# 1977890-1 ✔ ACTIVE

AMP | AMP Circular Plastic Connectors, Circular Plastic Connectors Series 6

TE Internal #: 1977890-1

16 Position Circular Power Connector, Housing, 600 VDC, Wire-to-Wire, Sealable, Wire & Cable, Receptacle, Pin, AMP Circular Plastic Connectors

View on TE.com >

Connectors > Power Connectors > Circular Power > Circular Power Connectors







Connector Product Type: **Housing**

Operating Voltage: **600 VDC**

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

Number of Positions: **16**

Sealable: **Yes**

## Features

### Product Type Features

| | |
|---|---|
| Connector Seal & Plug Type | Peripheral, Wire Entry Seal |
| Connector Product Type | Housing |
| Connector System | Wire-to-Wire |
| Sealable | Yes |
| Connector & Contact Terminates To | Wire & Cable |
| Connector & Housing Type | Receptacle |
| Circular Connector Shell Type | All Plastic |

### Configuration Features

| | |
|---|---|
| Reverse Numbering | Without |
| Number of Positions | 16 |
| Number of Power Positions | 4 |
| Number of Signal Positions | 12 |

### Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 600 VAC |

## Contact Features

| | |
|---|---|
| Reverse Gender | No |
| Contact Type | Pin |
| Contact Protection | With |

## Mechanical Attachment

| | |
|---|---|
| Mating Retention Type | Threaded Coupling |
| Thread Size | 1-3/8 - 18 UNEF-2A |
| Polarization Code | A |
| Panel Mount Feature Type | Flange with Mounting Holes |
| Mating Alignment Type | Keyed |
| Mating Alignment | With |
| Connector Mounting Type | Panel Mount |
| Mating Retention | With |
| Panel Mount Feature | With |

## Housing Features

| | |
|---|---|
| Body Orientation | Straight |
| Housing Color | Black |
| Housing Material | Nylon 6/6 (UV Resistant) |
| Circular Connector Shell Size | 23 |

## Usage Conditions

| | |
|---|---|
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °F] |
| Fluid Resistance | Immersion |

## Operation/Application

| | |
|---|---|
| Circuit Application | Power & Signal |
| Shielded | No |

## Industry Standards

| | |
|---|---|
| UL Flammability Rating | UL 94V-0 |

## Packaging Features

| | |
|---|---|
| Packaging Quantity | 20 |
| Packaging Method | Package |

# Product Compliance

For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant |
| EU ELV Directive 2000/53/EC | Compliant |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250)<br>Candidate List Declared Against: JAN 2025 (247)<br>SVHC > Threshold:<br>Dodecamethylcyclohexasiloxane (D6) (.5% in M-14585-1)<br>Decamethylcyclopentasiloxane (D5) (.5% in M-14585-1)<br>Octamethylcyclotetrasiloxane (D4) (.5% in M-14585-1)<br>**Article Safe Usage Statements:**<br>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 < 900 ppm per homogenous material. Also BFR/CFR/PVC Free |
| Solder Process Capability | Not applicable for solder process capability |

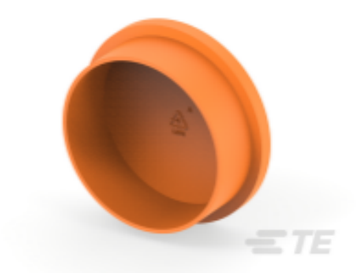
Product Compliance Disclaimer

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



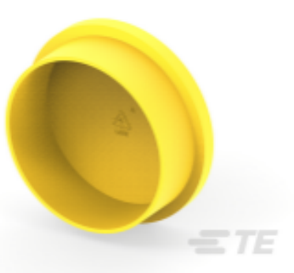
TE Part # 6-2407269-2
CAP, CPC, SIZE 23 RECP, BLACK



TE Part # 6-2407269-1
CAP, CPC, SIZE 23 RECP, ORANGE



TE Part # 1977892-1
SLD CPC PLUG ASSY,23-16,STD SX, UV RESIS



TE Part # 6-2407269-4
CAP, CPC, SIZE 23 RECP, YELLOW



TE Part # 6-2407269-3
CAP, CPC, SIZE 23 RECP, RED

## Also in the Series | AMP Circular Plastic Connectors



Circular Power Connectors(10)



Connector Backshells(1)



Connector Caps & Covers(16)



Connector Seals & Cavity Plugs(35)

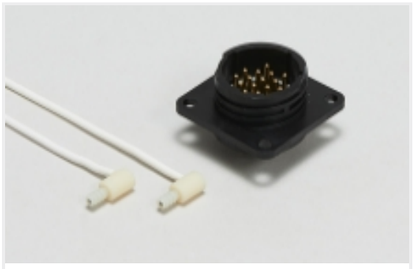


Connector Strain Relief(60)



Insertion & Extraction Tools(1)

## Also in the Series | Circular Plastic Connectors Series 6



Circular Power Connectors(10)

## Customers Also Bought



TE Part #114017-ZZ
SEALING PLUG, SIZE 12/16, WHT



TE Part #CAT-D48-ST273
DEUTSCH Solid Contacts



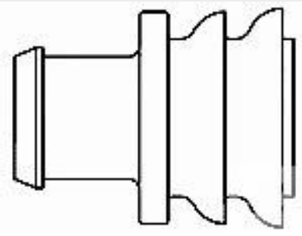
TE Part #DT04-2P
REC, 2P, GRY, N



TE Part #CAT-D487-W416
Wedgelocks: DEUTSCH DT



TE Part #DT06-2S
PLG, 2P, GRY, N



TE Part #281934-2
SINGLE WIRE SEAL



TE Part #CAT-AM71-CH8172
AMP SUPERSEAL 1.5MM, CONNECTOR HOUSING

## Documents

### Product Drawings

SLD CPC RCPT ASSY,23-16,STD SX, UV RESIS

English

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1977890-1_C.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1977890-1_C.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1977890-1_C.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

### Product Specifications

Product Specification

English