

T4141L12051-001 ✓ ACTIVE



## M12 Connector

TE Internal #: T4141L12051-001

4 Position Circular Connector, Wire-to-Panel, Sealable, Wire & Cable, Power, Panel Mount, Reverse Gender, Nickel, Copper Alloy, M12 Connector

[View on TE.com >](#)

Connectors > Circular Connectors > Standard Circular Connectors



Number of Positions: 4

Connector System: **Wire-to-Panel**

Sealable: **Yes**

Connector & Contact Terminates To: **Wire & Cable**

Contact Current Rating (Max): **16 A**

## Features

### Dimensions

Panel Thickness (Recommended)	1.5 – 3.2 mm [.071 – .126 in]
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### Packaging Features

Packaging Quantity	1
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### Industry Standards

UL Flammability Rating	UL 94V-0
Compatible With Approved Standards Products	UL E28476

### Other

Field Serviceable	Yes
EU RoHS Compliance	Compliant with Exemptions
EU ELV Compliance	Compliant with Exemptions

### Usage Conditions

IP Dust Sealing Level	6
IP Water Sealing Level	IP67



Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
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### Body Features

Product Weight	22 g[.776 oz]
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O-Ring Material	Silicone
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Positive Stop Ferrule	Without
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Entry Style	Rear Insertion
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Environmental Protection	IP67
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Environmental Protection Type	Sealed
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Primary Product Color	Black
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Peripheral Seal Material	Silicone
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Fluid Type	None
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Shell Plating Material	Nickel
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Shell Base Material	Copper Alloy
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Circular Connector Insulation Material Type	LCP (Liquid Crystal Polymer)
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Hermetically Sealed	Yes
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### Mechanical Attachment

Panel Mount Feature Type	Flange
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Mating Alignment	Without
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Connector Mounting Type	Panel Mount
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Mating Alignment Type	Keyed
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### Operation/Application

Durability Rating	100 Cycles
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Circuit Application	Power
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Shielded	No
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### Contact Features

Contact Quantity (Size 16)	5
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Contact Current Rating (Max)	16 A
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Reverse Gender	Yes
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Circular Connector Contact Type	Socket
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### Product Type Features

Assembly Requirement	Factory Assembled
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Circular Connector Shell Type	Metal-Shell
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Connector Product Type	Connector Assembly
Assembly Type	Electrical Connector
Connector System	Wire-to-Panel
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable
Circular Connector Type	Receptacle
Shell Type	Metal

### Configuration Features

Factory Installed Backshell	Without
Number of Positions	4
Number of Power Positions	4
Number of Signal Positions	0
Contacts Preloaded	Yes

### Housing Features

Circular Connector Shell Size	18
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## Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) SVHC > Threshold: Pb (1.9% in Component Part) <b>Article Safe Usage Statements:</b> Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed for solder process capability

#### Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent

chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

## Compatible Parts



TE Part # CAT-SI113-M1ZG  
M12 L-code 5pin male straight pigtail, shielded polyurethane gray 14 AWG



TE Part # CAT-SI113-M1ZD  
M12 L-code 5pin male right angle pigtail, shielded polyurethane gray 14 AWG



TE Part # CAT-SI113-M1ZQ  
M12 L-code 5pin male straight to female straight, polyurethane gray 16 AWG



TE Part # CAT-SI113-M1ZM  
M12 L-code 5pin male straight to female right angle, polyurethane gray 14 AWG



TE Part # CAT-SI113-M1ZC  
M12 L-code 5pin male right angle pigtail, polyurethane gray 14 AWG



TE Part # CAT-SI113-M1ZP  
M12 L-code 5pin male straight to female straight, shielded polyurethane gray 14 AWG



TE Part # CAT-SI113-M1ZZN  
M12 L-code 5pin male right angle to female straight, PVC gray 14 AWG



TE Part # CAT-SI113-M1ZK  
M12 L-code 5pin male right angle to female straight, polyurethane gray 16 AWG



TE Part # CAT-SI113-M1ZE  
M12 L-code 5pin male right angle pigtail, polyurethane gray 16 AWG



TE Part # T4140L12051-001  
M12, REAR, MALE, L, 4P+PE, LONGER, SOLDER PCB



TE Part # T4140L12051-002  
M12, REAR, MALE, L, 4P+PE, LONGER, POTTING PCB



TE Part # CAT-SI113-M1ZN  
M12 L-code 5pin male straight to female right angle, polyurethane gray 16 AWG



TE Part # CAT-SI113-M1ZO  
M12 L-code 5pin male straight to female straight, polyurethane gray 14 AWG



TE Part # CAT-SI113-M1ZH  
M12 L-code 5pin male straight pigtail, polyurethane gray 16 AWG



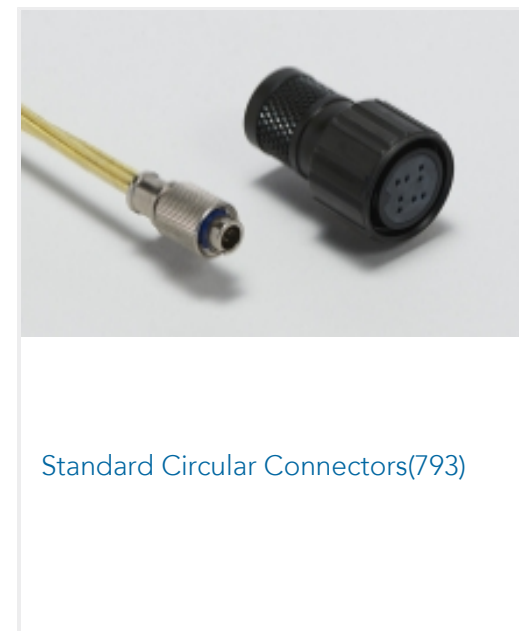
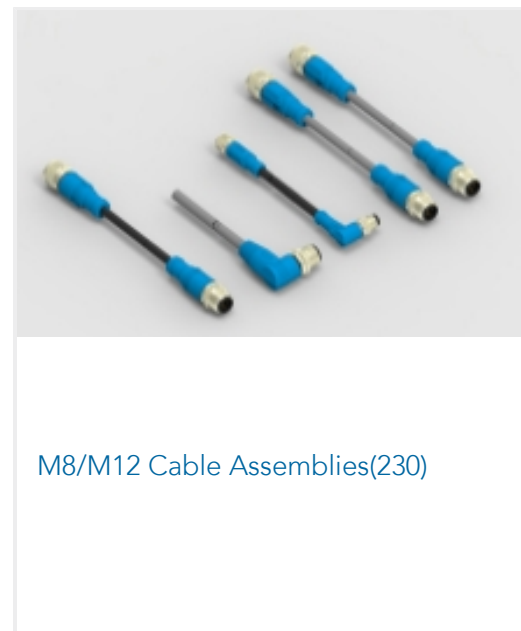
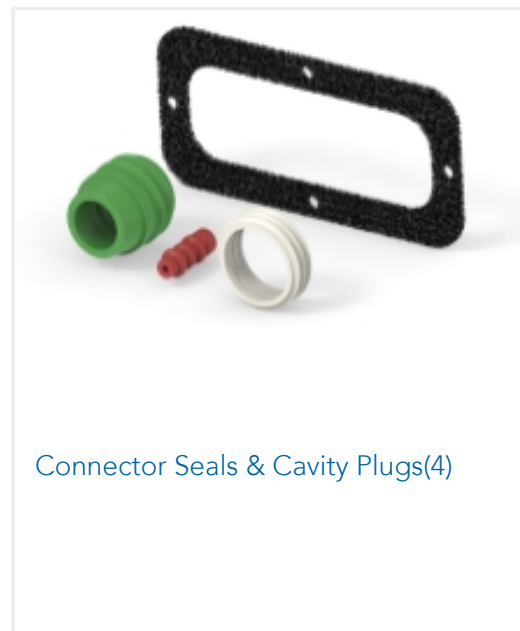
TE Part # CAT-SI113-M1ZZO  
M12 L-code 5pin male straight to female right angle, PVC gray 14 AWG



TE Part # CAT-SI113-M1ZZP  
M12 L-code 5pin male straight to female straight, PVC gray 14 AWG



## Also in the Series | M12 Connector



## Customers Also Bought



## Documents

### Product Drawings

[M12,REAR MT,F,L,4P+PE,LONGER,SOLDER PCB](#)

English

### CAD Files

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_T4141L12051-001\\_B.3d\\_igs.zip](#)



English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_T4141L12051-001\\_B.3d\\_stp.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_T4141L12051-001\\_B.2d\\_dxf.zip](#)

English

**3D PDF**

3D

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

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**Product Specifications**

**Application Specification**

English

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**Agency Approvals**

**UL**

English