



Connectors > Contacts > Connector Contacts



Contact Type: **Socket**  
Contact Mating Area Plating Material: **Gold (Au)**  
Contact Retention Within Housing: **Without**  
Contact Size: **Size 12**  
Contact Base Material: **Copper Alloy**

Features

Contact Features

PCB Contact Termination Area Plating Material Thickness	5.08 – 7.62 µm[200 – 300 µin]
Contact Underplating Material	Nickel
Contact Orientation	Straight
Mating Pin Diameter	2.28 mm[.09 in]
Contact Underplating Material Thickness	1 µm[40 µin]
PCB Contact Termination Area Plating Material	Silver
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Wire Contact Termination Area Plating Material Finish	Bright
Contact Type	Socket
Contact Mating Area Plating Material	Gold (Au)
Contact Retention Within Housing	Without
Contact Size	Size 12
Contact Base Material	Copper Alloy
Contact Current Rating (Max)	35 A

Termination Features



Termination Method to PCB	Through Hole - Solder
Product Terminates To	Printed Circuit Board

Mechanical Attachment

Wire Insulation Support	Without
-------------------------	---------

Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
-----------------------------	----------------------------

Operation/Application

Circuit Application	Power
---------------------	-------

Packaging Features

Packaging Method	Bag
Packaging Quantity	500

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (3.7% in 74019106) <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 applicable for solder process capability

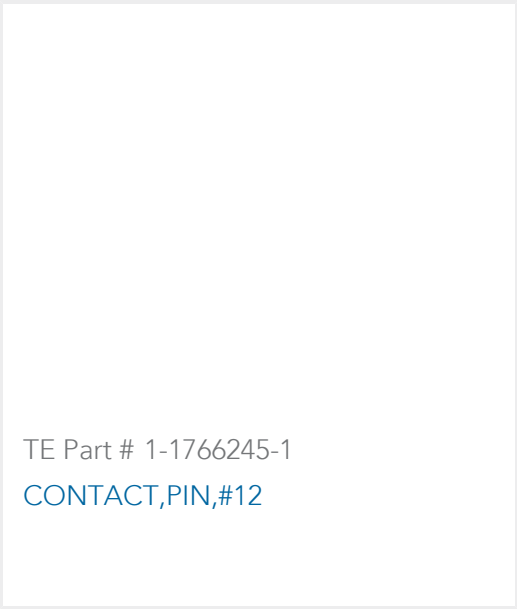
Product Compliance Disclaimer

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

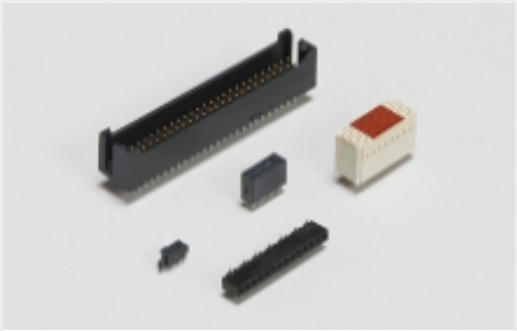


TE Part # 1-1766245-1  
CONTACT,PIN,#12




TE Part # 1766245-1  
CONTACT,PIN,#12

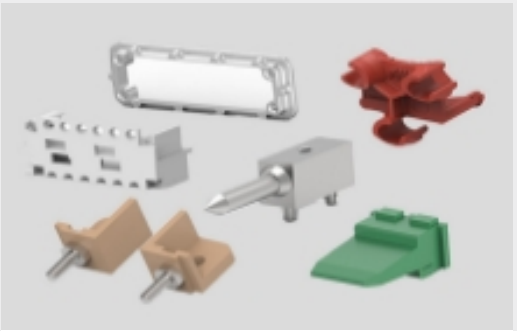
Also in the Series | ELCON Drawer




Board-to-Board Headers & Receptacles(25)




Connector Contacts(34)




Connector Hardware(1)




Power Contacts(34)



Rectangular Connector Housings(1)



Rectangular Power Connectors(24)




Standard Rectangular Connectors(2)

Customers Also Bought



TE Part #1650162-2  
701-65-02109=CONTACT,PIN,#20



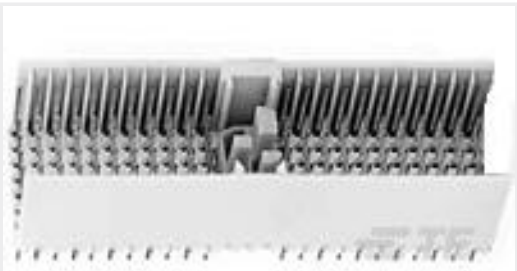
TE Part #CAT-472-Z12553  
HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm



TE Part #178323-2  
DYNAMIC D3100D HDR V 6P ASSY AU038



TE Part #DRC10-40P-A004  
HDR, 40P, BLK, ST, PIN, SN/NI/CU



TE Part #5100143-1  
2MM H.M. TYPE "A" PIN ASSY.



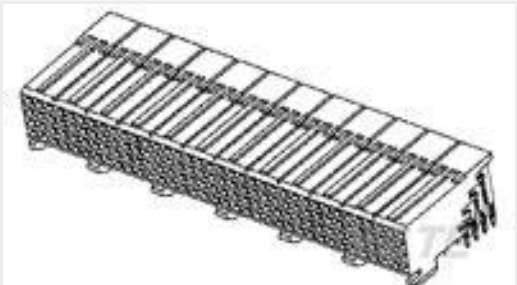
TE Part #1650155-1  
701-14-02109=CONTACT,PIN,#20



TE Part #1827691-3  
DYNATAP 3200 TAP ASSY 24P  
BOTTOM MOUNT



TE Part #350713-1  
12P UMNL PIN HDR ASSY 94VO



TE Part #5536511-4  
2MM FB,ASY,192,SIG,REC,EN,3.55

Documents

Product Drawings

CONTACT,SKT,SIZE #12

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_6648374-1\_A.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_6648374-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_6648374-1\_A.3d\_stp.zip

English

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

Datasheets & Catalog Pages

POWER\_CONNECTORS\_CATALOG\_SEC02\_CABLE\_MOUNTED

English

AMP & ELCON Power Connector Layout Forms Datasheet 6-1773444-7

English

Product Specifications

Application Specification

English

6648374-1

Socket Contact, Gold (Au), Size 12 Contact Size, Copper Alloy, Power, -55 – 105 °C  
[-67 – 221 °F], ELCON Drawer

