1977887-1 ✔ ACTIVE

AMP | Circular Plastic Connectors Series 1, AMP Circular Plastic Connectors

TE Internal #: 1977887-1

37 Position Circular Power Connector, Housing, 600 VDC, Wire-to-Wire, Sealable, Wire & Cable, Plug, Socket, Signal, 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: **37**

Sealable: **Yes**

Features

Product Type Features

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

Configuration Features

Reverse Numbering	Without
Number of Positions	37
Number of Power Positions	0
Number of Signal Positions	37

Electrical Characteristics

Operating Voltage	600 VAC

Contact Features

Reverse Gender	No
Contact Type	Socket
Contact Protection	With

Mechanical Attachment

Mating Alignment Type	Keyed
Mating Retention Type	Threaded Coupling
Thread Size	1 3/8-18 UNEF-2A
Mating Alignment	With
Polarization Code	A
Mating Retention	With
Panel Mount Feature	Without

Housing Features

Body Orientation	Straight
Housing Color	Black
Housing Material	Nylon (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	Signal
Shielded	No

Industry Standards

UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	1
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) Candidate List Declared Against: JUNE 2025 (250) SVHC > Threshold: Octamethylcyclotetrasiloxane (D4) (.5% in 27520273108) Decamethylcyclopentasiloxane (D5) (.5% in M-9955-1) Dodecamethylcyclohexasiloxane (D6) (.5% in 27520273108) **Article Safe Usage Statements:** 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 # 1-66597-1
III+ PIN,18-14,TIN ,STRIP



TE Part # 1-66601-0
III+ SKT,18-14,30AU/FL,LP



TE Part # 1-66101-9
III+ SKT,18-16,TIN ,LP



TE Part # 193846-1
SKT ASSY.



TE Part # 202726-1
CONTACT SOCKET ASSY.



TE Part # 201334-1
CONTACT PIN ASSY.



TE Part # 3-66104-0
III+ SKT,24-20,TIN ,STRIP



TE Part # 1-66105-9
III+ SKT,24-20,TIN,LP



TE Part # 1-66098-8
III+ PIN,18-16,TIN STRIP



TE Part # 1-66598-2
III+ SKT,18-14,TIN ,STRIP



TE Part # 1-66564-2
III+ PIN,24-20,TIN,STRIP



TE Part # 164160-3
M-SRS PIN ASSY 3+



TE Part # 66109-3
III+ SKT,26-24,15AU/FL,LP



TE Part # 66332-8
III+ PIN,24-20,30AU/FL,STRIP



TE Part # 66566-7
III+ PIN,24-20,TIN,LP



TE Part # 66105-3
III+ SKT,24-20,15AU/FL,LP



TE Part # 66597-2
III+ PIN,18-14,30AU/FL,STRIP



TE Part # 66394-8
III+ SKT,30-26,30AU/FL,STRIP

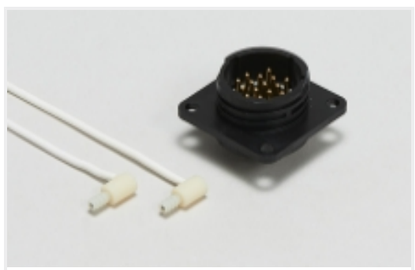


TE Part # 66425-7
III+ PIN,30-26,15AU/FL,STRIP



TE Part # 66107-3
III+ PIN,26-24,15AU/FL,LP

Also in the Series | AMP Circular Plastic Connectors



Circular Power Connectors(211)



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 1



Circular Power Connectors(211)



Connector Contacts(260)



Power Contacts(260)

Customers Also Bought



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

TE Part #281934-2
SINGLE WIRE SEAL

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

Documents

Product Drawings

PLUG.ASSY,23-37STD SEX THRD AD, UV RESIS

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1977887-1_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1977887-1_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1977887-1_B.3d_stp.zip

English

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Product Specifications

Product Specification

English