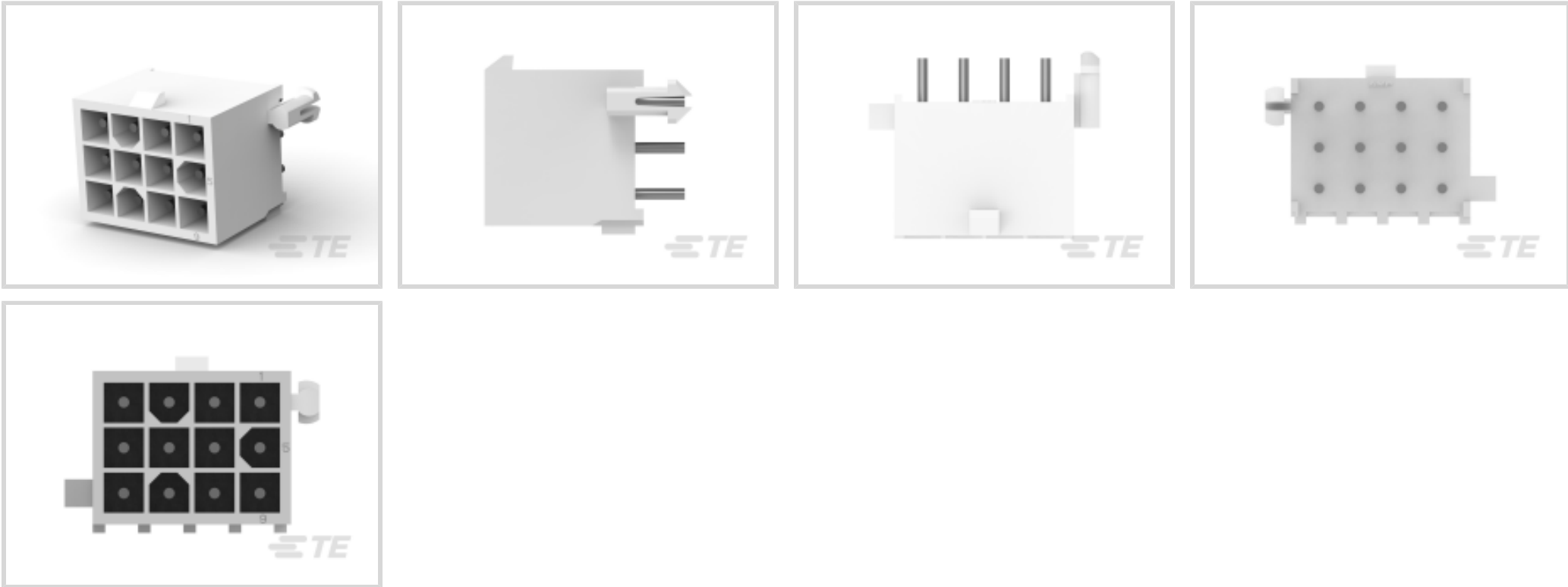




Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Receptacle**

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

Number of Positions: **12**

Centerline (Pitch): **4.14 mm [.162 in]**

Features

Product Type Features

Header Type	Fully Shrouded
Rectangular Power Connector Type	Header
Connector & Housing Type	Receptacle
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Positions	12
PCB Mount Orientation	Vertical
Number of Power Positions	12
Number of Signal Positions	0
Number of Rows	3

Electrical Characteristics

Operating Voltage	600 VDC
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Contact Features

PCB Contact Termination Area Plating Material Thickness	3.81 μm[150 μin]
Contact Layout	Matrix
Contact Mating Area Plating Material	Tin
Contact Base Material	Brass
Contact Current Rating (Max)	9.5 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	3.81 – 8.89 μm[150 – 350 μin]

Termination Features

Termination Post & Tail Length	4.45 mm[.175 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Strain Relief	Without
Mating Alignment Type	Polarization
Mating Retention	With
Mating Alignment	With
PCB Mount Alignment	Without
Panel Mount Feature	Without
PCB Mount Retention	With
PCB Mount Retention Type	Boardlock
Mating Retention Type	Latch
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	4.14 mm[.162 in]
Housing Color	White
Housing Material	Nylon

Dimensions

Connector Height	13.49 mm[.531 in]
PCB Thickness (Recommended)	.06 mm[1.57 in]
Product Width	16.03 mm[.631 in]



Product Length	18.11 mm[.712 in]
Row-to-Row Spacing	4.14 mm[.163 in]

Usage Conditions

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

Circuit Application	Power
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Industry Standards

UL Flammability Rating	UL 94V-0
Glow Wire Rating	Standard Part - Not Glow Wire

Packaging Features

Packaging Quantity	200
Packaging Method	Bag

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: JAN 2023 (233) Candidate List Declared Against: JAN 2023 (233) Does not contain REACH SVHC
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 # 172170-1
12 CIR UNIV M-N-L PLUG

Also in the Series

Mini-Universal MATE-N-LOK

Connector Contacts(9)

Insertion & Extraction Tools(1)

PCB Headers & Receptacles(1)

Power Contacts(84)

Rectangular Backshells & Clamps(2)

Rectangular Boots & Strain Relief(2)

Rectangular Connector Keying Plugs(2)

Rectangular Connector Locking(2)

Rectangular Connector Seals(17)

Rectangular Power Connectors(243)

Customers Also Bought



TE Part #1-640456-1
11P MTA100 HDR ASSY F/L SQ STR



TE Part #1-6609016-7
10ED1C=F7433 S0



TE Part #1-380991-0
10P CMNL HDR ASSY NATL



TE Part #1-380999-0
06P CMNL HDR ASSY NATL



TE Part #5-146280-6
06 MODII HDR SRST B/A .100CL



TE Part #1-1734775-1
Std USB Type A, Flag, T/H, 1.8A



TE Part #1-770170-0
03P MINI-UMNL ASSY VO SNNI*



TE Part #643423-1
06P UMNL HDR ASSY POL



TE Part #3-828102-1
HD-20SCHRAUB-SICHRG

Documents

Product Drawings
12P MINI-UMNL ASSY VO SNNI*

English

CAD Files
3D PDF
3D
Customer View Model
ENG_CVM_CVM_1-770186-0_N.2d_dxf.zip
English
Customer View Model
ENG_CVM_CVM_1-770186-0_N.3d_igs.zip
English
Customer View Model
ENG_CVM_CVM_1-770186-0_N.3d_stp.zip
English

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

Datasheets & Catalog Pages



SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG

English

Product Specifications

Application Specification

English

Product Environmental Compliance

TE Material Declaration

English

Instruction Sheets

Instruction Sheet (U.S.)

English

Agency Approvals

UL

English