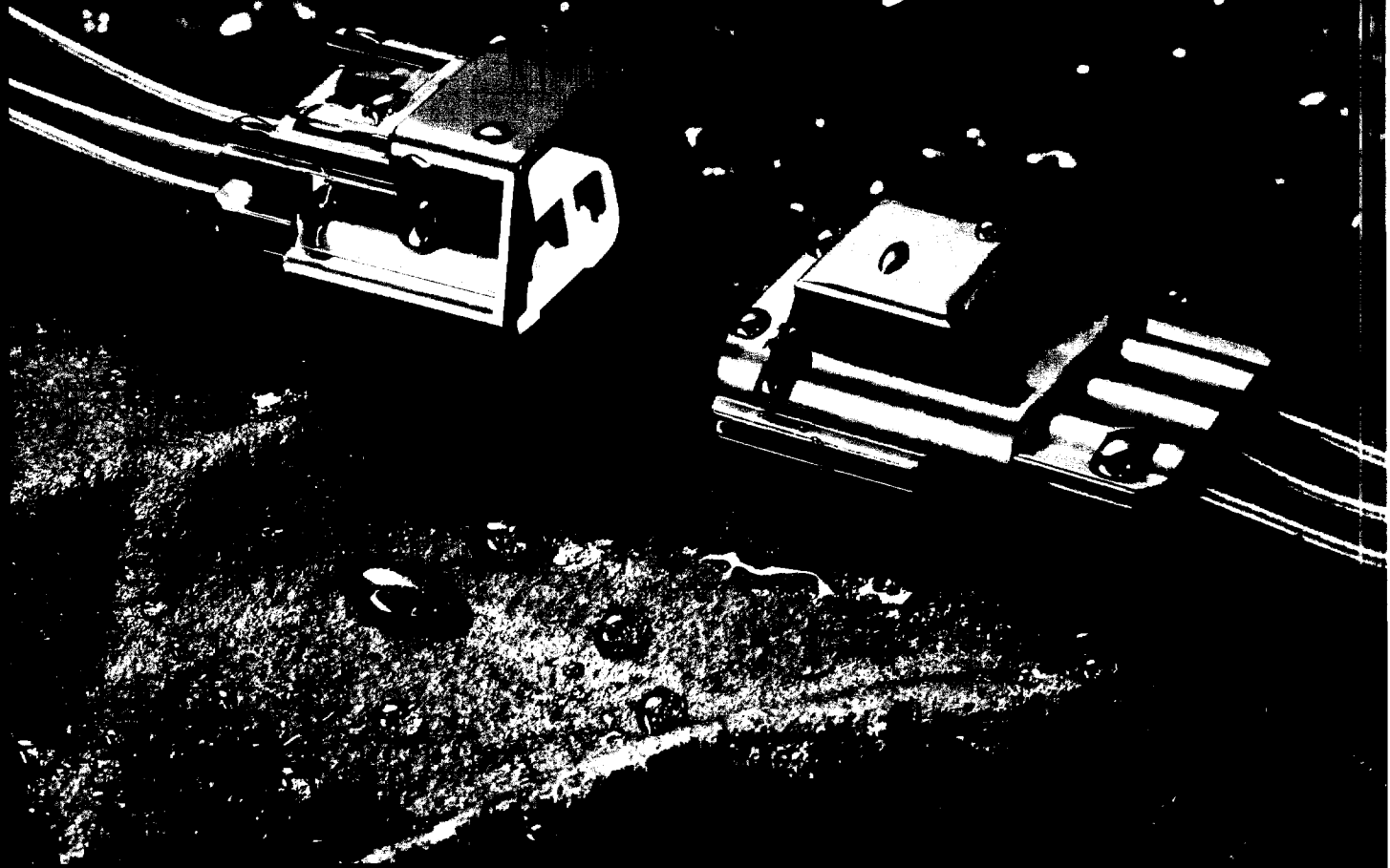
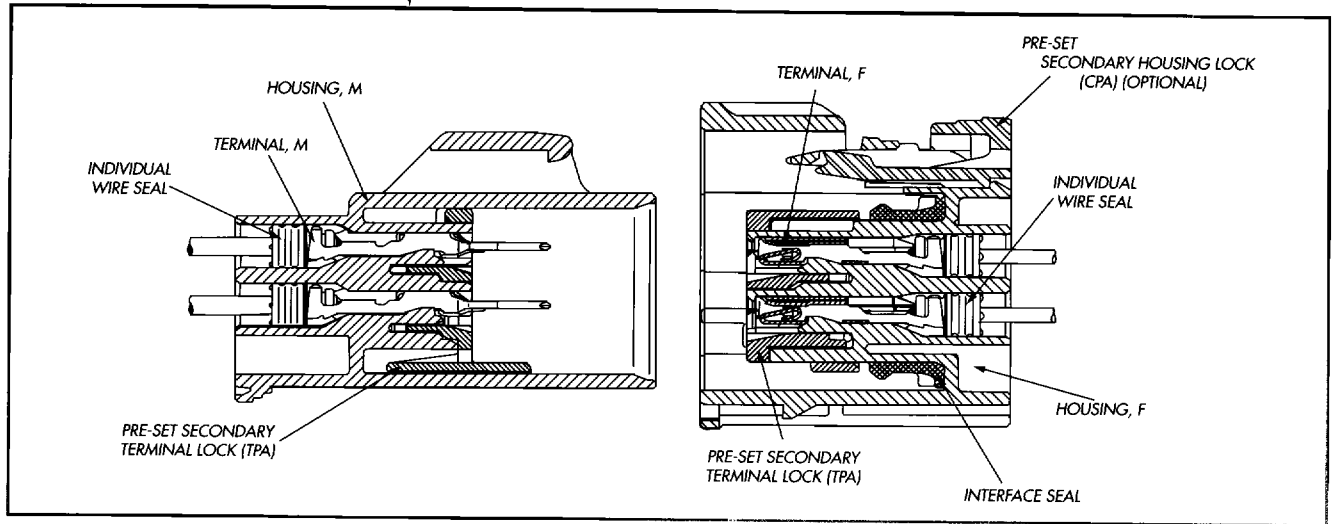


1.5 SERIES

SEALED CONNECTORS



Construction



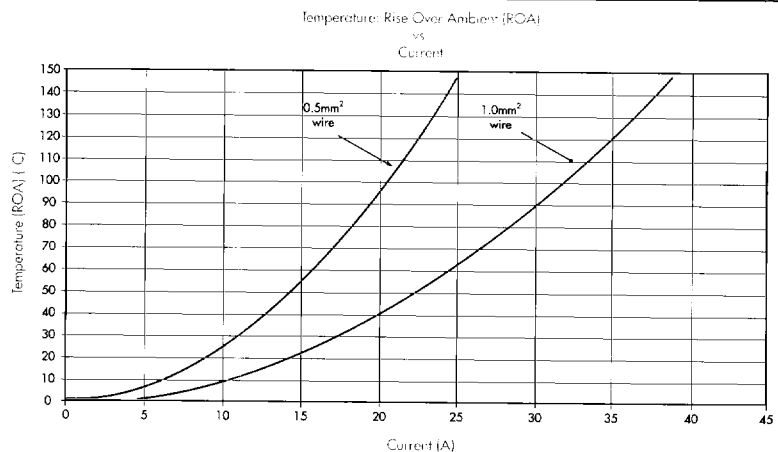
Specifications

Material	Connector	HPA
	Male Terminal	Copper Alloy (Sn/Au Plate)
	Female Terminal	Copper Alloy (Sn/Au 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 ~ 16AWG (0.35mm ² ~ 1.0mm ²)
	Terminal Pitch	Horizontal: 5.50mm; Vertical: 6.50mm
	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.

0.35mm² 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: $t=0.25$

Description	Part Number	Plating	Applicable Wire Size		
			Europe (mm ²)	U.S.A. (AWG)	Japan (mm ²)
Male Terminal	7114-4102-02	Sn	0.35 ~ 0.5	22 ~ 20	0.3 ~ 0.5
	7114-4103-02	Sn	0.75 ~ 1.0	18 ~ 16	0.85 ~ 1.25
	7114-4102-08	Au	0.35 ~ 0.5	22 ~ 20	0.3 ~ 0.5
	7114-4103-08	Au	0.75 ~ 1.0	18 ~ 16	0.85 ~ 1.25
Female Terminal	7116-4102-02	Sn	0.35 ~ 0.5	22 ~ 20	0.3 ~ 0.5
	7116-4103-02	Sn	0.75 ~ 1.0	18 ~ 16	0.85 ~ 1.25
	7116-4102-08	Au	0.35 ~ 0.5	22 ~ 20	0.3 ~ 0.5
	7116-4103-08	Au	0.75 ~ 1.0	18 ~ 16	0.85 ~ 1.25

Cable Seal

UNIT: mm

Description	Part Number	Color	Material	Wire O.D. Range
Cable Seal	7158-3030-50	Red	Silicone	1.19 ~ 1.70
	7158-3031-90	Blue	Silicone	1.60 ~ 2.34
Unused Cavity Plug	7158-3032-60	Green	Silicone	N/A

Retainer Clip/Bracket Dimensions

UNIT: mm

Part Number	Panel Hole Requirements
7047-9580 (Ref.)	$\phi 6.5\text{mm}$



Part Number Summary Chart

Part Name	Male	Female
Terminal	7114-4102-02	7116-4102-02
	7114-4103-02	7116-4103-02
	7114-4102-08	7116-4102-08
	7114-4103-08	7116-4103-08
Cable Seal	7158-3030-50	
	7158-3031-90	
Unused Cavity Plug	7158-3032-60	
Applicable Clip	N/A	7047-9580 (Ref)

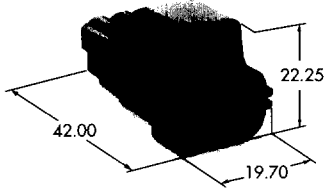
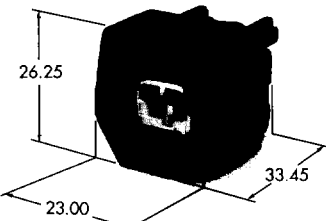
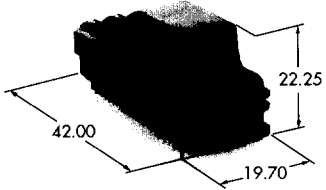
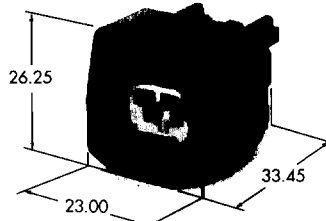
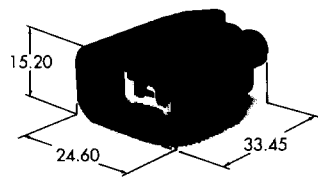
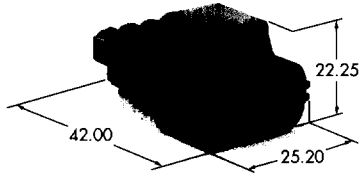
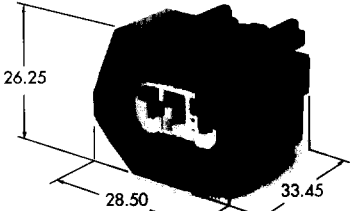
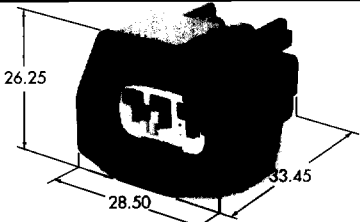
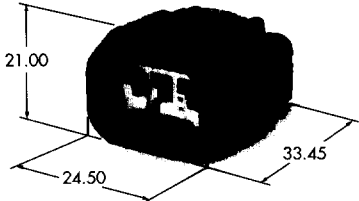
Pole	Polarity	Color Description	Male Part #	Female Part # (w/o CPA)	Female Part # (w/CPA)
2	A	Black	7282-5548-30	7283-5548-30	7283-5549-30
2	B	Dark Grey	7282-5558-10	7283-5558-10	7283-5559-10
2		Black/Direct only	N/A	7283-5689-30	N/A
3	A	Black	7282-5541-30	7283-5541-30	7283-5542-30
3	B	Dark Grey	N/A	7283-5691-10	7283-5880-10
3		Black/Direct only	N/A	7283-5537-30	N/A
4	2-Row A	Dark Grey	7282-5543-10	7283-5543-10	7283-5544-10
4	2-Row B	Black	7282-5889-30	7283-5889-30	N/A
4	1-Row A	Black	N/A	7283-5885-30	7283-5886-30
5	A	Black	N/A	7283-5547-30	7283-5550-30
6	A	Dark Grey	7282-5553-10	7283-5553-10	7283-5554-10
6	A	Black	7282-5553-30	7283-5553-30	7283-5554-30
8	A	Dark Grey	7282-5684-10	7283-5684-10	7283-5685-10
8	A	Black	7282-5684-30	7283-5684-30	7283-5685-30
10	2-Row A	Black	7282-5946-30	7283-5946-30	7283-5947-30
10	2-Row B	Dark Grey #1 Cav Neg	N/A	N/A	7283-5694-10
10	2-Row B	Dark Grey #5, #9 Cav Neg	N/A	N/A	7283-5695-10
10	2-Row B	Black #5, #9 Cav Neg	N/A	N/A	7283-5695-30
10	5-Row A	Black	N/A	7283-5696-30	7283-5697-30
12	A	Dark Grey	7282-5545-10	7283-5545-10	7283-5546-10
12	A	Black	7282-5545-30	7283-5545-30	7283-5546-30

*Applicable Terminal Removal Tool/Dimensions

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

Housing Material: HPA

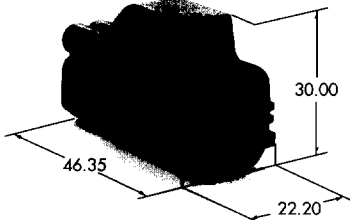
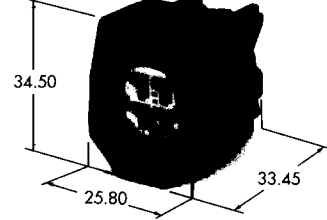
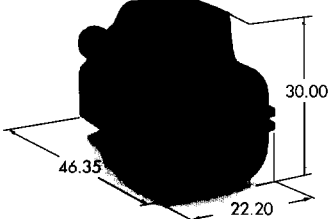
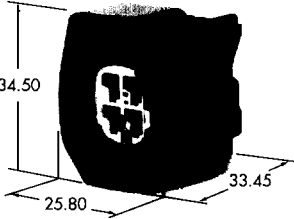
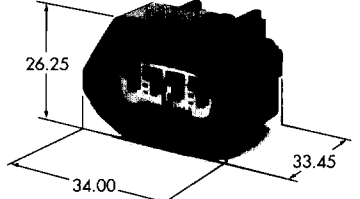
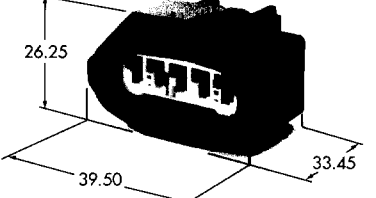

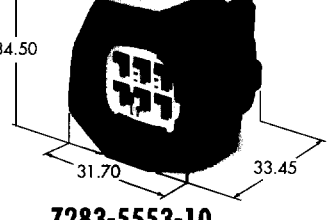

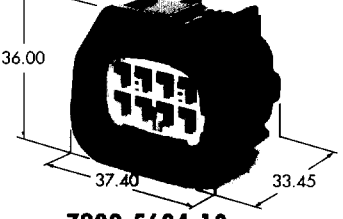
UNIT: mm

Poles	Male Housing	Female Housing
2	 <p>7282-5548-30</p>	 <p>7283-5548-30</p>
2	 <p>7282-5558-10</p>	 <p>7283-5558-10</p>
2	<p>N/A</p>	 <p>7283-5689-30</p>
3	 <p>7282-5541-30</p>	 <p>7283-5541-30</p>
3	<p>N/A</p>	 <p>7283-5691-10</p>
3	<p>N/A</p>	 <p>7283-5537-30</p>

YES

Housing Material: HPA

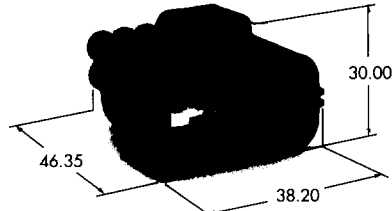
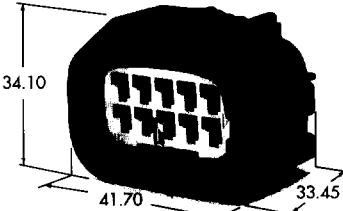
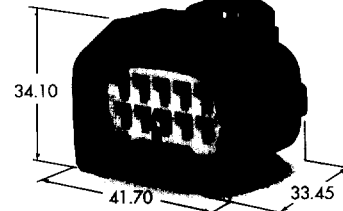
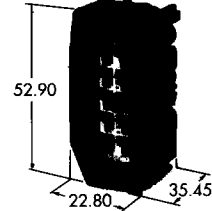
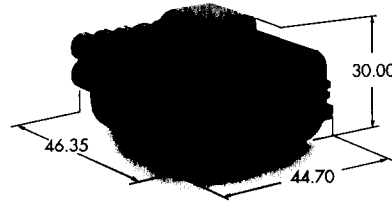
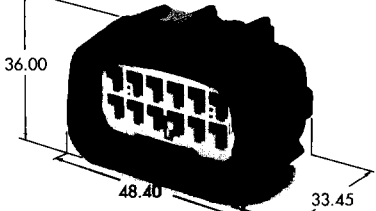
UNIT: mm

Poles	Male Housing	Female Housing
4	 <p>Dimensions: 46.35 (width), 30.00 (height), 22.20 (depth)</p> <p>7282-5543-10</p>	 <p>Dimensions: 34.50 (width), 33.45 (depth), 25.80 (height)</p> <p>7283-5543-10</p>
4	 <p>Dimensions: 46.35 (width), 30.00 (height), 22.20 (depth)</p> <p>7282-5889-30</p>	 <p>Dimensions: 34.50 (width), 33.45 (depth), 25.80 (height)</p> <p>7283-5889-30</p>
4	N/A	 <p>Dimensions: 34.00 (width), 33.45 (depth), 26.25 (height)</p> <p>7283-5885-30</p>
5	N/A	 <p>Dimensions: 39.50 (width), 33.45 (depth), 26.25 (height)</p> <p>7283-5547-30</p>
6	 <p>Dimensions: 46.35 (width), 30.00 (height), 28.20 (depth)</p> <p>7282-5553-10</p>	 <p>Dimensions: 34.50 (width), 33.45 (depth), 31.70 (height)</p> <p>7283-5553-10</p>
8	 <p>Dimensions: 46.35 (width), 30.00 (height), 33.70 (depth)</p> <p>7282-5684-10</p>	 <p>Dimensions: 36.00 (width), 33.45 (depth), 37.40 (height)</p> <p>7283-5684-10</p>



Housing Material: HPA

UNIT: mm

Poles	Male Housing	Female Housing
10	 <p>7282-5946-30</p>	 <p>7283-5946-30</p>
10	N/A	 <p>7283-5695-30</p>
10	N/A	 <p>7283-5696-30</p>
12	 <p>7282-5545-10</p>	 <p>7283-5545-10</p>

