

1648382-1 ✓ ACTIVE

ELCON | ELCON Drawer

TE Internal #: 1648382-1

Power Contacts, Contact, 250 VAC, Gold, 20 AWG Wire Size, .518 mm<sup>2</sup> Wire Size, 1023.9 CMA Wire Size, Printed Circuit Board, Power, Socket, ELCON Drawer

[View on TE.com >](#)



Connectors > Power Connectors > Power Contacts



Power Contact Type: **Contact**

Operating Voltage: **250 VAC**

Contact Mating Area Plating Material: **Gold**

Wire Size: **.518 mm<sup>2</sup>**

## Features

### Product Type Features

Power Contact Type	Contact
Connector & Contact Terminates To	Printed Circuit Board

### Electrical Characteristics

Operating Voltage	250 VAC
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### Contact Features

Contact Size	Size 20
PCB Contact Termination Area Plating Material Thickness	.25 µm[10 µin]
PCB Contact Termination Area Plating Material	Gold
Contact Mating Area Plating Material	Gold
Contact Current Rating (Max)	5 A
Contact Type	Socket
Contact Retention Within Housing	Without
Mating Pin Diameter	1.02 mm[.04 in]
Contact Base Material	Brass Alloy
Contact Mating Area Plating Material Thickness	.76 µm[29.8 µin]



Contact Mating Area Plating Material Finish	Bright
Wire Contact Termination Area Plating Thickness	.25 µm[10 µin]
Wire Contact Termination Area Plating Material	Gold
Wire Contact Termination Area Plating Material Finish	Bright
Contact Orientation	Straight
Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1 µm[40 µin]

### Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
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### Mechanical Attachment

Wire Insulation Support	Without
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### Dimensions

Wire Size	1023.9 CMA
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### Usage Conditions

Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]
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### Operation/Application

Circuit Application	Power
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### Packaging Features

Packaging Quantity	1000
Packaging Method	Bag

### Other

Power Connectors Comment	PCB Termination Type - Standard
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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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) SVHC > Threshold:



Pb (3.7% in Component Part)

**Article Safe Usage Statements:**  
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

Wave solder capable to 265°C

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 # 1650283-1  
707-06-02109=CONTACT,PIN,#20

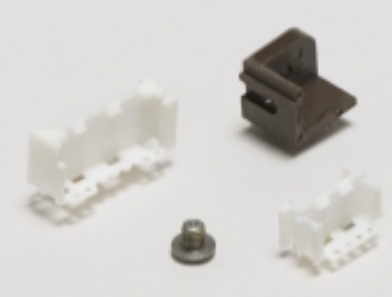


TE Part # 1650230-1  
707-80-02109=CONTACT,PIN,#20,P




TE Part # 1650195-2  
707-0100-02109=CONTACT,PIN,#20,PREMATE

### Also in the Series | ELCON Drawer



PCB Connector Mounting(1)



Power Contacts(35)



Rectangular Connector Hardware(1)



Rectangular Power Connectors(32)

### Customers Also Bought



## Documents

### Product Drawings

[708-68-01109=CONTACT, SKT, #20](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_1648382-1\\_C.2d\\_dxf.zip](#)

English

### 3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1648382-1\\_C.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1648382-1\\_C.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

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### Product Specifications

#### Application Specification

English

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### Product Environmental Compliance

#### MD\_1648382-1\_082720121023

English

#### MD\_1648382-1\_082720121023

English