au plating over nickel Metal Shell : Ni Plating



CAR INFOTAINMENT PRODUCTS
(ANTENNA /AVN LCD MONITOR & LCD CLUSTER /
A.V.N SYSTEM / LED LAMP)
373~389page

CAR INFOTAINMENT PRODUCTS

ANTENNA

GPS,DAB,DMB, Satellite Radio etc



KR32001- **



KR15001-SMD



KR31002- **



KR22001- **



KR15001-DIP



KR25101-OC

AVN LCD Monitor & LCD Cluster



KD45A-000-04



KD40A-200-04



KD42A-000-04



KD41A-000-04



KD40D-200-04



KD43A-000-04

A.V.N SYSTEM

Audio, Video, Navigation System



KF30D-050-40



MG644508



MG644504



MG655652

LED LAMP



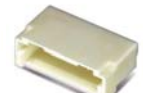
K500024-02



K500025-03



K500026-04



K500027-06



K100232-00



K100233-00



K100234-00



K100235-00

FLOATING B TO B CONNECTOR

0.8mm Pitch SMT Type B to B Connectors



LIST OF MATERIALS

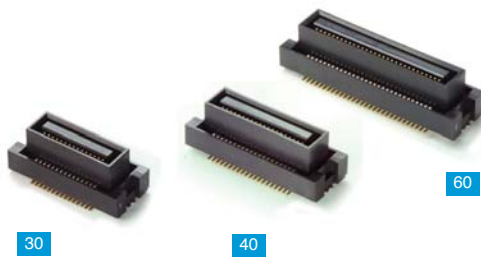
Insulator	Nylon
Cover	Nylon
Terminal	Copper Alloy
Metal Fitting	Copper Alloy
Plating	Terminal : Au over Ni Metal Fitting : Sn

FEATURES

1. Floating type board to board connector with 0.8mm Pitches,
Designed for use in car AVN system
2. The receptacle connector is a two-piece structure that can
absorb any vibration generated when a connector is integrated
into a printed circuit board.

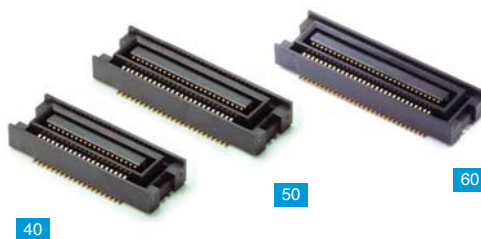
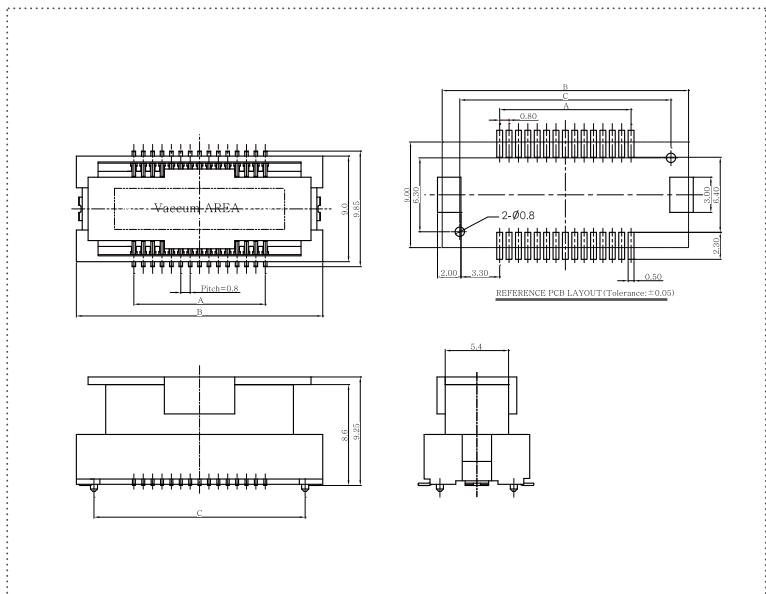
SPECIFICATIONS

ITEM	SPECIFICATIONS
No. of Positions	30 / 40 / 50 / 60
Pitch	0.8mm
Rated Current	0.5A
Rated Voltage	AC / DC 50V
Withstanding Voltage	AC 500Vram/min



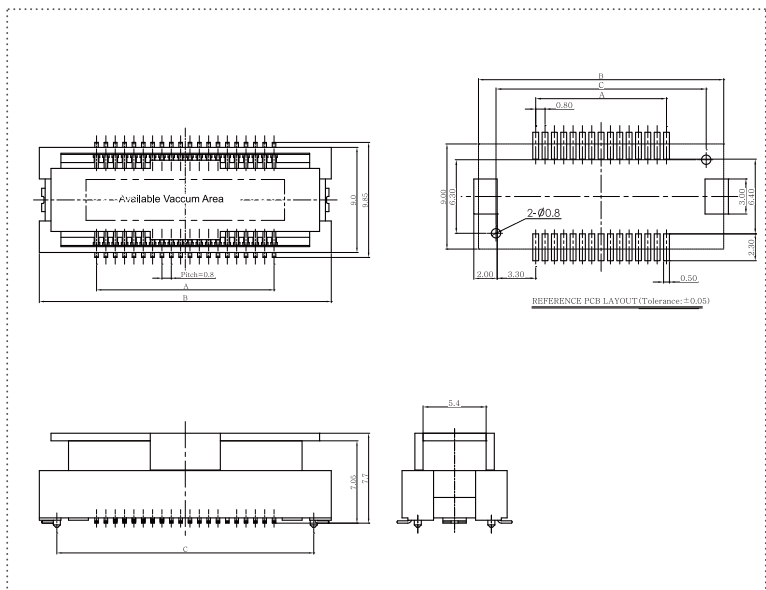
B TO B RECEPTACLE H8.6

Part No	Pin No	A	B	C
MG644504	30	11.2	21.0	18.0
MG644760	40	15.2	25.0	22.0
MG644508	60	23.2	33.0	30.0



B TO B RECEPTACLE H4.95

Part No	Pin No	A	B	C
MG644826	40	15.2	25.0	22.0
MG645335	50	19.2	29.0	26.0
MG645047	60	23.2	33.0	30.0



FLOATING B TO B

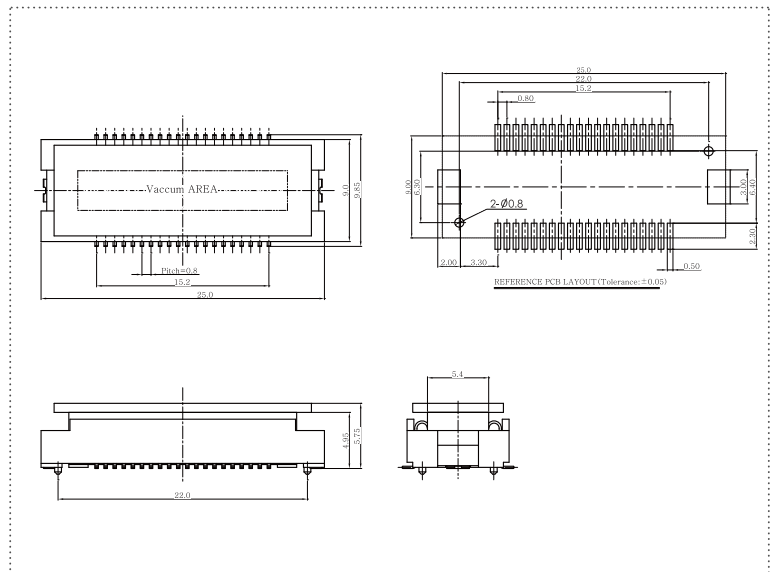
FLOATING B TO B CONNECTOR

MG 644506



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B TO B RECEPTACLE 40P H7.05

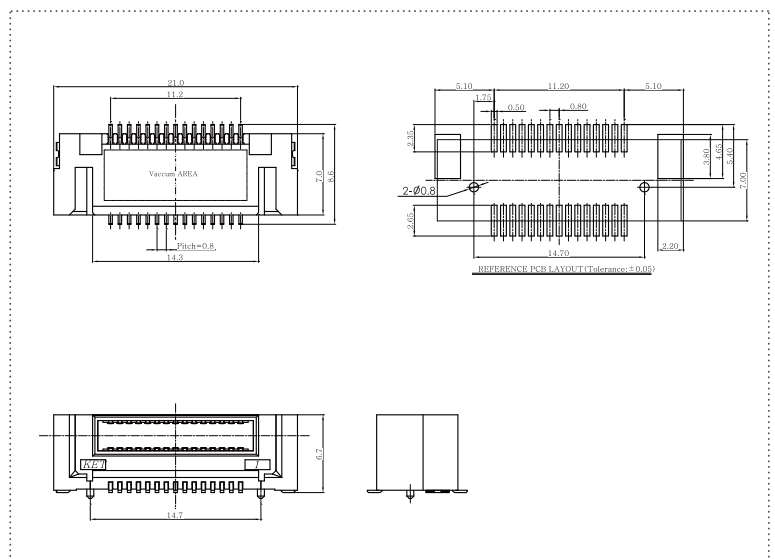


MG 654505



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B TO B PLUG R/A 30P H6.7

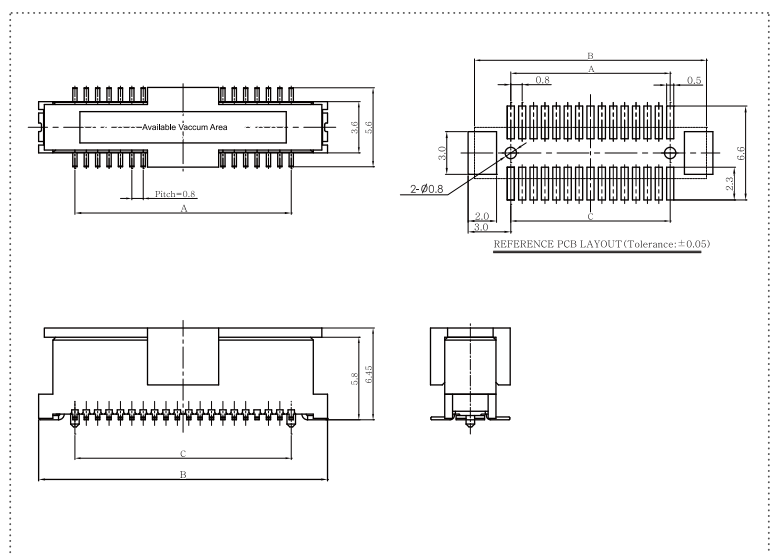


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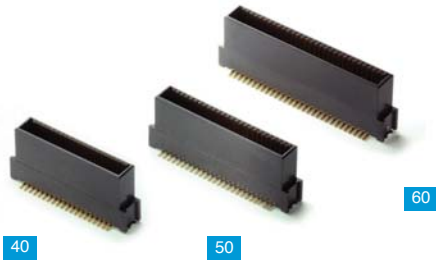
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B TO B PLUG H5.8

Part No	Pin No	A	B	C
MG655179	30	11.2	16.3	11.2
MG654507	40	15.2	20.3	15.2



FLOATING B TO B CONNECTOR



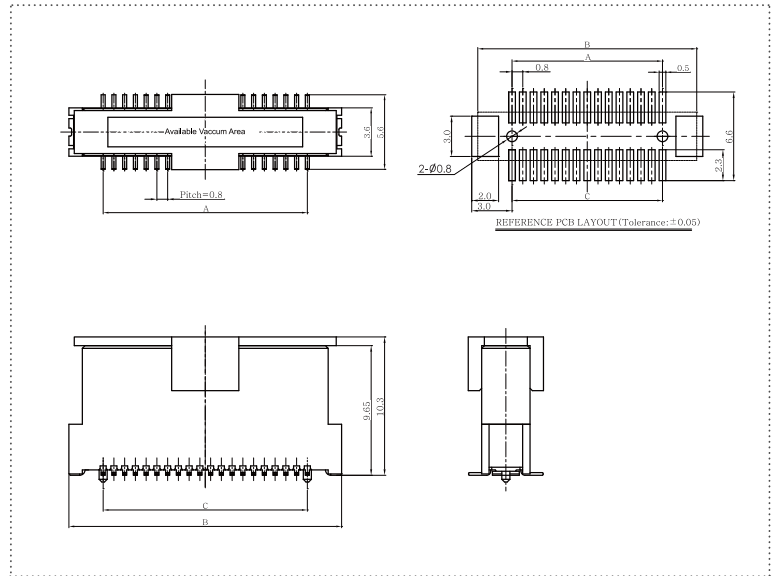
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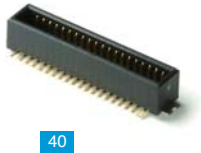
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B TO B PLUG H9.65

Part No	Pin No	A	B	C
MG 654829	40	15.2	20.3	15.2
MG 655338	50	19.2	24.3	19.2
MG 655652	60	23.2	28.3	23.2

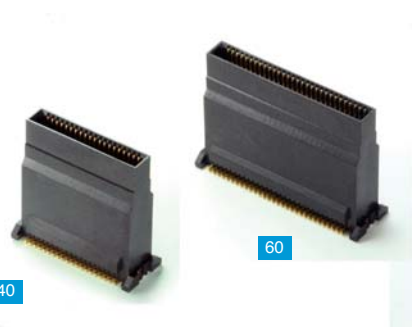
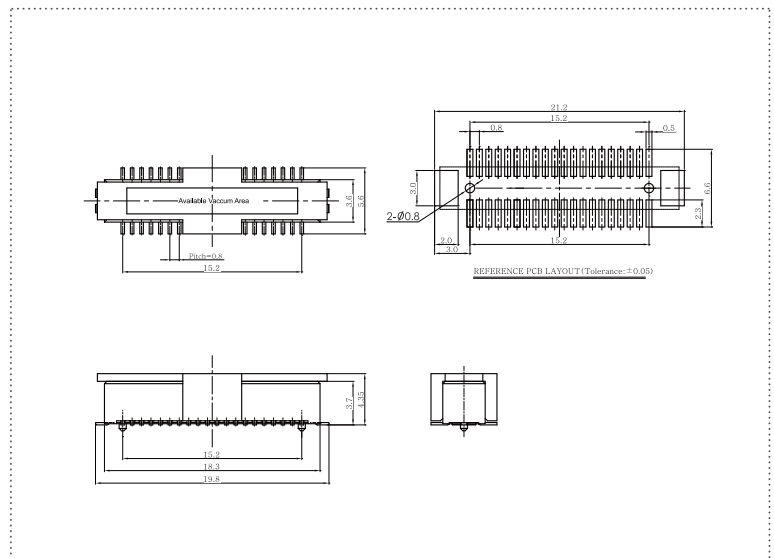


MG 655654



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B TO B PLUG 40P H3.7

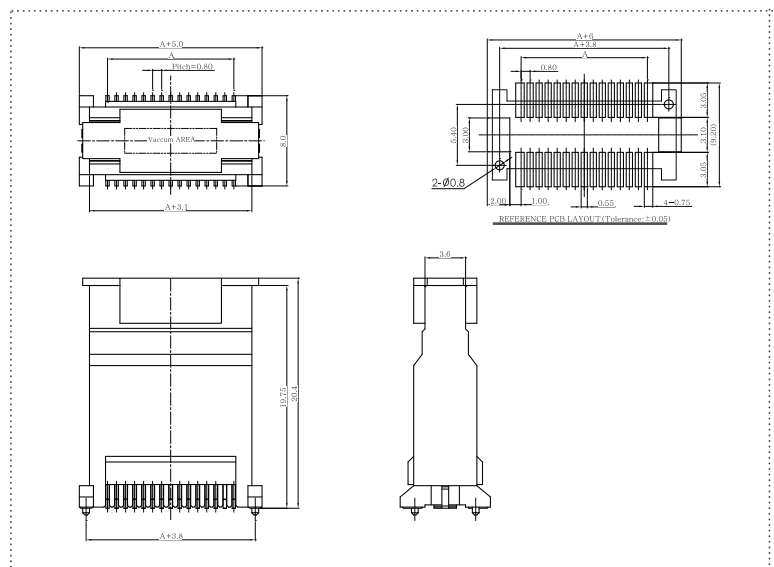


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B TO B PLUG H19.75

Part No	Pin No	A	B	C
MG 654820	40	15.2	-	-
MG 654509	60	23.2	-	-



FLOATING B TO B

WIRE TO BOARD CONNECTOR

2.0mm Pitch SMT Type Wire to Board Connectors

FEATURES

1. The 2.0mm single row cable connector system is ideally suited for high reliable and space saving connections between PCBs and LED lamps, motors, fans etc.
2. Designed to prevent false-connection and to maintain stable connection under car vibration and extreme environmental conditions.



SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	250V AC/DC
Current Rating	3A AC/ DC (2 circuits/ AVSS 0.3SQ)
Operating Temperature	-40℃ ~ +125℃
Contact Resistance	30mΩ Max
Applicable Wire	0.3 SQ

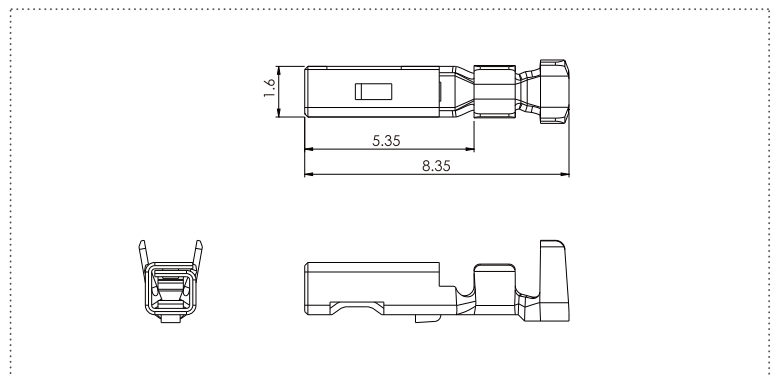
K200294-20



2.0 W TO B PLUG TERMINAL

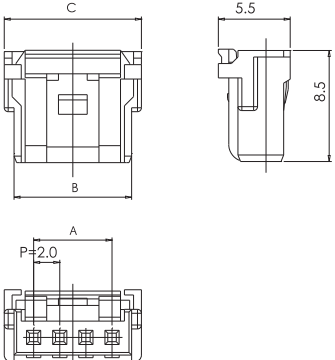
LIST OF MATERIALS

Insulator	Nylon
Terminal	Copper Alloy
Metal Fitting	Copper Alloy
Plating	Terminal : Pre-Tin Metal Fitting : Sn

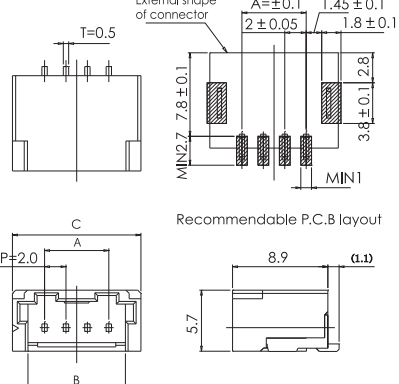
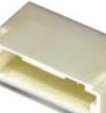


WIRE TO BOARD CONNECTOR

2.0 W TO B PLUG HOUSING

Circuits	Apperance	Part No	Size			Color	Dimension
			A	B	C		
2		K100232-00	2.0	5.0	6.5	Natural	
		K100232-20				Blue	
		K100232-50				Black	
3		K100233-00	4.0	7.0	8.5	Natural	
		K100233-20				Blue	
		K100233-50				Black	
4		K100234-00	6.0	9.0	10.5	Natural	
		K100234-20				Blue	
		K100234-50				Black	
6		K100235-00	10.0	13.0	14.5	Natural	
		K100235-20				Blue	
		K100235-50				Black	

2.0 W TO B WAFER ASSEMBLY

Circuits	Apperance	Part No	Size			Color	Dimension
			A	B	C		
2		K500024-02	2.0	5.1	8.0	Natural	
		K500024-2				Blue	
		K500024-5				Black	
3		K500025-03	4.0	7.1	10.0	Natural	
		K500025-2				Blue	
		K500025-5				Black	
4		K500026-04	6.0	9.1	12.0	Natural	
		K500026-2				Blue	
		K500026-5				Black	
6		K500027-06	10.0	13.1	16.0	Natural	
		K500027-2				Blue	
		K500027-5				Black	

FPC/FFC CONNECTOR

0.5mm Pitch SMT Type FPC/FFC Connectors



LIST OF MATERIALS

Insulator	Nylon
Flip	Nylon
Contact	Copper Alloy
Metal Fitting	Brass
Plating	Terminal : Au over Ni
	Metal Shell : Sn

FEATURES

1. Developing of locking reliability using the “DOUBLE LOCK” type
2. Realizing of upper and lower sides contact by the “DUAL CONTACT” method
3. Improvement of operation efficiency by the “BACK FLIP” method

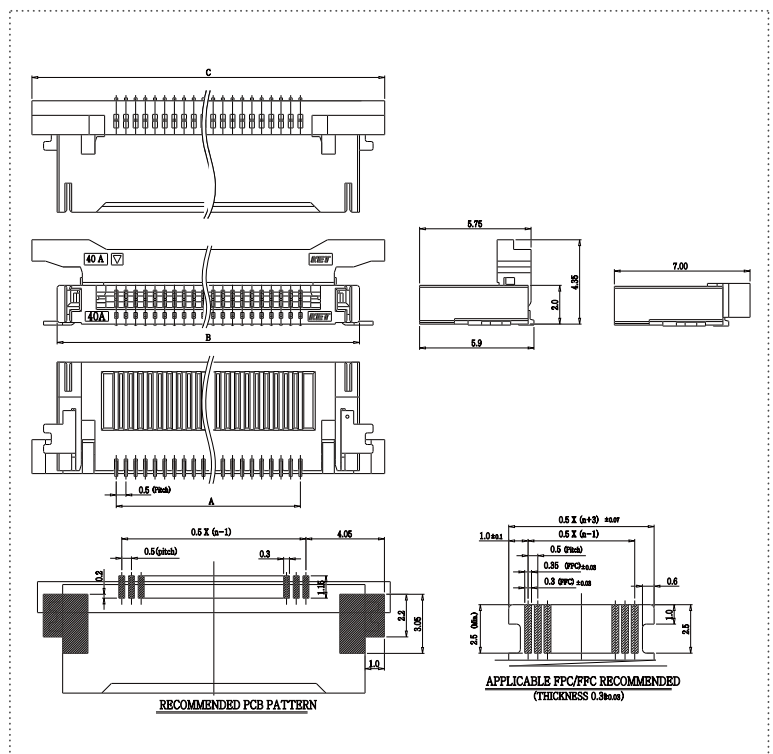
SPECIFICATIONS

ITEM	SPECIFICATIONS
Voltage Rating	AC 50V
Current Rating	0.5A / Pin
Operating Temperature	-40 °C ~ +105 °C
BDV	AC 250V
Insulation Resistance	100M Ω
Contact Resistance	40m Ω Max



0.5mm FPC/FFC CONNECTOR

Part No	Pin No	A	B	C
KF30D-050-40	40	19.5	25.6	28.2
KF30D-050-46	46	22.5	28.6	31.2
KF30D-050-50	50	24.5	30.6	33.2



LVDS(Low Voltage Differential Signal)

LVDS Connector for Automotive System

FEATURES

1. The LVDS Connector is a Isochronous(real time), impedance controlled 100 Ω interconnect system for transfer data at high bit rates : The high performance applications prevent interference through crosstalk and external sources. Performance is achieved by using an optimized shielding concept with complete braid connection to the outer contact of connector
2. The LVDS Connector interconnect system enables applications up to 3.2 Gbit/sec. -800Mbit/sec. on two differential pairs each at 10M length for example in automotive electronics {cameras, AVN connections or IEEE 1394 applications}. One system high bandwidth infrastructure works for many applications that Multi-media stream for all applications and Lower cost and longer design life.
The product consist of PCB connectors and 4-pole STQ cable assemblies.



SPECIFICATIONS

PARAMETER		REQUIREMENT
System impedance (ZPT)		100 Ω
Mated connector and terminal impedance		ZPT $\pm 15 \Omega$
Cable impedance		ZPT $\pm 6 \Omega$
TDR rise time		160 ps
Propagation velocity within cable		Min. 66% Co
Propagation delay skew within a mated connector pair-straight		Max. 10ps/m
Cable propagation delay skew within a wire pair		160 ps
Total insertion loss budget	f < 250MHz	< 4.8 dB
	f < 400MHz	< 6.0 dB
	f < 500MHz	< 6.7 dB
	f < 500MHz	< 9.2 dB
	f < 1,000MHz	< 10.4dB
Variation of insertion loss in the temp: range -40 $^{\circ}$ C to +100 $^{\circ}$ C		± 0.05 dB/m (0~1GHz)
Return loss ; mated connector pair		Min. 20dB (0~1GHz)
Near end crosstalk ; mated connector pair		Max. 5%(differential TDT at 160 ps, 10~90% rise time) Max. -30dB(0~1GHz)
Far end crosstalk ; mated connector pair		Max. 5%(differential TDT at 160 ps, 10~90% rise time) Max. -30dB(0~1GHz)

MATERIAL

TYPE	LIST OF MATERIALS	
SOCKET	INSULATOR	LCP
	HOUSING	NYLON
	OUTER CONTACT	Copper Alloy ; Sn
	INNER CONTACT	Copper Alloy ; Au over Ni
PLUG	INSULATOR	NYLON
	HOUSING	PBT
	OUTER CONTACT	Brass ; Sn-Cu-Zn
	INNER CONTACT	Copper Alloy ; Au over Ni
INLINE	INSULATOR	NYLON
	HOUSING	PBT
	OUTER CONTACT	Brass ; Sn-Cu-Zn
	INNER CONTACT	Copper Alloy ; Au over Ni

PART NUMBER SYSTEM (CONNECTOR)

K	D	4	*	*	-	2	0	0	-	0	4
Series Code	Type	Coding	Pitch	Pin/ea.							

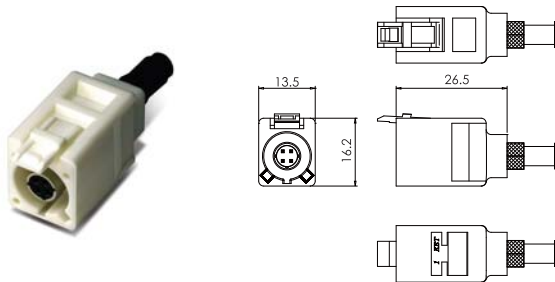
Series Name	TYPE	Coding	Pitch	Pin No.
Series Code	0 : Socket 1 : Plug 2 : Inline (Female) 3 : Inline (Male) 4 : Right Angle 5 : Left Angle	Key Coding	2mm	4P

LVDS(Low Voltage Differential Signal)

LVDS Connector for Automotive System

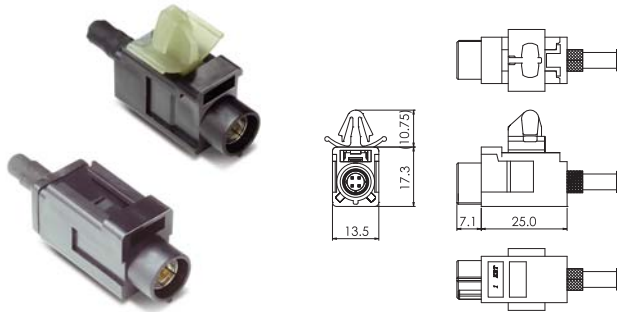
➡ SERIES(INLINE)

INLINE (FEMALE)



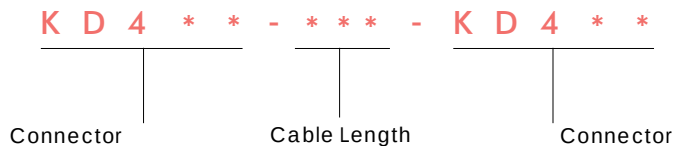
CODING			PART NAME & NO.
A		BLACK	INLINE FEMALE (A) KD42A-000-04
C		WHITE	INLINE FEMALE (C) KD42C-000-04

INLINE (MALE)

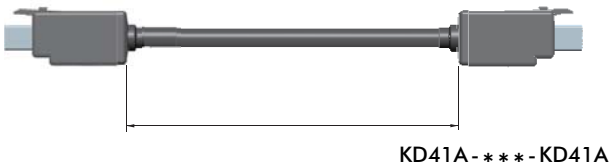


CODING			PART NAME & NO.
A		BLACK	INLINE MALE (A) KD43A-000-04
B		BLACK	INLINE MALE (B) KD43E-000-04
C		WHITE	INLINE MALE (C) KD43C-000-04

○ PART NUMBER SYSTEM (CONNECTOR)

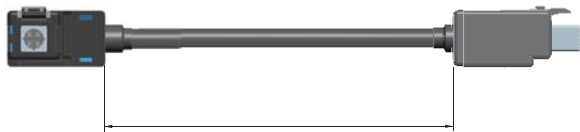


Example



KD41A-***-KD41A

Example



KD45A-***-KD41A

LVDS

FAKRA(Fachkreis Automobil)

FAKRA Connector for Automotive System

OUTLINE

- KET FAKRA connectors are used as standard interfaces for automotive frequency applications such as radio antenna, AVN GPS navigation, DAM,DMB, Bluetooth applications ,WI-FI, Satellite Radio ,distance control, air pressure control etc.



STRAIGHT JACK & PLUG(WITH 2'nd LOCK)



STRAIGHT PLUG (Without 2'nd LOCK)



ANGLE JACK(Without 2'nd LOCK)



WAFER (DIP)

WAFER (SMD) PCB CONNECTOR

SPECIFICATIONS

PARAMETER	REQUIREMENT
Frequency range	DC ~3GHz
Impedance	50 Ω
V.S.W.R.	1.4(≤2GHz)/ 1.5(≤2~3GHz)
Insertion loss	0.3dB(≤3GHz)
Contact current	≤1A DC

WAFER

TYPE	LIST OF MATERIALS	
PCB CONNECTOR	INSULATOR	Thermo Plastic
	HOUSING	Thermo Plastic
	OUTER CONTACT	Copper Alloy ; Sn or Ni
	INNER CONTACT	Copper Alloy ; Au over Ni
SMD CONNECTOR	INSULATOR	Thermo Plastic or Teflon
	HOUSING	Thermo Plastic
	OUTER CONTACT	Copper Alloy
	INNER CONTACT	Copper Alloy Au over Ni

JACK/PLUG COMPOSITION

Ø3.0 STRAIGHT JACK			MATERIAL	Ø3.0 STRAIGHT PLUG		
	Description	Part No.			Description	Part No.
	FAKRA ST SINGLE JACK HSG	KR21101-0[Coding]	PBT		FAKRA ST SINGLE PLUG HSG	KR31101-0[Coding]
	FAKRA ST DUAL JACK HSG	KR22101-0[Coding]			FAKRA ST DUAL PLUG HSG	KR32101-0[Coding]
	FAKRA STRAIGHT JACK OUTER CONTACT	[KR20201-20]	Brass ; Sn or Ni		FAKRA STRAIGHT PLUG OUTER CONTACT	[KR30201-20]
	FAKRA STRAIGHT JACK TERMINAL	[KR20301-20]	Copper Alloy ; Au over Ni		FAKRA STRAIGHT PLUG TERMINAL	[KR30301-20]
	FAKRA HARNESS SLEEVE	[KR00401-20]	Brass ; Sn or Ni		FAKRA HARNESS SLEEVE	[KR00401-20]

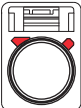
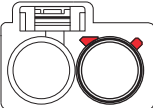
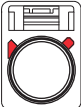
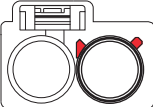
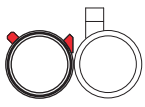
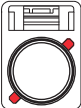
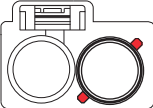
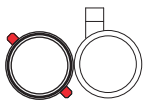
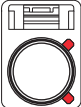
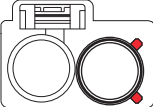
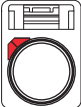
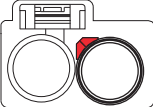
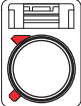
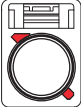
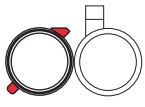
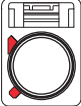
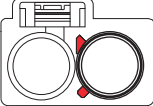
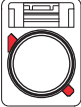
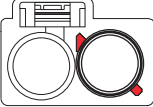
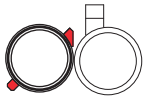
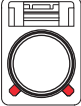
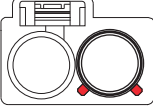
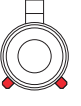
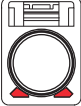
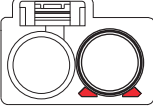
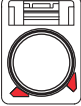
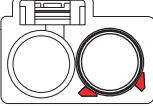
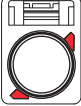
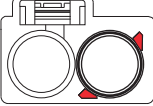
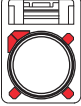
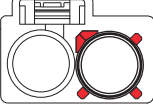
JACK/PLUG COMPOSITION

Ø5.0 STRAIGHT JACK			MATERIAL	Ø5.0 STRAIGHT PLUG		
	Description	Part No.			Description	Part No.
	FAKRA ST SINGLE JACK HSG	KR21101-0[Coding]	PBT		FAKRA ST SINGLE PLUG HSG	KR31101-0[Coding]
	FAKRA ST DUAL JACK HSG	KR22101-0[Coding]			FAKRA ST DUAL PLUG HSG	KR32101-0[Coding]
	FAKRA STRAIGHT JACK OUTER CONTACT	[KR20201-30]	Brass ; Sn or Ni		FAKRA STRAIGHT PLUG OUTER CONTACT	[KR30201-30]
	FAKRA STRAIGHT JACK TERMINAL	[KR20301-30]	Copper Alloy ; Au over Ni		FAKRA STRAIGHT PLUG TERMINAL	[KR30301-30]
	FAKRA HARNESS SLEEVE	[KR00401-30]	Brass ; Sn or Ni		FAKRA HARNESS SLEEVE	[KR00401-30]

FAKRA(Fachkreis Automobil)

FAKRA Connector for Automotive System

CODING

	CODING	JACK		PLUG		COLOR / RAL-Nr	
		SINGLE	DUAL	SINGLE	DUAL		
A	Radio without phantom supply					Black / 9005	
B	Radio without phantom supply					White / 9001	
C	GPS : telematics or navigation					Blue / 5005	
D	GSM Cellular phone					Bordeaux Violet/4004	
E	TV 1					Green / 6002	
F	TV 2					Brown / 8011	
G	Remote control keyless entry					Gray / 7031	
H	GPS : telematics and navigation					Violet / 4003	
I	Radio controlled parking heating					Beige /1001	
K	Radio with IF					Curry / 1027	
L	Not defined					Carmin Red / 3002	
M	Not defined					Pastel Orange/ 2003	
N	Not defined					Pastel Green / 6019	
Z	Neutral coding					Water blue / 5021	

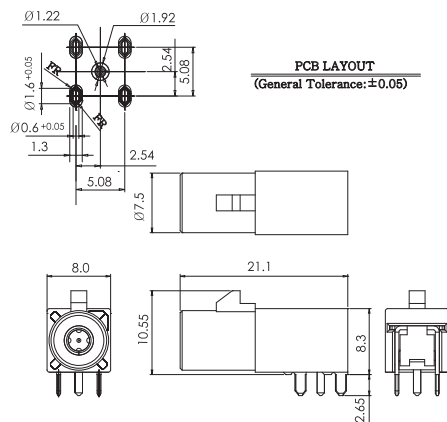
FAKRA

FAKRA(Fachkreis Automobil)

FAKRA Connector for Automotive System

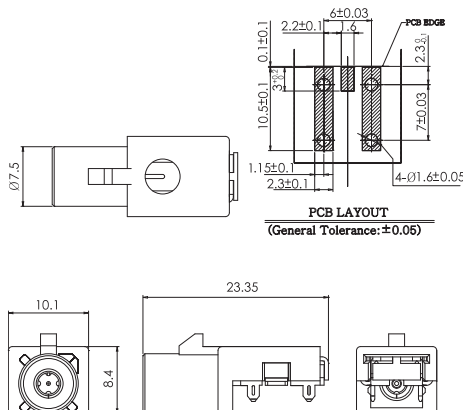
➤ SERIES(WAFER, PCB CONNECTOR)

SOCKET (PCB CONNECTOR, DIP TYPE)



CODING		PART NAME & No.	COLOR
B		WAFER ASS Y (DIP-B) KR15001-DB	White
C		WAFER ASS Y (DIP-C) KR15001-DC	Blue
F		WAFER ASS Y (DIP-F) KR15001-DF	Brown
K		WAFER ASS Y (DIP-K) KR15001-DK	Curry

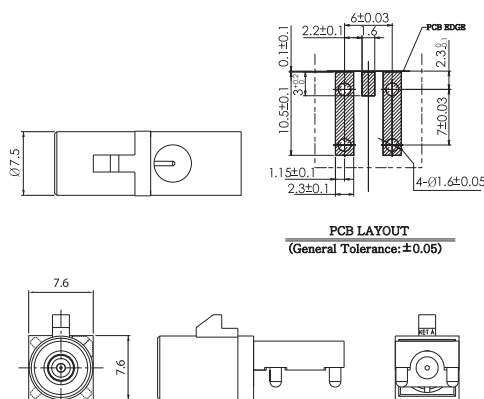
SOCKET (PCB CONNECTOR, SMD TYPE)



CODING		PART NAME & No.	COLOR
B		WAFER ASS Y (SMD-B) KR15001-SB	White
C		WAFER ASS Y (SMD-C) KR15001-SC	Blue
D		WAFER ASS Y (SMD-E) KR15001-SE	Green
G		WAFER ASS Y (SMD-F) KR15001-SF	Brown

➤ SERIES (WAFERII, PCB CONNECTOR) – SMD TYPE

SOCKET (PCB CONNECTOR, DIP TYPE)

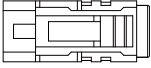
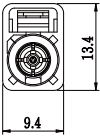
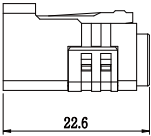
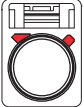
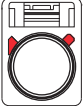
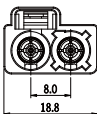
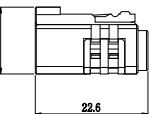
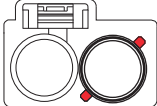
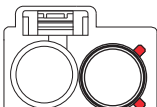
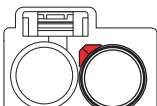
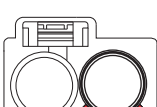


CODING		PART NAME & No.	COLOR
A		WAFER ASS Y (SMD-A) KR15002-SA	Black
C		WAFER ASS Y (SMD-C) KR15001-SC	Blue
D		WAFER ASS Y (SMD-D) KR15001-SD	Bordeaux Violet
G		WAFER ASS Y (SMD-G) KR15001-SG	Gray

FAKRA(Fachkreis Automobil)

FAKRA Connector for Automotive System

➡ SERIES(JACK CONNECTOR)

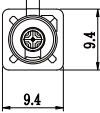
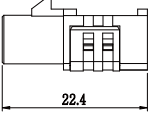
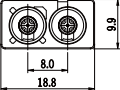
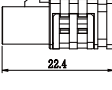
JACK (STRAIGHT, 2'nd LOCK) * : CABLE OPTION				
SINGLE	CODING	PART NAME & No.	APPLICABLE CABLE	COLOR
   	A	 STRAIGHT SINGLE JACK-A KR21001-*A	RG 174 RG 178 RG 316S RG 316D 1.5DS	 Black
	B	 STRAIGHT SINGLE JACK-B KR21001-*B		 White
	C	 STRAIGHT SINGLE JACK-C KR21001-*C		 Blue
	D	 STRAIGHT SINGLE JACK-D KR21001-*D		 Bordeaux Violet
	E	 STRAIGHT SINGLE JACK-E KR21001-*E		 Green
	F	 STRAIGHT SINGLE JACK-F KR21001-*F		 Brown
	K	 STRAIGHT SINGLE JACK-K KR21001-*K		 Curry
	Z	 STRAIGHT SINGLE JACK-Z KR21001-*Z		 Water Blue
DUAL				
   	C	 STRAIGHT DUAL JACK-C KR22001-*C	RG 174 RG 178 RG 316S RG 316D 1.5DS	 Blue
	D	 STRAIGHT DUAL JACK-D KR22001-*D		 Bordeaux Violet
	E	 STRAIGHT DUAL JACK-E KR22001-*E		 Green
	K	 STRAIGHT DUAL JACK-K KR22001-*K		 Curry

FAKRA

FAKRA(Fachkreis Automobil)

FAKRA Connector for Automotive System

➡ SERIES(PLUG CONNECTOR)

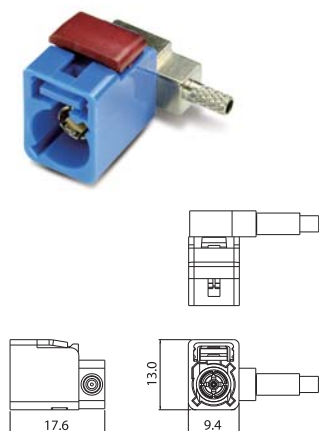
PLUG (STRAIGHT, 2'nd LOCK) * : CABLE OPTION				
SINGLE	CODING	PART NAME & No.	APPLICABLE CABLE	COLOR
   	A	STRAIGHT SINGLE PLUG-A KR31001-*A	RG 174 RG 178 RG 316S RG 316D 1.5DS	 Black
	B	STRAIGHT SINGLE PLUG-B KR31001-*B		 White
	C	STRAIGHT SINGLE PLUG-C KR31001-*C		 Blue
	D	STRAIGHT SINGLE PLUG-D KR31001-*D		 Bordeaux Violet
	E	STRAIGHT SINGLE PLUG-E KR31001-*E		 Green
	F	STRAIGHT SINGLE PLUG-F KR31001-*F		 Brown
	K	STRAIGHT SINGLE PLUG-K KR31001-*K		 Curry
	Z	STRAIGHT SINGLE PLUG-Z KR31001-*Z		 Water Blue
DUAL	CODING	PART NAME & No.	APPLICABLE CABLE	COLOR
   	C	STRAIGHT DUAL PLUG-C KR32001-*C	RG 174 RG 178 RG 316S RG 316D 1.5DS	 Blue
	D	STRAIGHT DUAL PLUG-D KR32001-*D		 Bordeaux Violet
	E	STRAIGHT DUAL PLUG-E KR32001-*E		 Green
	K	STRAIGHT DUAL PLUG-K KR32001-*K		 Curry

FAKRA(Fachkreis Automobil)

FAKRA Connector for Automotive System

➤ SERIES (JACK ANGLE CONNECTOR)

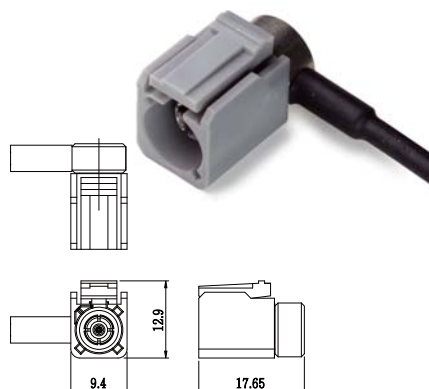
SOCKET (PCB CONNECTOR, SMD TYPE)



	CODING	PART NAME & No.	PART & No.	COLOR
C		FAKRA ANGLE JACKII OUT HOUSING C	KR25101-0C	 Blue
D		FAKRA ANGLE JACKII OUT HOUSING D	KR25101-0D	 Bordeaux Violet
F		FAKRA ANGLE JACKII OUT HOUSING F	KR25101-0F	 Brown
K		FAKRA ANGLE JACKII OUT HOUSING K	KR25101-0K	 Curry

➤ SERIES(JACK CONNECTOR)

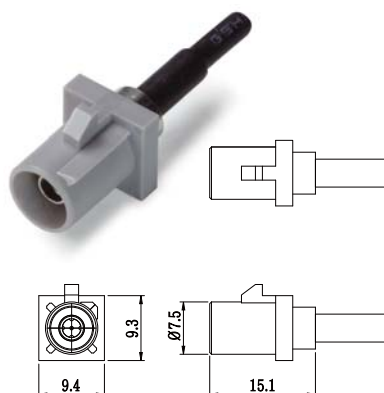
JACK (ANGLE, TURNABLE, NON 2'nd LOCK) * : CABLE OPTION



	CODING	PART NAME & No.	APPLICABLE CABLE	COLOR
G		TURNABLE ANGLE JACK_G KR25001-*G	RG 174 RG 178 RG 316S RG 316D	 Gray
K		TURNABLE ANGLE JACK_K KR25001-*K		 Curry

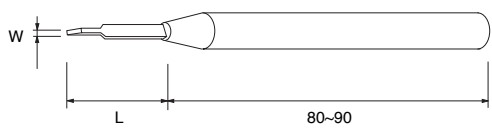
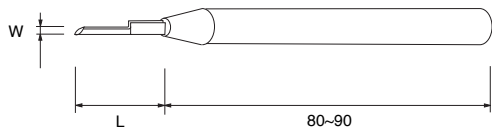
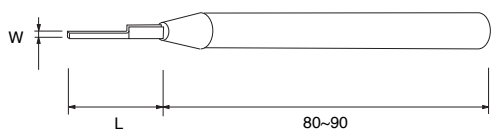
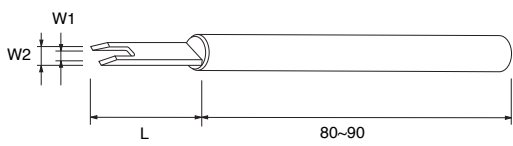
➤ SERIES(PLUG CONNECTOR)

PLUG (Non 2'nd LOCK , OPTION : With bracket / Without bracket * : CABLE OPTION



	CODING	PART NAME & No.	APPLICABLE CABLE	COLOR
G		STRAIGHT PLUG-G KR31002-*G	RG 174 RG 178 RG 316S RG 316D	 Gray
K		STRAIGHT PLUG-K KR31002-*K		 Curry

REWORK JIG



Part No.	T	W1	W2	L	SUITABLE CONNECTOR SERIES
830002	0.85	3.2	5.8	25.0	187P-LOCK
830003	2.0	4.0	6.6	25.0	250P-LOCK
830023	1.7	5.4	8.8	16.0	312P-LOCK

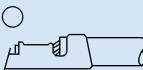
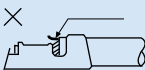
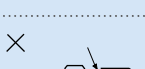
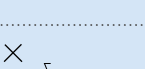
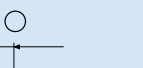
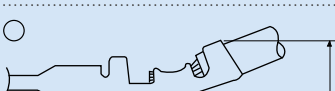
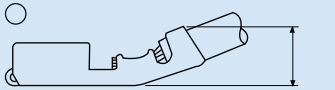
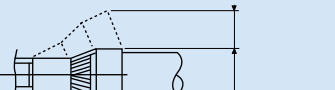
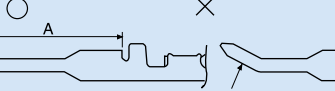
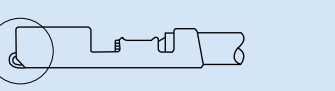
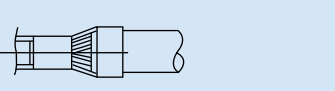
Part No.	T	W	L	SUITABLE CONNECTOR SERIES
830015	0.8	0.7	16.0	1006
830024	1.4	0.7	20.0	025

Part No.	T	W	L	SUITABLE CONNECTOR SERIES
830001	1.4	1.4	20.0	1806
830016	1.7	1.2	25.0	3220
830017	1.0	1.0	18.0	1806 D/L

Part No.	T	W	L	SUITABLE CONNECTOR SERIES
830009	1.3	1.0	25.0	070,090,040,CLUSTER
830010	2.0	1.7	25.0	375,312,250,PA,BS
830019	1.0	1.0	18.0	060
830022	1.0	1.3	25.0	090-II
830026	1.0	0.85	22.0	050

CHECK ITEM AND APPROVAL STANDARDS RELATED TO PRESSURE CONNECTION.

Attention should be paid to the following items, and they should be controlled as a priority, in terminal pressure connection.

Check items	Problem	Approval; standards (Example)	Problem causes and remedial actions
Terminal pressure connected shape	Cores not neatly arranged.	 	Pressure connection locations, core extrusion and crimper adjustment
	Burrs in pressure-connected cores.	 	Check crimper and anvil width; and replace, as required.
	Bell mouth	 	Check terminal feed location and spacer crimper location, including tear and wear, and adjust, as required.
	Insulation (coating) slippage	 	Check pressure connection location and adjust, as required. Check strip length.
	Coating slippage (Wire barrel part)	 	As above.
	Core extruded length		As above.
Burrs at terminal end	Burrs	 	Check cutting Locations and wear and tear on cutting punch: check and adjust.
Terminal upward and downward bending	Tab terminal bending		Check anvil height and deformation.
	Receiver terminal bending		As above.
Terminal traverse bending	Terminal bending		Check anvil and crimper locations.
Terminal bending	Terminal bending		Check terminal feed guide, crimper and anvil.
Terminal deformation	Tab terminal deformation at location shown in right-hand figure		Check terminal feed surface; crimper and anvil heights.
	Receiver terminal deformation at location shown in right-hand figure		As above.
Pressure connection deformation	Cores extruded		Check terminal barrel length; and crimper width.

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610028	307	610224S-2	323	610476	325	610993	311	611730	129
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610054	83	610263	131	610593	301	611191P	300	612026	126
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642666	208	643236	50	643507	167	644112	199	644837	208
642667	234	643241	170	643520	92	644114	187	644839	198
642670	234	643248	43	643535-4	198	644125	199	644881	210
642673	234	643261	44	643546	242	644145	51	644902	180
642835	206	643264	39	643577	151	644146	51	644918-2	188
642840-41	105	643269	40	643587	195	644148	223	644920-3	189
642849	268	643272	40	643608	193	644152	35	644925	150
642852	193	643278	39	643615	176	644157	193	644937	197
642855	268	643284	39	643624	154	644167	183	645004	190
642856	268	643295	195	643643	197	644170	183	645021	207
642859	268	643302	104	643645	198	644345	242	645035	224
642860	268	643309-2	234	643648	193	644352	203	645047	375
642868	208	643312	210	643678	202	644381	203	645050	203
642870	195	643314	209	643681	211	644384	190	645051	196
642872-7	270	643315	94	643684	195	644390	180	645052	206

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645055	190	645658	190	645762	172				
645066	39	645690	70	645763-41	199				
645080	183	645696	51	645766	212				
645084-3	52	645697-4	211	645769	205				
645088-3	52	645698	211	645775	164				
645098	86	645699	205	645777	163				
645104	184	645700	205	645784	144				
645107	184	645701	205	645785	172				
645119	187	645702	205	645787	240				
645121	187	645703	205	645800	191				
645128	35	645704	205	645801	191				
645134	201	645705	276	645802	191				
645172	64	645706	276	645803	191				
645206	231	645707	276	645805	163				
645221	211	645708	276	645807	164				
645260	187	645709	276	645808	149				
645273	158	645710	276	645809	149				
645320	188	645711	276	645810	163				
645335	375	645715	188	645814	276				
645346	152	645716	188	645815	276				
645395	205	645717	188	645816	276				
645433	160	645718	188	645817	276				
645441	178	645719	188	645818	230				
645450	70	645720	38	645819	230				
645470-5	325	645721	38	645820	189				
645485	104	645722	38	645824	230				
645488	205	645723	38	645825-41	53				
645513	276	645724	38,229	645836	163				
645571	62	645725	69,240	645845	34				
645579	69	645726	211	645849	160				
645584	192	645733-7	207	645850	173				
645586	188	645736-1	207	645853	164				
645590	62	645737	212	645855-5	189				
645595	62	645738	190	645854	38				
645600	62	645739	190	645856	173				
645605	62	645740	158	645857	173				
645610	63	645741	159	645866	34				
645615	63	645742	160	645867-2	34				
645620	63	645743	160	645872	174				
645625	63	645744	112,172	645878	188				
645630	63	645748-11	277	645883	204				
645635	63	645749	177	645884	204				
645636	189	645750	135	645885	204				
645637	209	645751	163						
645638	69	645752-3	52						
645639	69	645753-4	52						
645640	69	645754	230						
645642	229	645755	164						
645650	230	645756	164						
645655	180	645758	172						

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650447	100	651598	55,204	652863	79	653701	239	654797	166
650817	178	651711	171	652864	79	653716-20	235	654806	42
650887	132	651727-2	233	652911	151,202	653762	146	654809	42
650890	153	651740	234	652934	140	653849	79	654820	377
650901	132	651747	124	652945	45	653863	242	654829	377
650943	140	651759	86	652983	45	653912	151	654844	239
651006	154	651770-9	234	652987	43	653930	169	654863-41	192
651013	179	651780-7	234	652993	43	653931-40A	185	654883	243
651018-4	109	651802-4	67	652999	44	653932-40A	185	654903	159
651026	86	651803-6	67	653005	44	653933-40A	185	654907	158
651032	87	651804-2	67	653012	45	653992	153	654911	166
651038	87,234	651820-11	235	653019	45	653993	138	654922-3	229
651044	87,237	651822-2	235	653026	45	653994	138	654928	150
651050	88,177,234	651823-3	235	653033	46	654020	170	655099	184
651056	88,177	651824-40	235	653077	79	654021	96	655111	184
651068	89	651825-5	235	653078	79	654052	158	655115	270
651074	90	651826-6	235	653144	239	654090	187,188	655118	148
651080	90	651827-7	235	653198	94,208	654102	35,187,188,190	655131	35
651086	90	651828-1	235	653251-41	44	654116	187	655140	152
651092	103	651829-9	235	653254-41	44	654121	151	655141-41	152
651098	104	651830	235	653257	44	654243	192	655142	148
651104	104	651881	154	653275	41	654349	242	655143-41	148
651110	89	651882-3	154,177	653329	45	654386	190	655175	64
651127	89	651917	153,209	653397-5	269	654391	180	655179	376
651194	86	651926	138	653401	80	654410	150,189	655203	152,231
651201-4	86	651932-41	235	653402	80	654413	150,189	655235	242
651205	86	651965	89	653426-4	239	654429	151	655276	158
651308	105	651975-9	235	653479	80	654442	184	655323	188
651343	105	651976-2	235	653480	80	654446	184	655338	377
651350	89	651977-40	231	653494	103	654447	184	655347-41	67,205
651359	104	651990-8	235	653504	167	654467-4	70	655361	277
651379	154,177	652013-8	235	653512	167	654469	113	655420-3	52
651380	151	652014-3	235	653537	46	654491	239	655437	160
651397	40	652037	157,211	653549	242	654503	40	655444	178
651400	41	652040-1	234	653559	168	654505	376	655447	70
651412	41	652041-3	234	653561	168	654507	376	655531	270
651428	41	652220	122,153,209	653563	180	654509	377	655574	62
651434	41,193	652290	140	653563-4	169	654621	158	655587	188
651436-4	41	652400	171	653565-2	169	654627	159	655593	62
651439	41	652429	237	653586	270	654642	166	655598	62
651441-4	41	652500	138	653595-41	176	654648	225,226	655603	62
651444	40	652503	155	653596	176	654659	225,226	655608	62
651502-2	234	652520	239	653599	176	654667	148,189	655613	63
651503-4	234	652533	237	653600-41	176	654670	148,187,189	655618	63
651504-5	234	652582	231	653601	176	654687	150	655623	63
651525	153,209,210	652584	231	653602-41	176	654767	159	655628	63
651563	55,203,204	652630	40	653605	44	654775	159	655633	63,230
651575	55	652633	41	653612	176	654783	178	655638	63
651580	55,203	652674	235	653650	79	654789	150	655639	189
651586	54	652719	153	653651	79	654793	166	655640	69

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655642	69	655713	276	655819	174				
655643	69	655715	172	655827	204				
655649	180	655717-11	277	655828	204				
655651	131	655730	164	655829	204				
655652	377	655731	163						
655654	377	655735	226						
655655	143,211	655737	81						
655656	211	655740	172						
655661	276	655741	240						
655662	276	655742	240						
655663	276	655743	36						
655664	276	655744	36						
655665	188	655745	149						
655666	188,190	655749	81						
655669	38	655752	191						
655670	38	655753	191						
655671	229	655754-41	191						
655672	229	655755	191						
655673	69	655756-41	191						
655674-7	211	655757	191						
655675-40	211	655758	188,191						
655676	81	655759	191						
655677	87	655760	191						
655680-7	88	655761	36						
655681-2	88	655762	36						
655682	212	655763	163						
655683	158	655765	164						
655684	159	655766	149						
655685	160	655767	149						
655686	160	655768	163						
655687	152	655771	331						
655688-40	152	655772	230						
655689	152	655773	276						
655690-40	152	655774	276						
655691	148	655775	276						
655692-40	148	655776	276						
655696	177	655777	230						
655697	135	655778-11	110						
655698	111	655779-11	110						
655700	230	655786-11	110						
655701	164	655789	163						
655702	164	655794	34						
655703	163	655801	160						
655704	172	655802	173						
655707	81	655805	164						
655708	36,187,189,190	655806	38						
655709	36,189,190	655807	173						
655710	276	655808	173						
655711	276	655814	34						

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660583-4	182	664619	245	665658-4	245				
660584-4	182	664624	158	665659-5	246				
660616-4	254	664630	159	665763-41	249				
661543-4	182	664656	225	665765-4	253				
661610	245	664677	245	665768	237				
661632	245	664869	280	665789-11	254				
661634	245	664931	159						
661750	254	665001	279						
661937-4	254	665010-41	254						
662190	245	665014-4	249						
662305	248	665015	185						
662307	248	665025-41	251						
662675-7	254	665053-41	254						
662850	251	665057	253						
663046-41	245	665059	253						
663059-41	245	665065-7	251						
663060-5	246	665096-4	159						
663070-40	245	665123-41	254						
663071-5	246	665182	278						
663105	270	665187	278						
663158	248	665189	278						
663209-40	245	665216	280						
663411-5	269	665218	280						
663492	61,85,91,102	665222	280						
663541-40	245	665282	225						
663553-4	254	665283	225						
663555-4	254	665284	279						
663579-4	254	665293	225						
663591-3	176	665334-5	246						
663593-40	176	665350	158						
663594	176	665410-41	253						
663652-4	254	665453	277						
663671-41	253	665476	247						
663672-41	250	665477	247						
663673-41	250	665478	248						
663694-7	254	665480	248						
663872-7	254	665568	248						
663901-5	246	665569-40	246						
663904-41	246	665573	278						
664044	170	665576	247						
664098-41	250	665577	247						
664099-7	250	665603-41	253						
664106-41	254	665611	280						
664128	75	665614	280						
664136	279	665615	280						
664166-4	254	665624	251						
664454	280	665625	225						
664457	279	665635	279						

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680163	120	682028	249,250	685414	212				
680166	120	682212	115	685415	212				
680169	120	682213	115	685416	37				
680172	120	682214	115	685418	212				
680175	121	682507	99	685420	212				
680178	121	682620	47	685429	144				
680181	121	682621	47	685430	331				
680274	101,241	682622	47	685431	331				
680275	101,241	682841	103	685432	331				
680448	75	683213	133	685433	331				
680449	75	683290	39	685434	331				
680450	75	683292	39	685435	331				
680451	75	683293	39	685442	144				
680470	108,111,244	683470	253	685449	53				
680477	75	683695	101,241,336	685469	145				
680494	99	683802	145	685476	174				
680522	108,244	683894	70	685484	113				
680524	133	683895	70						
680538	114	683896	70						
680564	108,111,244	683897	70						
680601	133	683898	70						
680604	99	683935	101,241						
680713	56	684132	53						
680714	56	684133	53						
680715	56	684552	316						
680728	133	684683	116						
680749	99	684699	336						
680772	75	684700	336						
680773	75	684872	336						
680905	108	685027	108,253						
680952	99	685028	108						
680953	139	685146	253						
680954	139	685197	108,244						
680961	139	685227	113						
681114	103	685229	249						
681115	103	685230	53						
681116	103	685231	53						
681117	99	685248	226						
681118	99	685259	226						
681119	103	685342	320						
681159	103	685384	47						
681266	75	685387	37						
681367	123	685388	37						
681370	123	685390	68,174,240						
681371	123	685391	68,174,240						
681372	123	685392	68,174,240						
681373	123	685393	68,174,240						
681474	241	685394	68,174,240						
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710008-2	345	710230-1	346	710438-1	346	710729-1	256	710967-3	255
710010-1	345	710230-2	346	710438-3	346	710729-2	256	710981-1	255
710010-3	345	710235-1	346	710446-1	347	710730-1	256	710981-3	255
710011-1	345	710235-2	346	710446-2	347	710730-2	256	710984-3	257
710011-2	345	710236-1	347	710447-1	347	710782-3	256	710985-3	257
710071-1	345	710236-3	347	710447-2	347	710783-1	255	710986-3	257
710071-2	345	710237-1	346	710448-1	347	710783-2	255	710987-3	257
710079-1	345	710237-2	346	710448-2	347	710783-3	255	710988-3	257
710079-2	345	710239-1	346	710450-1	347	710784-1	255	710989-3	257
710080-3	345	710239-2	346	710450-2	347	710784-2	255	710990-3	257
710082-1	346	710246-1	346	710489-1	345	710784-3	255	710991-3	257
710082-2	346	710246-2	346	710489-3	345	710805-1	255	710992-3	257
710086-1	345	710262-1	347	710504-1	255	710805-2	255	710998-3	255
710086-3	345	710262-2	347	710504-3	255	710805-3	255	711003-3	345
710087-1	346	710263-1	347	710505-1	255	710806-1	255	711022-3	256
710087-3	346	710263-2	347	710505-3	255	710806-2	255	711027-3	255
710091-1	345	710264-1	346	710506-1	255	710806-3	255	711049-1	256
710091-3	345	710264-2	346	710506-3	255	710808-3	256	711049-2	256
710094-1	345	710285-1	347	710507-1	255	710809-3	256	711059-3	256
710094-3	345	710285-2	347	710507-3	255	710811-1	347	711071-2	256
710095-1	346	710286-1	347	710519-1	261	710811-2	347	711072-2	256
710095-3	346	710286-3	347	710546-1	347	710846-3	256	711073-2	256
710124-1	345	710287-1	347	710546-2	347	710847-3	256	711074-2	257
710124-2	345	710287-2	347	710558-1	255	710848-3	256	711075-2	257
710127-1	346	710288-1	347	710558-3	255	710849-3	256	711076-2	257
710127-2	346	710288-3	347	710559-1	255	710850-3	256	711077-2	257
710132-1	345	710289-1	346	710559-3	255	710853-1	256	711146-2	257
710132-3	345	710289-2	346	710560-1	255	710853-2	256	711198-1	256
710151-1	345	710290-1	345	710560-3	255	710859-3	256	711198-3	256
710151-2	345	710290-3	345	710561-1	255	710870-3	256	711199-1	256
710155-1	346	710319-1	346	710561-3	255	710881-1	261	711199-3	256
710155-3	346	710319-3	346	710590-1	255	710944-3	345	711200-1	256
710158-1	346	710345-1	346	710590-3	255	710945-3	345	711200-3	256
710158-3	346	710345-3	346	710591-1	255	710946-3	345	711220-3	257
710176-1	345	710348-1	346	710591-3	255	710947-3	345	711221-3	257
710176-3	345	710348-2	346	710592-1	347	710949-1	257	711222-3	257
710197-1	346	710350-1	345	710592-2	347	710950-1	255	711302-3	257
710197-2	346	710350-3	345	710611-1	347	710950-3	255	711306-2	257
710209-1	345	710354-1	345	710611-2	347	710952-1	255	711308-3	257
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710210-2	346	710384-2	347	710702-2	346	710953-3	255		
710211-1	346	710388-1	345	710725-1	256	710957-1	257		
710211-2	346	710388-3	345	710725-2	256	710964-1	255		
710226-1	346	710389-1	346	710726-1	256	710964-3	255		
710226-2	346	710389-3	346	710726-2	256	710965-1	255		
710227-1	345	710390-1	345	710727-1	256	710965-3	255		
710227-3	345	710390-3	345	710727-2	256	710966-1	255		
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730018-3	344	730142-1	128
730019-1	299	730142-2	128
730019-2	299	730147-1	300
730019-4	299	730147-2	300
730019-5	299	730160-3	342
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730026-1	136	730177-3	344
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730029-1	344	730179-3	344
730029-3	344	730186-3	117
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730056-1	344	730191-1	300
730056-3	344	730191-2	300
730057-1	298	730191-4	300
730057-2	298	730191-5	300
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730058-2	298	730206-3	303,305
730060-1	344	730220-1	300
730060-3	344	730220-2	300
730076-1	342	730220-4	300
730093-1	300	730220-5	300
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