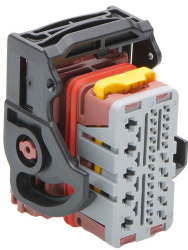




**Part Number :** [643181018](#)  
**Product Description :** .635mm, 1.50mm, 2.80mm, Power CMC Connector, 28 Circuits, Left Wire Output, Gray Coding, Mat Sealed  
**Series Number :** 64318  
**Status :** Active  
**Product Category :** Connector Housings



## Documents & Resources

### Drawings

[Drawing 643181018\\_sd.pdf](#)

### 3D Models and Design Files


[3D Model 643181018\\_stp.zip](#)

### Specifications

- [Application Specification AS-64318-002-001.pdf](#)
- [Application Specification AS-64318-002-CH-001.pdf](#)
- [Application Specification AS-64318-002-SP-001.pdf](#)
- [Application Specification AS-98420-001-001.pdf](#)
- [Application Specification AS-98420-001-CH-001.pdf](#)
- [Product Specification PS-64321-001-001.pdf](#)

## Product Environment Compliance

### Compliance

GADSL/IMDS	Compliant
China RoHS	
EU ELV	Compliant per 2000/53/EC
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2024)4144-DC (27 June 2024)
EU RoHS	Compliant per EU 2015/863

### [Multiple Part Product Compliance Statements](#)

- Eu RoHS
- REACH SVHC
- Low-Halogen

## Multiple Part Industry Compliance Documents

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

## EU RoHS Certificate of Compliance

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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, Gray Coding, Mat Sealed
Application	Automotive, Power, 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 <sup>2</sup> wire), 12.0A for 1.50mm Terminal (2.00mm <sup>2</sup> wire), 2.5A for 0.635mm Terminal (0.75mm <sup>2</sup> wire)
More Detailed Tech Information	Sealed, high-density, power, modular connecting system for Power Train and Body Electronics applications in cars, trucks, busses
Product Family	CMC and CMX Sealed, Hybrid, Modular Connectors
Product Name	CMC
UPC	883906135119

#### Physical

Circuits Detail	5x 2.8mm, 5 x 1.5mm, 18 x 0.635mm terminals
Circuits (maximum)	28
Color - Resin	Gray
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
Stackable	No
Temperature Range - Operating	-40° to +125°C

### 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	<u>47745</u>

#### Use with Part(s)

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

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### Application Tooling

Global

Description	Part Number
Continuity Test Pen Assembly	<u>638121100</u>
Unlocking Tool for CMC and CMX Receptacle Connector	<u>638241200</u>