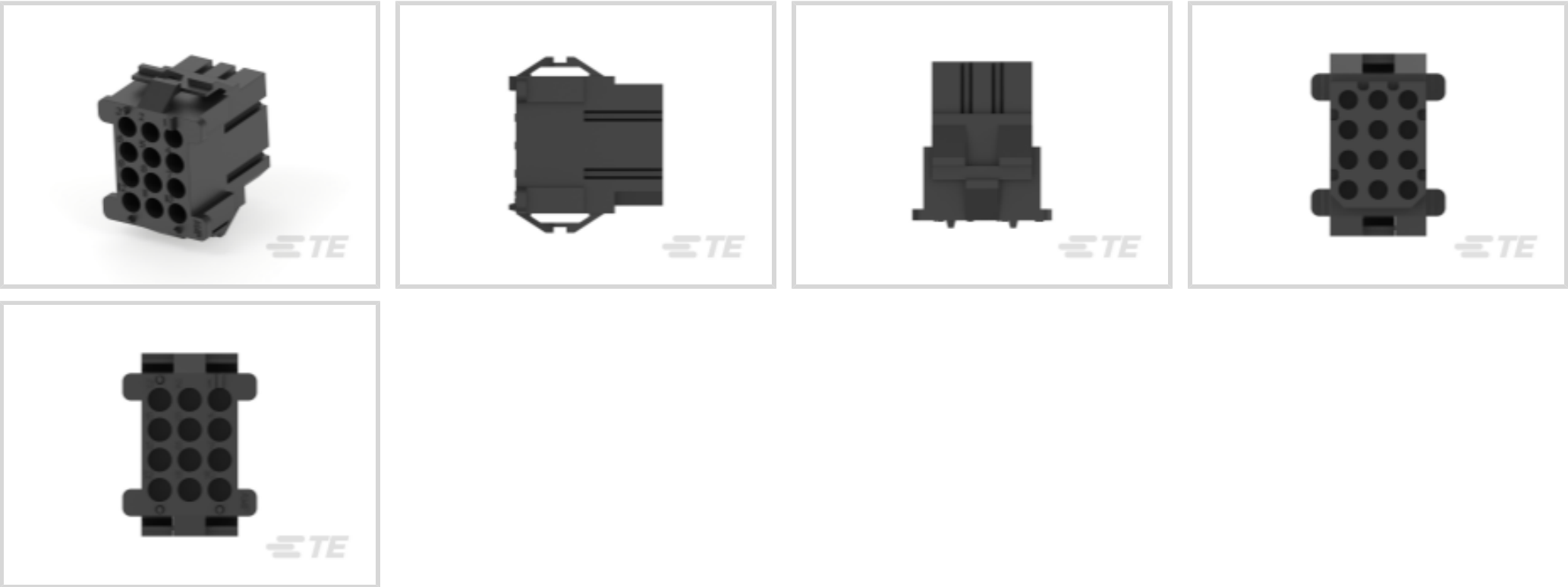




Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Plug**

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

Number of Positions: **12**

Centerline (Pitch): **4.2 mm [ .165 in ]**

Features

Product Type Features

Rectangular Power Connector 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	12
Number of Power Positions	0
Number of Signal Positions	12
Number of Rows	4

Electrical Characteristics

Operating Voltage	250 VAC
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Contact Features

Contact Layout	Matrix
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Contact Current Rating (Max)	9 A
Contact Retention Within Housing	With
Contact Type	Socket

Termination Features

Termination Method to Wire & Cable	Crimp
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Mechanical Attachment

Mating Alignment Type	Polarization
Mating Retention	With
Mating Alignment	With
Panel Mount Feature	Without
Mating Retention Type	Positive Lock
Connector Mounting Type	Panel Mount

Housing Features

Centerline (Pitch)	4.2 mm[.165 in]
Housing Color	Black
Housing Material	PA 66

Dimensions

Panel Thickness (Recommended)	1.73 mm[.068 in]
Connector Height	12.95 mm[.51 in]
Product Width	25.53 mm[1.17 in]
Product Length	21.34 mm[.84 in]
Compatible Insulation Diameter Range	2.92 mm[.115 in]
Wire Size	.12 – .8 mm <sup>2</sup>
Row-to-Row Spacing	4.19 mm[.165 in]

Usage Conditions

Operating Temperature Range	-55 – 85 °C[-67 – 185 °F]
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Operation/Application

Circuit Application	Power & Signal
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Industry Standards

CSA Rating	LR 7189
UL Rating	Recognized
Compatible With Agency/Standards Products	CSA, UL



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

Packaging Features

Packaging Quantity	800
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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 240°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 # 2063388-1 TOOL, EXTRACTION	TE Part # 1-640512-0 12P MR II CAP HSG	TE Part # 640502-3 12P MR HDR ASSY V0	TE Part # 350838-1 MR SOK W/SLDR TL .058 PTPPHBZ
TE Part # 2-640502-4 12P MR HDR ASSY VO LF	TE Part # 2-640502-2 12P MR HDR ASSY VO LF	TE Part # 640502-1 12P MR HDR ASSY V0	TE Part # 1-350374-9 12P STR/REL HNGD
TE Part # 640502-2 12P MR HDR ASSY V0	TE Part # 1-350374-0 12P STR/REL HNGD	TE Part # 1318699-3 MR HDR ASSY 12P COATING	TE Part # 640502-4 12P MR HDR ASSY V0

Also in the Series | AMP Miniature Rectangular

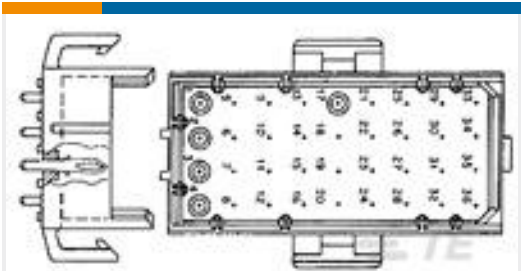
Connector Caps & Covers(3)	Rectangular Power Connectors(9)

Customers Also Bought

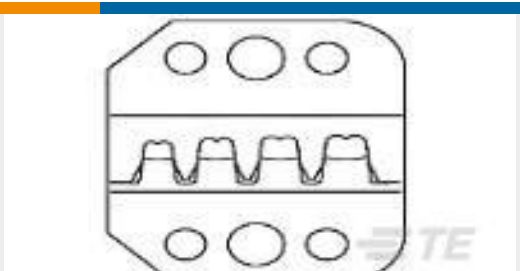
TE Part #1445816-3 RECPT,11-9,FLNG MT,STD KEY	TE Part #1-640523-0 15P MR II PLUG HSG V0	TE Part #770424-1 02P.093 COMM P&S RCPT .248CL	TE Part #640502-3 12P MR HDR ASSY V0



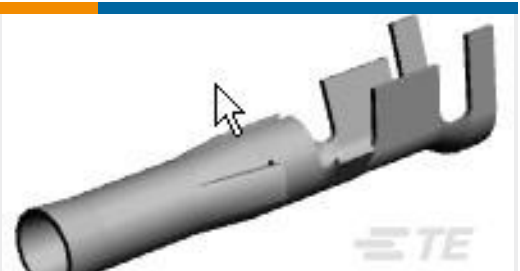
TE Part #535090-9  
096 EURO TYPE C RECEPT ST ASSY



TE Part #640501-1  
09P MR HDR ASSY V0



TE Part #58514-2  
PROCrimp DIE MR26-18



TE Part #770144-6  
.093 CP&S SOC PTPPHBZ LP 20-14

Documents

Product Drawings

12P MR II PLUG HSG

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-640522-0\_AF.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-640522-0\_AF.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-640522-0\_AF.3d\_stp.zip

English

3D PDF

English

Customer View Model

ENG\_CVM\_1-640522-0\_F.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_1-640522-0\_F.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_1-640522-0\_F.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



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**Instruction Sheets**

[Instruction Sheet \(U.S.\)](#)

English

**AMP\* MINIATURE RECTANGULAR II (MRII) CONNECTORS**

English

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**Agency Approvals**

[Agency Approval Document](#)

English