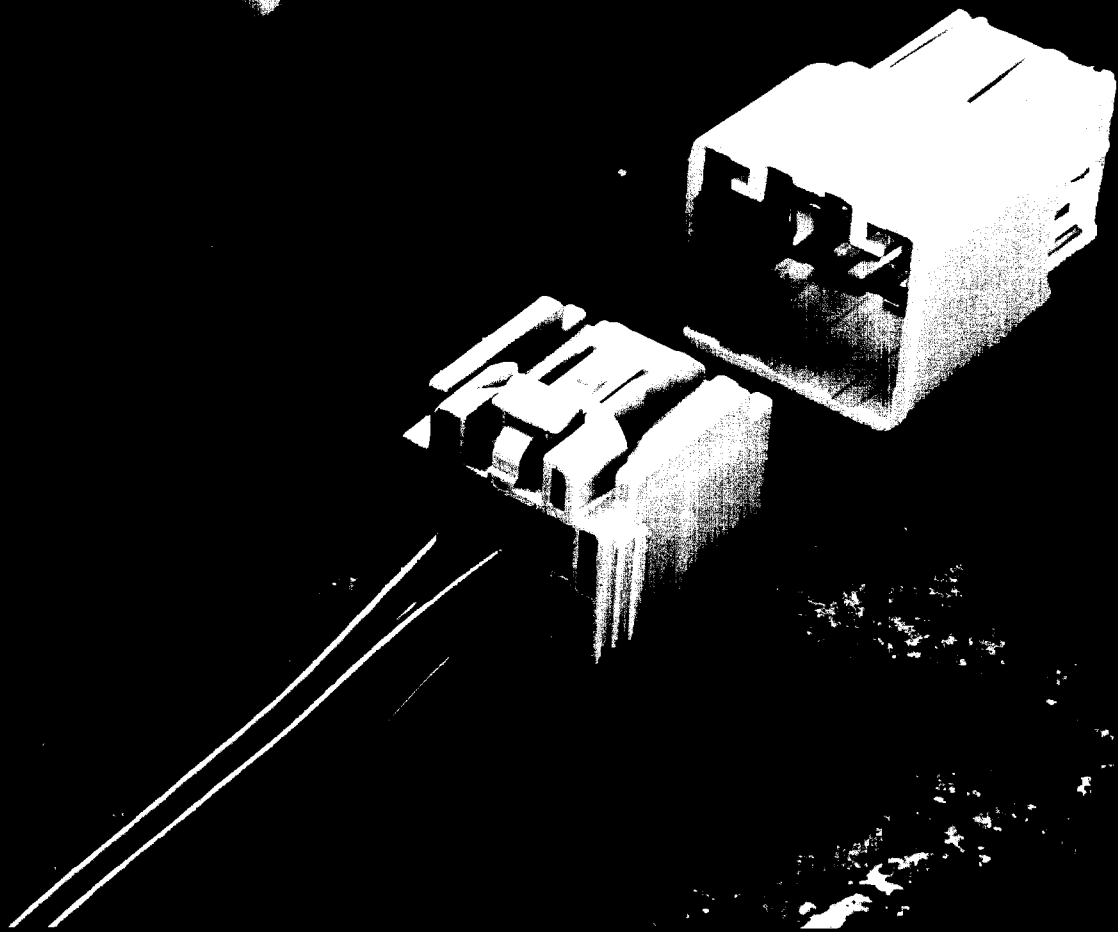
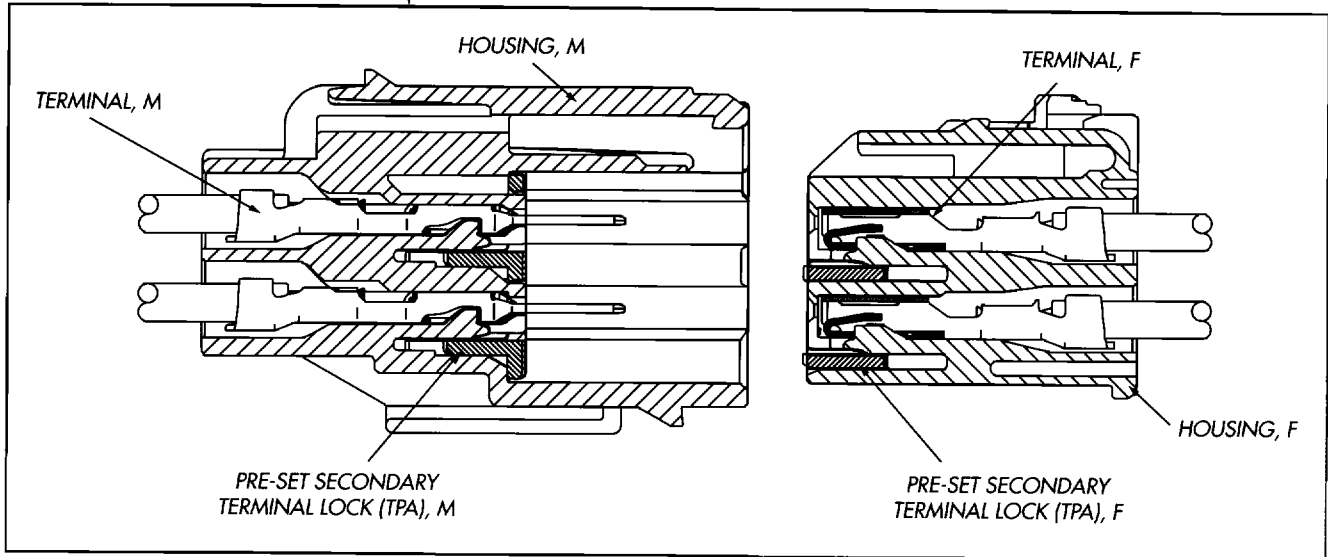


6.3 SERIES

UNSEALED CONNECTORS



Construction



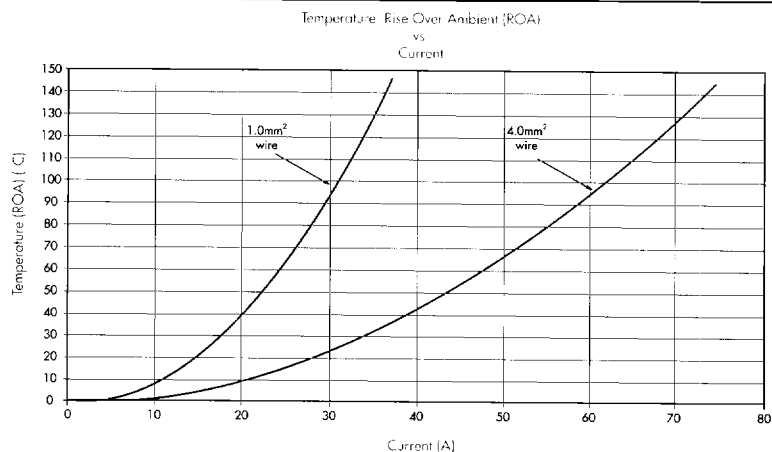
Specifications

Material	Connector	HPA
	Male Terminal	Copper Alloy (Sn Plate)
	Female Terminal	Copper Alloy (Sn Plate)
Operating Temperature Range		-40°C ~ 125°C (145°C max temp.) (USCAR Class III)
Current Capacity		(See Chart)
Voltage Drop		10mΩ Max (Term./Term.) (Crimp-To-Crimp)
Isolation Resistance		500VDC, 20MΩ Min
Dielectric Resistance		1000VAC (1 min.)
Applicable Wire Size		20AWG ~ 12AWG (0.50mm ² ~ 4.0mm ²)
Terminal Pitch		Horizontal: 8.50mm; Vertical: 7.30mm
Terminal-to-Connector Retention Force		90N Min
Connector-to-Connector Retention Force		110N Min

Current Rating Curve (Reference Only)

This data is based on single circuit/connector evaluation. Data should be used as reference only. Appropriate derating should be considered based upon specific application requirements.

0.35mm² rating curve not shown.
Current capability of terminal exceeds capacity of wire.



Terminal

UNIT: mm

Male Terminal

Material: Copper Alloy Thickness: $t=0.4$

Female Terminal

Material: Copper Alloy Thickness: $t=0.4$

Description	Part Number	Plating	Applicable Wire Size		
			Europe (mm ²)	U.S.A. (AWG)	Japan (mm ²)
Male Terminal	7114-4120-02	Sn	0.5 ~ 1.0	20 ~ 16	0.5 ~ 1.25
	7114-4121-02	Sn	1.5 ~ 2.5	14	2.0
	7114-4122-02	Sn	4.0	12	3.0
Female Terminal	7116-4120-02	Sn	0.5 ~ 1.0	20 ~ 16	0.5 ~ 1.25
	7116-4121-02	Sn	1.5 ~ 2.5	14	2.0
	7116-4122-02	Sn	4.0	12	3.0

Retainer Clip/Bracket Dimensions

UNIT: mm

Part Number	Panel Hole Requirements
7047-9580 (Ref.)	φ6.5mm

Part Number Summary Chart

Part Name	Male	Female
Terminal	7114-4120-02	7116-4120-02
	7114-4121-02	7116-4121-02
	7114-4122-02	7116-4122-02
Applicable Clip	7047-9580 (Ref)	N/A

Pole	Polarity	Color	Male Part #	Female Part #
2	A	Light Grey	7282-5590-40	7283-5590-40
4	A	Light Grey	7282-5594-40	7283-5594-40
6	A	Light Grey	N/A	7283-5591-40
6	B	Green	N/A	7283-5592-60

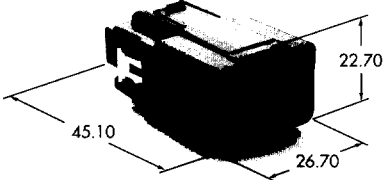
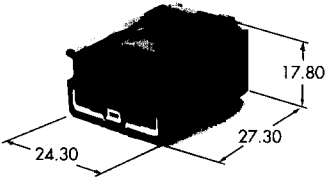
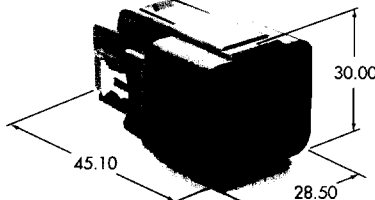
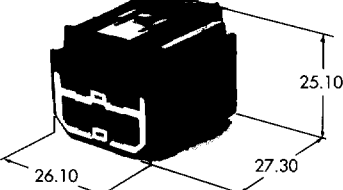
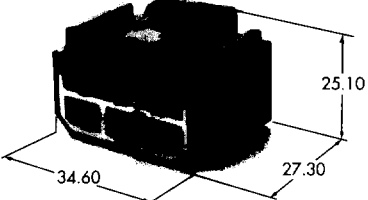
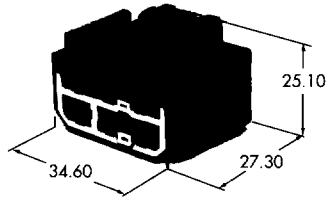
*Applicable Terminal Removal Tool/Dimensions

Refer to Page 53 for YES Connector Terminal Removal Tool. Order Number: G0406 (PA Type).



Housing Material: HPA

UNIT: mm

Poles	Male Housing	Female Housing
2	 <p>45.10 26.70 22.70</p> <p>7282-5590-40</p>	 <p>24.30 27.30 17.80</p> <p>7283-5590-40</p>
4	 <p>45.10 28.50 30.00</p> <p>7282-5594-40</p>	 <p>26.10 27.30 25.10</p> <p>7283-5594-40</p>
6	<p>N/A</p>	 <p>34.60 27.30 25.10</p> <p>7283-5591-40</p>
6	<p>N/A</p>	 <p>34.60 27.30 25.10</p> <p>7283-5592-60</p>

