



Connectors > Rectangular Connectors > Standard Rectangular Connectors



Connector Product Type: **Housing**
Mating Alignment: **With**
Mating Alignment Type: **Polarization**
Connector & Housing Type: **Plug**
Mating Retention Type: **Positive Lock**

Features

Product Type Features

Connector Product Type	Housing
Connector & Housing Type	Plug
Connector System	Wire-to-Board, Wire-to-Panel, Wire-to-Wire
Sealable	No
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Number of Positions	20
Number of Rows	5
Number of Power Positions	0
Number of Signal Positions	20

Electrical Characteristics

Operating Voltage	250 VAC
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Body Features

Primary Product Color	Black
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Contact Features	
Contact Layout	Matrix
Contact Retention Within Housing	With
Contact Type	Socket
Contact Current Rating (Max)	9 A
Termination Features	
Termination Method to Wire & Cable	Crimp
Mechanical Attachment	
Panel Mount Feature	Without
Mating Alignment	With
Mating Alignment Type	Polarization
Mating Retention Type	Positive Lock
Mating Retention	With
Connector Mounting Type	Panel Mount
Housing Features	
Centerline (Pitch)	4.2 mm[.165 in]
Housing Material	PA 66
Dimensions	
Panel Thickness (Recommended)	1.73 mm[.068 in]
Compatible Insulation Diameter Range	2.92 mm[.115 in]
Connector Width	29.72 mm[1.17 in]
Connector Height	12.95 mm[.51 in]
Connector Length	21.34 mm[.84 in]
Row-to-Row Spacing	4.19 mm[.165 in]
Wire Size	.12 – .8 mm²
Usage Conditions	
Operating Temperature Range	-55 – 85 °C[-67 – 185 °F]
Operation/Application	
Circuit Application	Power & Signal
Industry Standards	
Compatible With Agency/Standards Products	CSA, UL



UL Rating	Recognized
Compatible With Approved Standards Products	UL E28476
CSA Rating	LR 7189
UL Flammability Rating	UL 94V-0
Glow Wire Rating	Standard Part - Not Glow Wire

Packaging Features

Packaging Quantity	600
Packaging Method	Box

Product Compliance

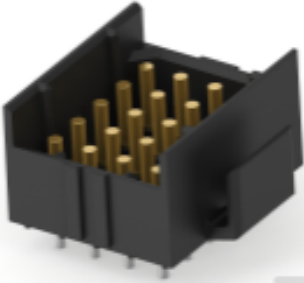
For compliance documentation, visit the product page on TE.com>

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) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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 # 2-640504-4
20P MR HDR ASSY VO LF



TE Part # 640504-1
20P MR HDR ASSY V0



TE Part # 640504-4
20P MR HDR ASSY V0



TE Part # 2-640504-2
20P MR HDR ASSY VO LF



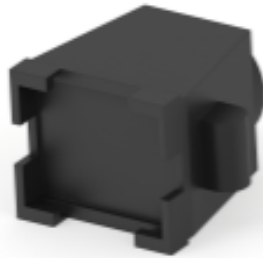
TE Part # 1-640514-0
20P MR II CAP HSG V0



TE Part # 640504-3
20P MR HDR ASSY V0



TE Part # 2063388-1
TOOL, EXTRACTION



TE Part # 1-480634-9
20P STR/REL HNGD BLK

Also in the Series | AMP Miniature Rectangular MR



Connector Contacts(20)



Connector Hardware(2)



Power Contacts(20)



Rectangular Connector Housings(20)



Rectangular Power Connectors(77)



Standard Rectangular Connectors(20)



Wire-to-Board Connector Assemblies & Housings(10)

Customers Also Bought



TE Part #DT6P-BT-BK
BOOT, 6P, REC, ST, BLK



TE Part #3-647609-3
03P MTA100 HDR ASSY F/L LF



TE Part #2-1393640-5
V42254B2102C963=PC612 FEDERLEI



TE Part #1622851-1
CRG0603 1% 150K





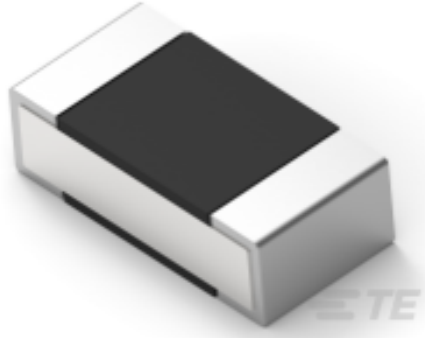
TE Part #1624156-2
23E 22KB 6.35X50FL B7 CAT



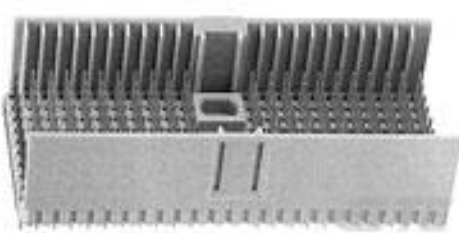
TE Part #1-1734795-1
RJ45,8P8C,SHD,W/ LED,DIP 6u"



TE Part #9-1879215-2
CPF 0402 41K2 0.1% 25PPM 1K RL



TE Part #2176308-4
RP 1E 0.1W 143K 0.1% 25PPM 5K RL



TE Part #5646362-1
2MM HM ASY,T-D,HDR,8R,128P



TE Part #1648162-1
261-0006-01100

Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-640524-0_AF.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-640524-0_AF.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-640524-0_AF.3d_stp.zip

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3D PDF

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English

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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

Instruction Sheets

Instruction Sheet (U.S.)

English

AMP* MINIATURE RECTANGULAR II (MRII) CONNECTORS

English

Agency Approvals

Agency Approval Document

English