1-640522-0 ✔ ACTIVE

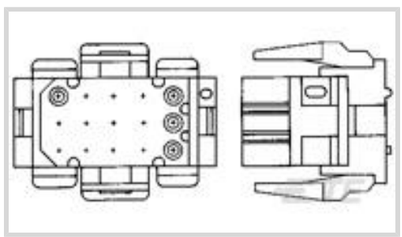
AMP | AMP Miniature Rectangular

TE Internal #: 1-640522-0

AMP Miniature Rectangular, Rectangular Power Connectors, Housing, Plug, Wire-to-Wire / Wire-to-Board / Wire-to-Panel, 12 Position

View on TE.com >

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 VDC

Contact Features

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

Termination Features

Termination Method to Wire & Cable	Crimp

Mechanical Attachment

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

Housing Features

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

Dimensions

Wire Size	.12 – .8 mm^2
Row-to-Row Spacing	4.19 mm[.165 in]
Width	25.53 mm[1.17 in]
Accepts Wire Insulation Diameter Range	2.92 mm[.115 in]
Height	12.95 mm[.51 in]
Length	21.34 mm[.84 in]

Usage Conditions

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

Operation/Application

Circuit Application	Power & Signal

Industry Standards

UL Flammability Rating	UL 94V-0
Glow Wire Rating	Standard Part - Not Glow Wire
Agency/Standard Number	E28476
Agency/Standard	CSA, UL
UL Rating	Recognized
CSA File Number	LR7189

Packaging Features

Packaging Method	Box
Packaging Quantity	800

Product Compliance

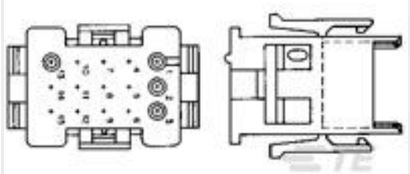
For compliance documentation, visit the product page on TE.com>

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 2021 (211) Candidate List Declared Against: JAN 2021 (211) SVHC > Threshold: 1,6,7,8,9,14,15,16,17,17,18,18-dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (Dechlorane Plus) (20% in Component Part) **Article Safe Usage Statements:** Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. 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 240°C

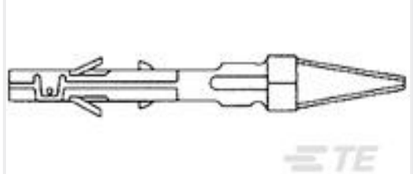
Product Compliance Disclaimer

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

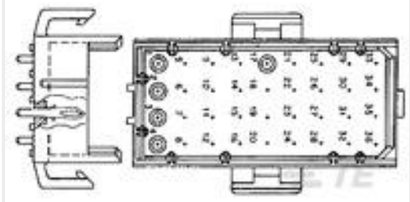
Compatible Parts



TE Part # 1-640512-0
12P MR II CAP HSG V0 RED



TE Part # 350838-1
MR SOK W/SLDR TL .058 PTPPHBZ



TE Part # 2-640502-4
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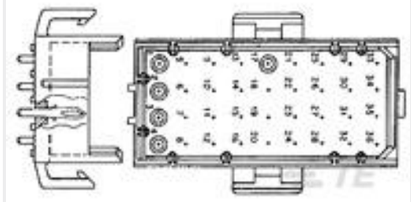

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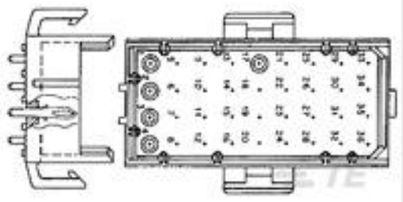

TE Part # 640502-1
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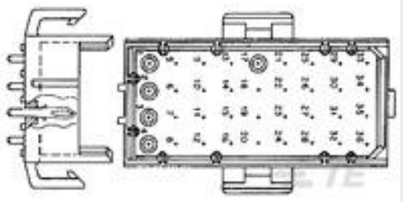

TE Part # 640502-3
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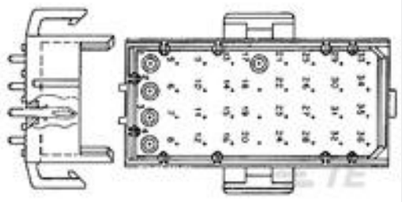
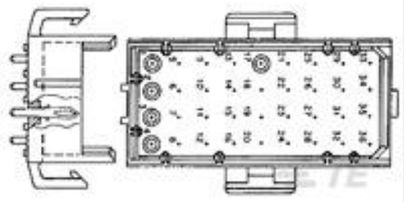
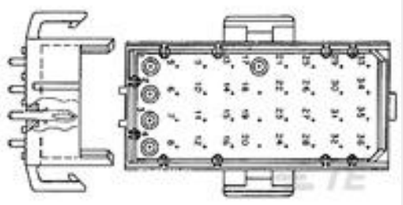


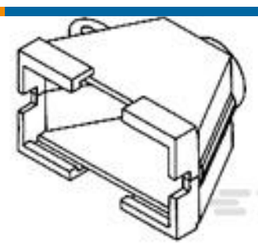
TE Part # 640502-2
12P MR HDR ASSY V0 RED



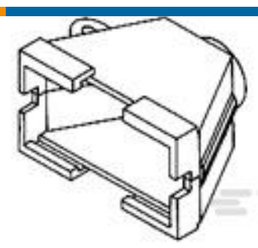
TE Part # 1318699-3
MR HDR ASSY 12P COATING



TE Part # 640502-4
12P MR HDR ASSY V0 RED



TE Part # 1-350374-9
12P STR/REL HNGD



TE Part # 1-350374-0
12P STR/REL HNGD

Also in the Series | AMP Miniature Rectangular



Rectangular Boots & Strain Relief(3)

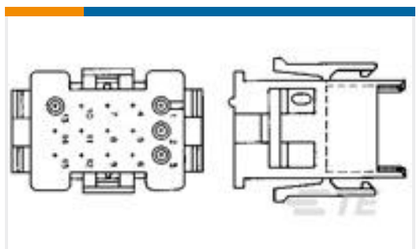


Rectangular Power Connectors(9)

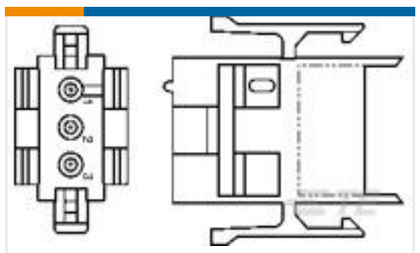
Customers Also Bought



TE Part #1-499252-3
Bus Connector: Strain Relief, ATA



TE Part #1-640512-0
12P MR II CAP HSG V0 RED



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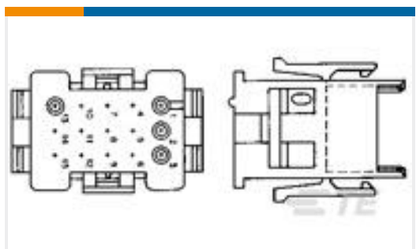

TE Part #1-640510-0
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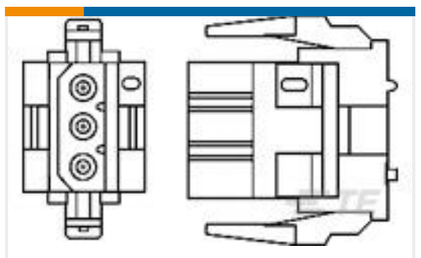

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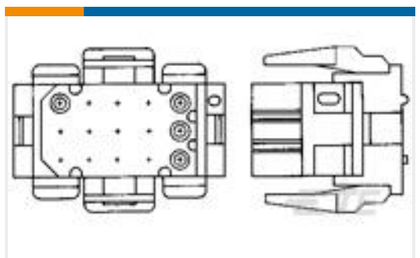

TE Part #1-640519-0
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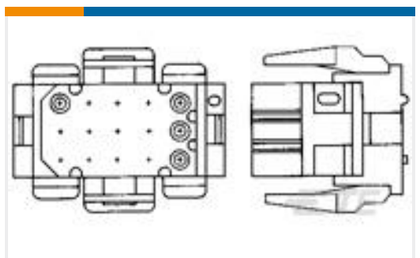
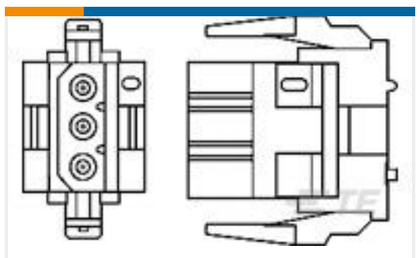


TE Part #1-640520-0
06P MR II PLUG HSG V0 RED



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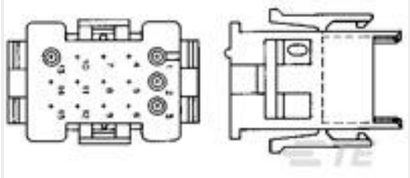

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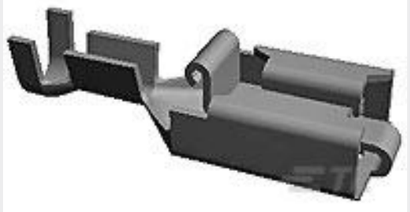
09P MR II CAP HSG V0 RED



TE Part #927855-6
PL RECEPTACLE 1.0-2.5 MM2 PTP CUSN 30

Documents

Product Drawings

12P MR II PLUG HSG V0 RED

English

CAD Files

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

Product Environmental Compliance

12P MR II PLUG HSG V0 RED

English

12P MR II PLUG HSG V0 RED

English

Instruction Sheets

Instruction Sheet (U.S.)

English

AMP* MINIATURE RECTANGULAR II (MRII) CONNECTORS

English

Agency Approvals

Agency Approval Document

English