

6.3 SERIES

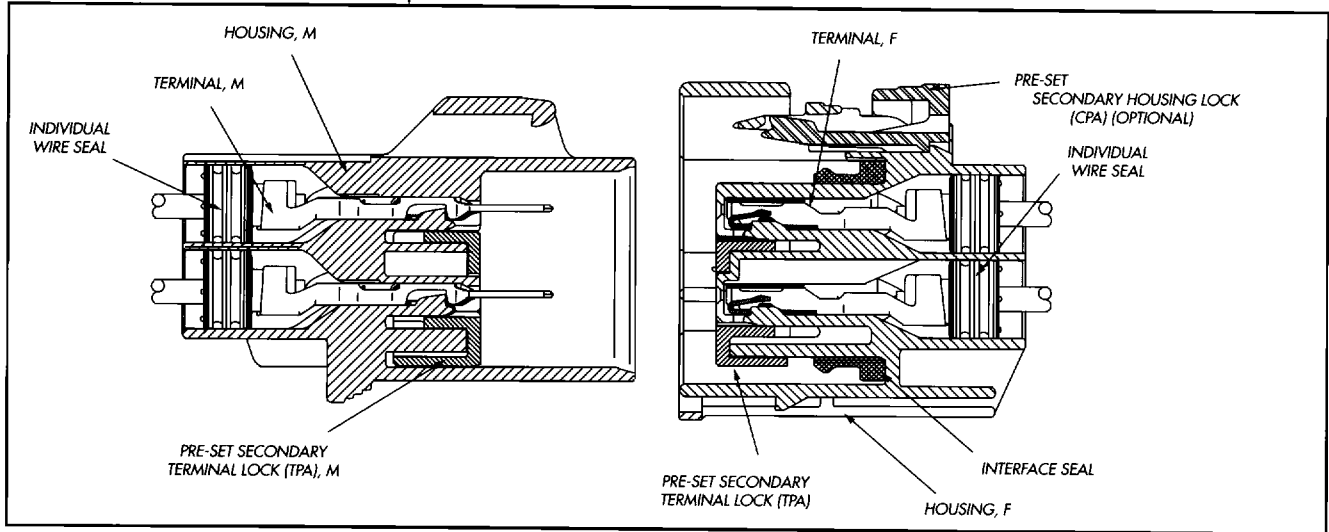
SEALED CONNECTORS



6.3 x 0.8

sealed connection system

Construction



Specifications

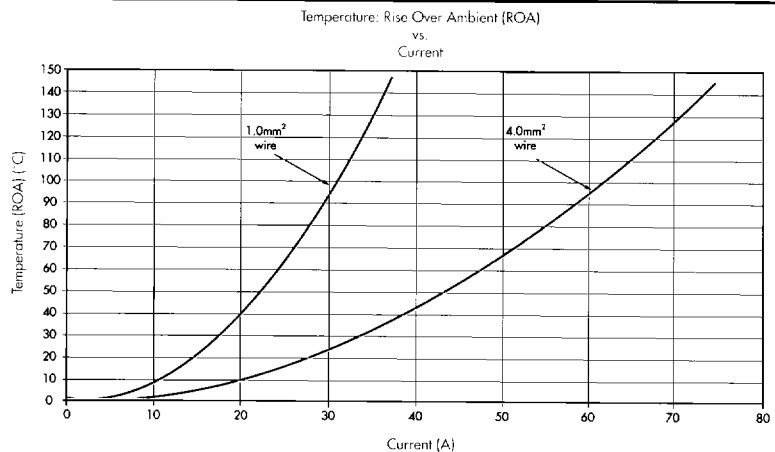
| | | |
|---|-----------------|---|
| Material | Connector | HPA |
| | Male Terminal | Copper Alloy (Sn Plate) |
| | Female Terminal | Copper Alloy (Sn Plate) |
| Operating Temperature Range | | -40°C ~125°C (145°C max temp.) (USCAR Class III) |
| Current Capacity | | (See Chart) |
| Voltage Drop | | 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: 9.80mm; Vertical: 9.80mm |
| 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.

0.35mm² 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 | 7114-4140-02 | Sn | 0.5 ~ 1.0 | 20 ~ 16 | 0.5 ~ 1.25 |
| | 7114-4141-02 | Sn | 1.5 ~ 2.5 | 14 | 2.0 |
| | 7114-4142-02 | Sn | 4.0 | 12 | 3.0 |
| Female Terminal | 7116-4140-02 | Sn | 0.5 ~ 1.0 | 20 ~ 16 | 0.5 ~ 1.25 |
| | 7116-4141-02 | Sn | 1.5 ~ 2.5 | 14 | 2.0 |
| | 7116-4142-02 | Sn | 4.0 | 12 | 3.0 |

Cable Seal

UNIT: mm

| Description | Part Number | Color | Material | Wire O.D. Range |
|--------------------|--------------|-------|----------|-----------------|
| Cable Seal | 7158-3081-50 | Red | Silicone | 1.4 ~ 2.1 |
| | 7158-3082-90 | Blue | Silicone | 2.18 ~ 3.0 |
| | 7158-3083 | Black | Silicone | 3.1 ~ 3.7 |
| Unused Cavity Plug | 7158-3080-60 | Green | 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 |
|--------------------|--------------|-----------------|
| Terminal | 7114-4140-02 | 7116-4140-02 |
| | 7114-4141-02 | 7116-4141-02 |
| | 7114-4142-02 | 7116-4142-02 |
| Cable Seal | 7158-3081-50 | |
| | 7158-3082-90 | |
| | 7158-3083 | |
| Unused Cavity Plug | 7158-3080-60 | |
| Applicable Clip | N/A | 7047-9580 (Ref) |

| Pole | Polarity | Color | Male Part # | Female Part # (w/o CPA) | Female Part # (w/CPA) |
|------|----------|-----------|--------------|-------------------------|-----------------------|
| 2 | A | Dark Grey | 7282-5596-10 | 7283-5596-10 | 7283-5928-10 |
| 4 | A | Dark Grey | 7282-5595-10 | 7283-5595-10 | 7283-5929-10 |

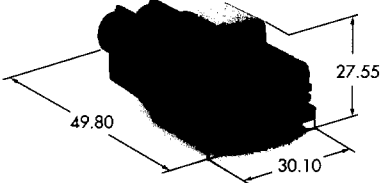
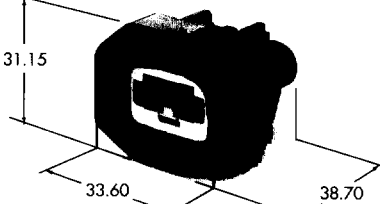
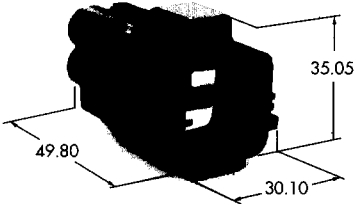
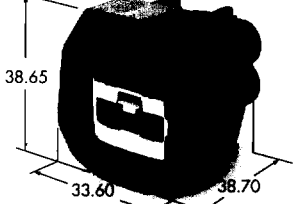
*Applicable Terminal Removal Tool/Dimensions

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



Housing Material: HPA

UNIT: mm

| <i>Poles</i> | <i>Male Housing</i> | <i>Female Housing</i> |
|--------------|--|--|
| 2 |  <p style="text-align: center;">7282-5596-10</p> |  <p style="text-align: center;">7283-5596-10</p> |
| 4 |  <p style="text-align: center;">7282-5595-10</p> |  <p style="text-align: center;">7283-5595-10</p> |

