

Introduction



Features

- CPA capability
 - Assures connector mating
- USCAR & SDS compatibility
 - Standard interface for multiple applications
- 2.54 mm x 2.54 mm spacing
 - Typically smaller than competition
- 8 keying options
 - Maximum design flexibility
- Tang-free contact
 - Easier harness handling/production
- Good Stress Relaxation performance (70 % remaining after 3000 hr @ 150 °C)
 - Used in USCAR Class III range (-40 °C to +125 °C)

- 0.22 to 0.75 mm² wire range
 - Two terminal sizes cover 3–8 amp requirements (20 °C T-rise)
- 10 mating cycles (tin, silver or gold)
 - Robust receptacle to handle multiple mates
- Accepts up to 1.0 mm wide blade
 - Large interface flexibility and robustness
- Same shorting bar design for sealed, unsealed, gold and tin systems
 - Economical shorting bar solution

Applications

- Airbag Restraint Modules
- Power Control Modules
- Generic Control Modules
- Unsealed Harness Wiring
 - Inline Connections
 - Instrument Panel
 - Audio
 - Mirror
 - Switches
 - Actuators
 - Overhead Consoles
- Sealed Harness Wiring
 - Mass Air Flow
 - Passenger Sensing

Product Offering

- Tin, Silver and Gold Platings
- Wire-to-Wire
- Wire-to-PC Board
- Wire-to-Device
- Unsealed and Sealed
- Hand Mate and Lever Actuated

Receptacle Contacts

Technical Features

Insertion Force:

- Tin Terminals: <4.0 N
- Silver Terminals: <3.5 N
- Gold Terminals: <2.0 N

Terminal Retention Force:

- >40 N (Preliminary)
- >75 N (Permanent)

Temperature Classification (according to USCAR):

- Tin Terminals Class II:
-40 °C to +120 °C max.
up to +125 °C max.
- Silver and Gold Terminals Class III:
-40 °C to +145 °C max.

Vibration (per USCAR):

- Unsealed Applications:
Body and Instrument Panel Profile
- Sealed Applications:
Engine Compartment Profile

Dielectric Strength:

1,000 V AC min.

Voltage Drop (Initial Interface):

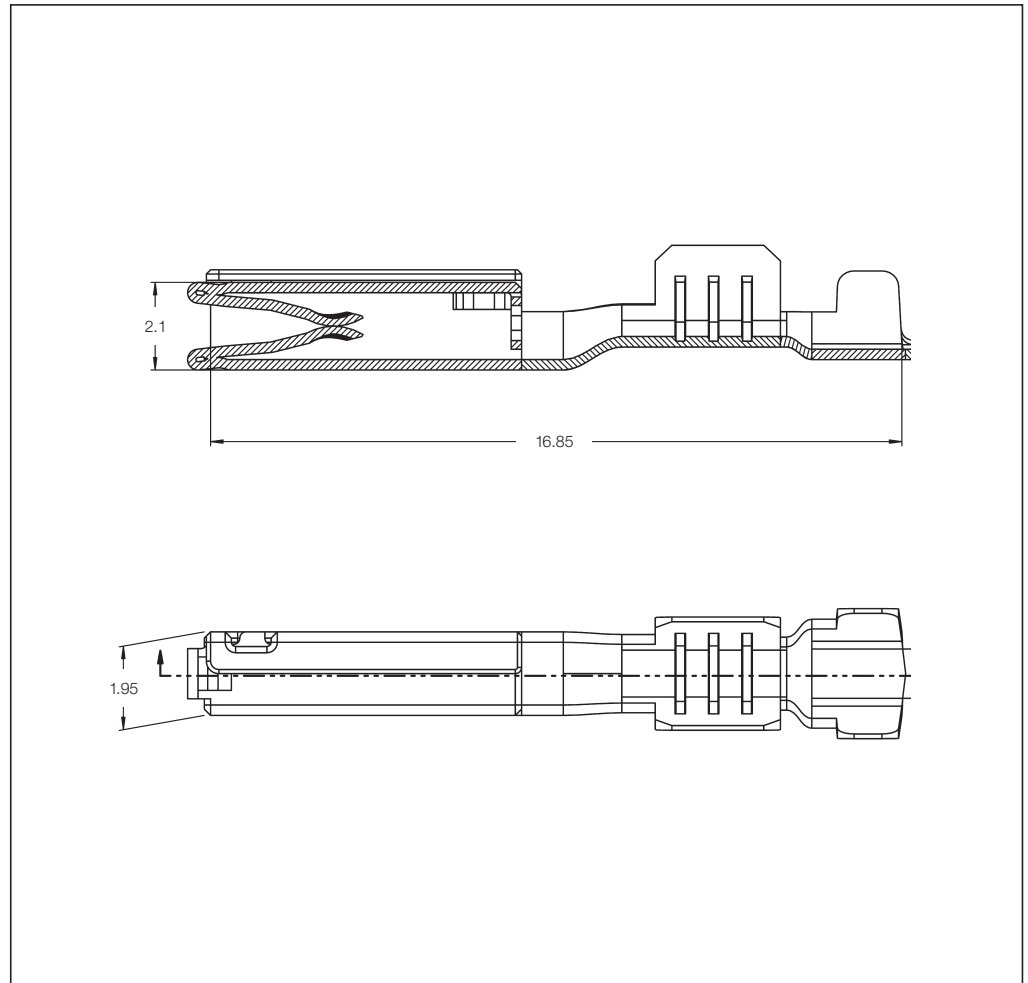
1.0 mV/A max.

Isolation Resistance:

20 MW @ 500 DC 500 V min.

Extraction Tool:

Part No. **1393477-6**



Receptacle Contacts

| Wire Size Range (mm ²) | Insulation Diameter (mm) | Material and Finish | Part Numbers | | | | | |
|------------------------------------|--------------------------|---------------------|--------------|------------------|-------------|------------------|------------|-------------|
| | | | Strip Form | Package Quantity | Loose-Piece | Package Quantity | Applicator | Hand Tool |
| 0.22-0.35 | 1.10-1.65 | Gold plated | 1393364-1 | 10,000 | | | | |
| | | Gold shunted | 1393364-2 | 10,000 | - | - | 1528005 | 6-1393462-4 |
| | | Tin plated | 1393367-1 | 10,000 | | | | |
| | | Silver plated | 1393367-2 | 10,000 | | | | |
| 0.50-0.75 | 1.40-2.06 | Gold plated | 1393365-1 | 10,000 | | | | |
| | | Gold shunted | 1393365-2 | 10,000 | - | - | 1528268 | 6-1393462-5 |
| | | Tin plated | 1393366-1 | 10,000 | | | | |
| | | Silver plated | 1393366-2 | 10,000 | | | | |

Note: All Part Numbers are RoHS and ELV compliant.

Pin Contacts

Technical Features

Pin Bend Strength:

>6 N
(Held at box, force applied at tip)

Terminal Retention Force:

>40 N (Preliminary)
>80 N (Permanent)

Temperature Classification (according to USCAR)

- Tin Terminals Class II:
-40 °C to +120 °C max.
up to +125 °C max.
- Gold Terminals Class III:
-40 °C to +145 °C max.

Vibration (per USCAR)

Unsealed Applications:
Body and Instrument Panel
Profile

Dielectric Strength:

1,000 V AC min.

Voltage Drop (Initial Interface):

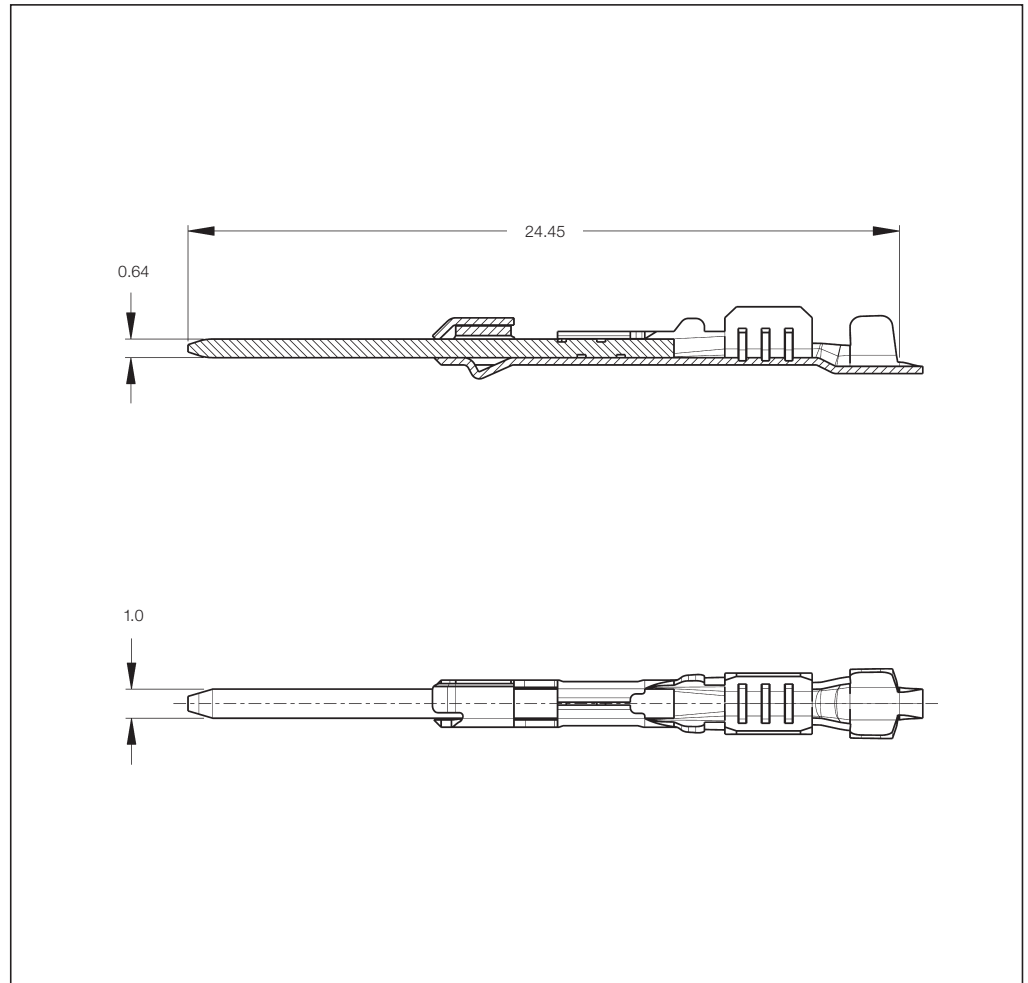
1.0 mV/A max.

Isolation Resistance:

20 MW @ 500 DC 500 V min.

Extraction Tool:

Part No. **1393477-6**



Pin Contacts

| Wire Size Range (mm ²) | Insulation Diameter (mm) | Material and Finish | Part Numbers | | | | | |
|------------------------------------|--------------------------|---------------------|--------------------------|------------------|-------------|------------------|------------|-------------|
| | | | Strip Form | Package Quantity | Loose-Piece | Package Quantity | Applicator | Hand Tool |
| 0.22-0.35 | 1.10-1.65 | Gold plated | 3-1419158-1 ^① | 10,000 | | | | |
| | | Tin plated | 1-1419158-6 ^① | 10,000 | - | - | - | 6-1393462-4 |
| | | Gold plated | 1438299-1 ^② | 10,000 | | | | |
| | | Tin plated | 1438299-2 ^② | 10,000 | | | | |
| 0.50-0.75 | 1.40-2.06 | Gold plated | 2-1419158-3 ^① | 10,000 | | | | |
| | | Tin plated | 2-1419158-5 ^① | 10,000 | - | - | - | 6-1393462-5 |
| | | Gold plated | 1438299-3 ^② | 10,000 | | | | |
| | | Tin plated | 1438299-4 ^② | 10,000 | | | | |

Note: All Part Numbers are RoHS and ELV compliant.

① Standard Reeling Direction (Fig. 1)

② Optional Reeling Direction for Mini Applicator (Fig. 2)

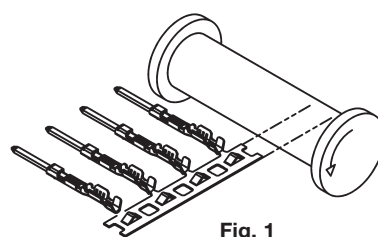


Fig. 1

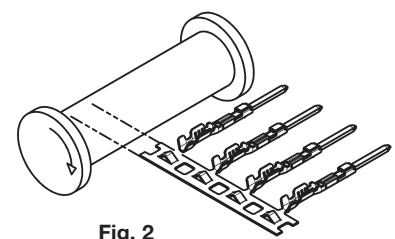


Fig. 2

Engineering Notes

