**Part Number :** 643181019
**Product Description :** .635mm, 1.50mm, 2.80mm, Power CMC Connector, 28 Circuits, Left Wire Output, Brown Coding, Mat Sealed
**Series Number :** 64318
**Status :** Active
**Product Category :** Connector Housings



## Documents and Resources

### Drawings

643181019_sd.pdf

### 3D Models and Design Files

STEP AP242

SOLIDWORKS

Creo

### Specifications

AS-64318-002-001.pdf

AS-64318-002-CH-001.pdf

AS-64318-002-SP-001.pdf

AS-98420-001-001.pdf

AS-98420-001-CH-001.pdf

AS-98420-001-SP-001.pdf

AS-64318-002-FR-001.pdf

AS-98420-001-FR-001.pdf

PS-64321-001-001.pdf

## Product Environment Compliance

### Compliance

| | |
|---|---|
| GADSL/IMDS | Compliant |
| China RoHS | Not Relevant |
| EU ELV | Compliant per 2000/53/EC |
| Low-Halogen Status | Not Relevant |

| | |
|---|---|
| REACH SVHC | Contains Dodecamethylcyclohexasiloxane; chromium trioxide per D(2025)7771-DC (04 Feb 2026) |
| EU RoHS | Compliant per EU 2015/863 |

Compliance Statements
- EU RoHS
- REACH SVHC
- Low-Halogen

Industry Documents
- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration
- IEC-62474
- chemSHERPA (xml)

Substances of Interest
- PFAS

EU RoHS Certificate of Compliance

Additional Product Compliance Information

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## Part Details

### General

| | |
|---|---|
| Status | Active |
| Category | Connector Housings |
| Series | 64318 |
| Description | .635mm, 1.50mm, 2.80mm, Power CMC Connector, 28 Circuits, Left Wire Output, Brown Coding, Mat Sealed |
| Application | Automotive, Wire-to-Board |
| Comments | Current tested on a fully loaded connector, current for temperature increase of 40°C; Current max = 21.0A for 2.80mm Terminal (5.00mm$^2$ wire), 12.0A for 1.50mm Terminal (2.00mm$^2$ wire), 2.5A for 0.635mm Terminal (0.75mm$^2$ wire) |
| Component Type | Receptacle |

| | |
|---|---|
| More Detailed Tech Information | Sealed, high-density, power, modular connecting system for Power Train and Body Electronics applications in cars, trucks, busses |
| Product Name | CMC |
| UPC | 883906135126 |

**Physical**

| | |
|---|---|
| Circuits Detail | 5x 2.8mm, 5 x 1.5mm, 18 x 0.635mm terminals |
| Circuits (maximum) | 28 |
| Color - Resin | Brown |
| Gender | Receptacle |
| Glow-Wire Capable | No |
| Keying to Mating Part | Yes |
| Lock to Mating Part | Yes |
| Material - Resin | Polyester |
| Net Weight | 35.290/g |
| Number of Rows | 3 |
| Packaging Type | Carton |
| Panel Mount | No |
| Pitch - Mating Interface | 2.54mm, 3.50mm, 6.75mm |
| Polarized to Mating Part | Yes |
| Sealed | Sealed |
| Stackable | No |
| Temperature Range - Operating | -40° to +125°C |
| Terminal Size | 0.635, 1.5, 2.8 |

**Solder Process Data**

| | |
|---|---|
| Lead-Free Process Capability | N/A |

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## Mates With / Use With

**Mates with Part(s)**

| Description | Part Number |
|---|---|

| | |
|---|---|
| CMC Right-Angle Headers | 47745 |

**Use with Part(s)**

| Description | Part Number |
|---|---|
| Wire Cap for Mat Sealed CMC Receptacle, 28 Circuits and 48 Circuits | 643201301 |
| CMC 0.635mm Blind Cavity Plug | 643251010 |
| CMC 1.50mm Blind Cavity Plug | 643251023 |
| CMC 2.80mm Blind Cavity Plug | 643251091 |
| 0.635mm CMC CP Female Terminals | 64322 |
| 1.50mm CMC CP Female Terminals | 64323 |
| 2.80mm CMC CP Female Terminals | 64324 |

## Application Tooling

## Global

| Description | Part Number |
|---|---|
| Continuity Test Pen Assembly | 638121100 |
| Unlocking Tool for CMC and CMX Receptacle Connector | 638241200 |