

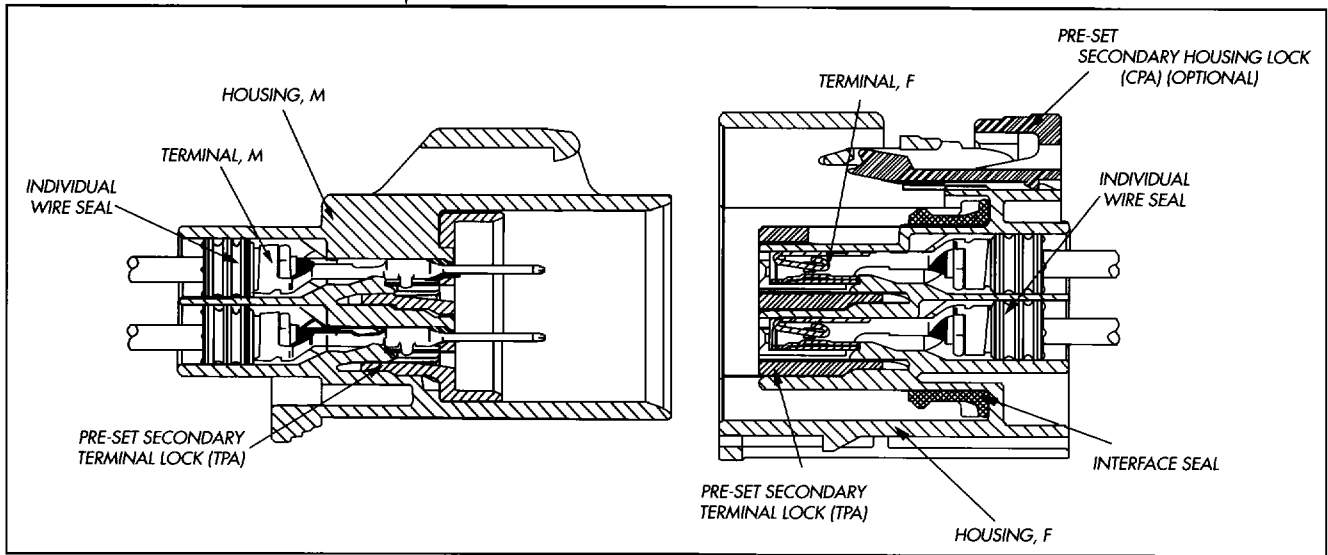
# 2.8 SERIES

SEALED CONNECTORS



CONNECTORS

### Construction



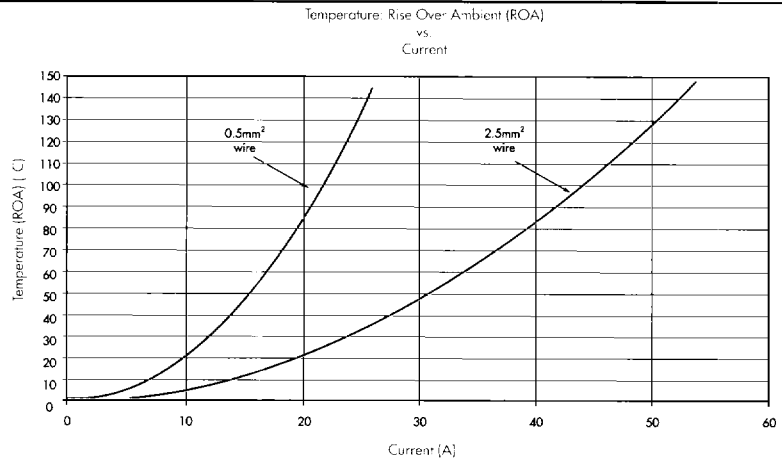
### Specifications

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		22AWG ~ 14AWG (0.35mm <sup>2</sup> ~ 2.5mm <sup>2</sup> )
Terminal Pitch		Horizontal: 6.80mm; Vertical: 6.80mm
Sealing Performance (Air Leak Pressure)		48kPa Min (Pre-Heat Soak); 28kPa (Post-Heat Soak)
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.

0.35mm<sup>2</sup> rating curve not shown.  
Current capability of terminal exceeds capacity of wire.



### Terminal

UNIT: mm

**Male Terminal**

Material: Copper Alloy      Thickness: t=0.3

**Female Terminal**

Material: Copper Alloy      Thickness: t=0.3

Description	Part Number	Plating	Applicable Wire Size		
			Europe (mm <sup>2</sup> )	U.S.A. (AWG)	Japan (mm <sup>2</sup> )
Male Terminal	7114-4150-02	Sn	0.35 ~ 0.5	22 ~ 20	0.3 ~ 0.5
	7114-4151-02	Sn	0.75 ~ 1.0	18 ~ 16	0.85 ~ 1.25
	7114-4152-02	Sn	1.5 ~ 2.5	14	2.0
Female Terminal	7116-4150-02	Sn	0.35 ~ 0.5	22 ~ 20	0.3 ~ 0.5
	7116-4151-02	Sn	0.75 ~ 1.0	18 ~ 16	0.85 ~ 1.25
	7116-4152-02	Sn	1.5 ~ 2.5	14	2.0

### Cable Seal

UNIT: mm

Description	Part Number	Color	Material	Wire O.D. Range
Cable Seal	7158-3111-60	Green	Silicone	1.19 ~ 1.9
	7158-3112-70	Yellow	Silicone	1.88 ~ 2.1
	7158-3113-40	White	Silicone	2.18 ~ 3.0
Unused Cavity Plug	7158-3114-90	Blue	Silicone	N/A

### Retainer Clip/Bracket Dimensions

UNIT: mm

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



# Part Number Summary Chart

Part Name	Male	Female
<i>Terminal</i>	7114-4150-02	7116-4150-02
	7114-4151-02	7116-4151-02
	7114-4152-02	7116-4152-02
<i>Cable Seal</i>	7158-3111-60	
	7158-3112-70	
	7158-3113-40	
<i>Unused Cavity Plug</i>	7158-3114-90	
<i>Applicable Clip</i>	N/A	7047-9580 (Ref)

Pole	Polarity	Color	Male Part #	Female Part # (w/o CPA)	Female Part # (w/CPA)
2	A	Dark Grey	7282-5575-10	7283-5575-10	7283-5922-10
3	A	Dark Grey	7282-5576-10	7283-5576-10	7283-5923-10
4	A	Dark Grey	7282-5570-10	7283-5570-10	7283-5924-10
4	B	Black	7282-5571-30	7283-5571-30	7283-5925-30
6	A	Dark Grey	7282-5577-10	7283-5577-10	7283-5926-10
8	A	Dark Grey	7282-5574-10	7283-5574-10	7283-5927-10

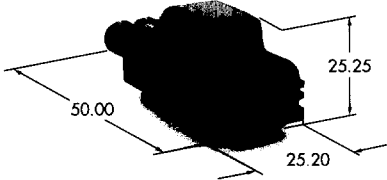
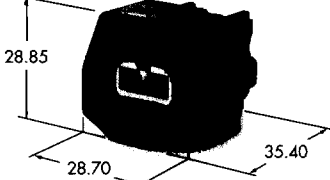
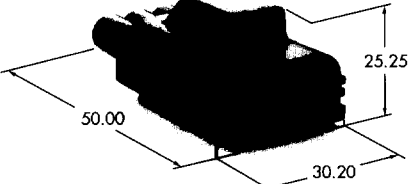

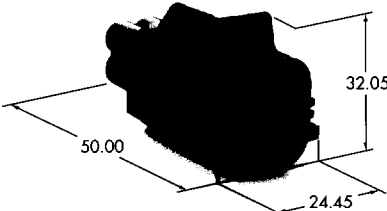
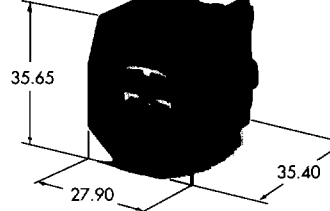
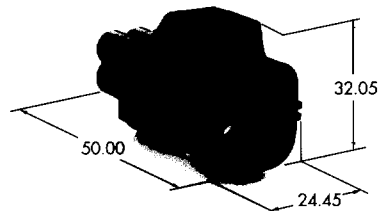
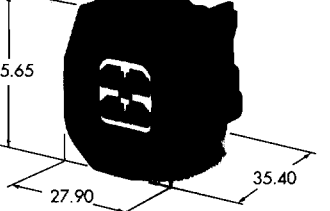
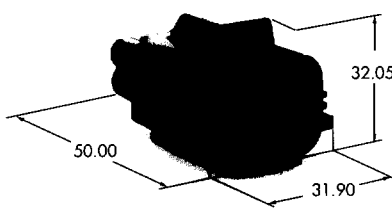
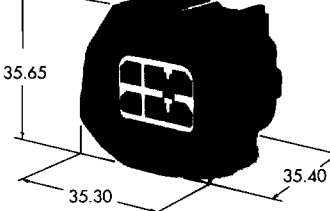
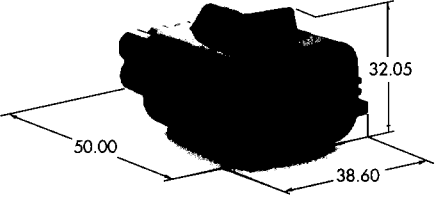
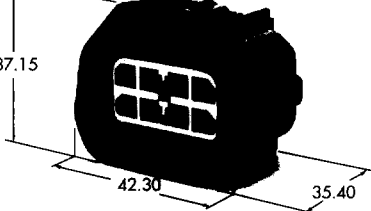
### \*Applicable Terminal Removal Tool/Dimensions

Refer to Page 53 for YESC Connector Terminal Removal Tool.  
Order Number: X39899-J374.



**Housing Material: HPA**

UNIT: mm

Poles	Male Housing	Female Housing
2	 <p data-bbox="509 573 673 604"><b>7282-5575-10</b></p>	 <p data-bbox="1102 573 1266 604"><b>7283-5575-10</b></p>
3	 <p data-bbox="509 846 673 877"><b>7282-5576-10</b></p>	 <p data-bbox="1102 846 1266 877"><b>7283-5576-10</b></p>
4	 <p data-bbox="509 1115 673 1146"><b>7282-5570-10</b></p>	 <p data-bbox="1102 1115 1266 1146"><b>7283-5570-10</b></p>
4	 <p data-bbox="509 1388 673 1419"><b>7282-5571-30</b></p>	 <p data-bbox="1102 1388 1266 1419"><b>7283-5571-30</b></p>
6	 <p data-bbox="509 1661 673 1692"><b>7282-5577-10</b></p>	 <p data-bbox="1102 1661 1266 1692"><b>7283-5577-10</b></p>
8	 <p data-bbox="509 1934 673 1965"><b>7282-5574-10</b></p>	 <p data-bbox="1102 1934 1266 1965"><b>7283-5574-10</b></p>

