

6643431-1 ✓ ACTIVE

ICCON

TE Internal #: 6643431-1

Rectangular Power Connectors, Connector Assembly, Plug, Wire-to-Board / Board-to-Board, 1 Position, 2.54 mm [.1 in] Centerline, ICCON

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Connector Assembly**

Connector & Housing Type: **Plug**

Connector System: **Board-to-Board, Wire-to-Board**

Number of Positions: **1**

Centerline (Pitch): **2.54 mm [.1 in]**

Features

Product Type Features

Rectangular Power Connector Type	Connector Assembly
Connector & Housing Type	Plug
Connector System	Board-to-Board, Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Positions	1
PCB Mount Orientation	Right Angle
Number of Power Positions	0
Number of Signal Positions	0
Number of Rows	1
Board-to-Board Configuration	Co-Planar

Electrical Characteristics

Operating Voltage	0 VDC
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Contact Features

Mating Post Length	14.48 mm[.57 in]
Contact Fabrication	Solid
PCB Contact Termination Area Plating Material Thickness	5.08 μ m[200 μ in]



Contact Mating Area Plating Material	Silver
Contact Base Material	Brass Alloy
Contact Current Rating (Max)	35 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Silver
Contact Mating Area Plating Material Thickness	5.08 μm [200 μin]

Termination Features

Termination Post & Tail Length	3.81 mm[.149 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Mating Retention	Without
Mating Alignment	Without
PCB Mount Retention	Without
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	2.54 mm[.1 in]
Housing Color	Black
Housing Material	Thermoplastic

Dimensions

Connector Height	9.65 mm[.38 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]
Product Width	10.16 mm[.4 in]
Product Length	27.18 mm[1.07 in]

Usage Conditions

Operating Temperature Range	-40 – 105 $^{\circ}\text{C}$ [-40 – 221 $^{\circ}\text{F}$]
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Operation/Application

Circuit Application	Power
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Industry Standards

UL Rating	Recognized
Agency/Standard	UL
Approved Standards	UL 1977



UL Flammability Rating

UL 94V-0

Glow Wire Rating

Standard Part - Not Glow Wire

Packaging Features

Packaging Quantity

64

Packaging Method

Box

Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.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

Not Low Halogen - contains Br or Cl > 900 ppm.

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 # 6643269-1
ICCON,SKT,ASSY

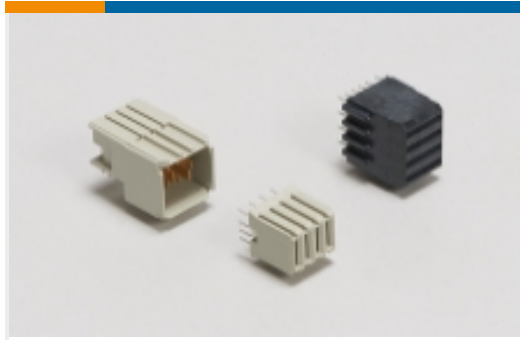


TE Part # 6643272-1
ICCON,SKT,ASSY



TE Part # 6643264-1
ICCON,SKT,ASSY

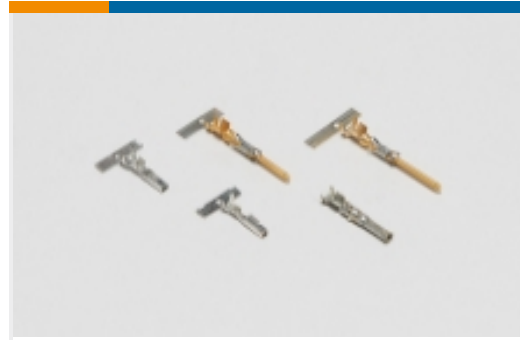
Also in the Series | ICCON



Backplane Power Connectors(2)



Busbar Connectors(3)



Power Contacts(4)



Power Terminals(3)



Rectangular Power Connectors(15)

Customers Also Bought



TE Part #6643220-1
SLIMLINE,ICCON,SKT,ASSY



TE Part #6643269-1
ICCON,SKT,ASSY



TE Part #6643274-1
ICCON,PIN,ASSY



TE Part #6643433-1
ICCON,PIN,ASSY



TE Part #6643222-1
SLIMLINE,ICCON,PIN,ASSY



TE Part #6643264-1
ICCON,SKT,ASSY



TE Part #6643232-1
ICCON,SKT,ASSY



TE Part #1-1986712-2
SCREWLESS, SW,12P,5.08 PCB



Documents

Product Drawings

[ICCON,PIN,ASSY](#)

English

CAD Files

Customer View Model

[ENG_CVM_6643431-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_6643431-1_A.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_6643431-1_A.2d_dxf.zip](#)

English

3D PDF

English

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

Datasheets & Catalog Pages

[POWER_CONNECTORS_CATALOG_SEC01_BOARD_TO_BOARD](#)

English

[2_PIECE_POWER_CONNECTORS_qrg_4-1773458-1](#)

English

Product Specifications

[Application Specification](#)

English