1-640512-0 ✔ ACTIVE

AMP | AMP Miniature Rectangular

TE Internal #: 1-640512-0

Rectangular Power Connectors, Housing, Receptacle, Wire-to-Wire / Wire-to-Panel, 12 Position, 4.2 mm [.165 in] Centerline, AMP Miniature Rectangular

View on TE.com >

Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors







Rectangular Power Connector Type: **Housing**

Connector & Housing Type: **Receptacle**

Connector System: **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	Receptacle
Connector System	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	Pin

Termination Features

Termination Method to Wire & Cable	Crimp

Mechanical Attachment

Mating Retention	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

Connector Height	7.37 mm[.29 in]
Product Width	25.53 mm[1.005 in]
Product Length	26.92 mm[1.06 in]
Compatible Insulation Diameter Range	2.92 mm[.115 in]
Wire Size	.12 - .8 mm^2
Row-to-Row Spacing	4.19 mm[.165 in]

Usage Conditions

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

Operation/Application

Circuit Application	Power & Signal

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	700
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: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) 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 # 1-640522-0
12P MR II PLUG HSG

Also in the Series | AMP Miniature Rectangular



Connector Caps & Covers(3)

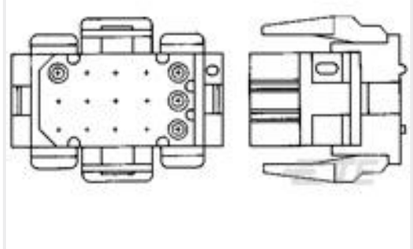


Rectangular Power Connectors(9)

Customers Also Bought



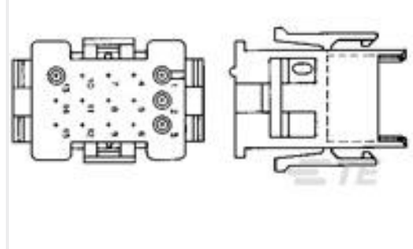
TE Part # 208718-1
CMC PLUG ASSEMBLY,SZ 14-5



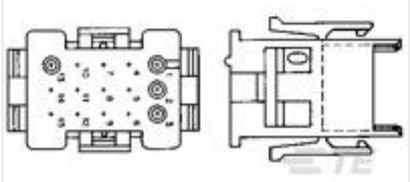
TE Part # 1-640523-0
15P MR II PLUG HSG V0



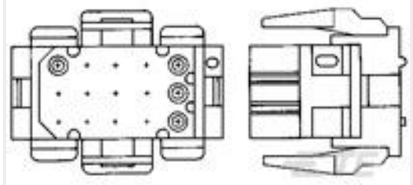
TE Part # 193673-2
SKT ASSY.,CRIMP, 4MM, 10AWG



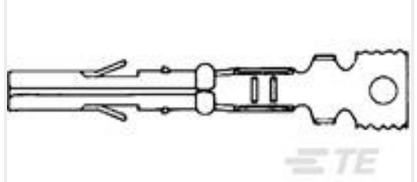
TE Part # 1-640513-0
15P MR II CAP HSG V0



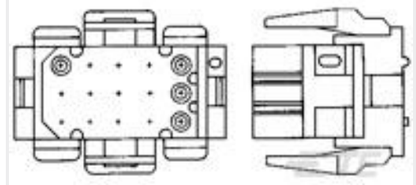
TE Part # 1-640510-0
06P MR II CAP HSG V0



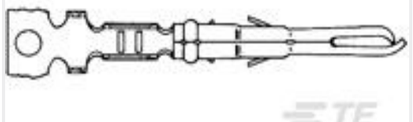
TE Part # 1-640519-0
04P MR II PLUG HSG



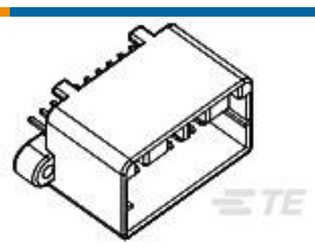
TE Part # 641300-2
MR RECPT AUPHBZ LP 26-18



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



TE Part # 350968-2
MR PIN 26-24 AU/PHBZ



TE Part # 179254-2
040 MLC MK-2 CAP V ASSY 20P

Documents

Product Drawings

12P MR II CAP HSG

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-640512-0_AD.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1-640512-0_AD.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-640512-0_AD.3d_stp.zip

English

Customer View Model

ENG_CVM_1-640512-0_D.2d_dxf.zip

English

Customer View Model

ENG_CVM_1-640512-0_D.3d_igs.zip

English

Customer View Model

ENG_CVM_1-640512-0_D.3d_stp.zip

English

3D PDF

English

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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