1-640509-0 ✔ ACTIVE

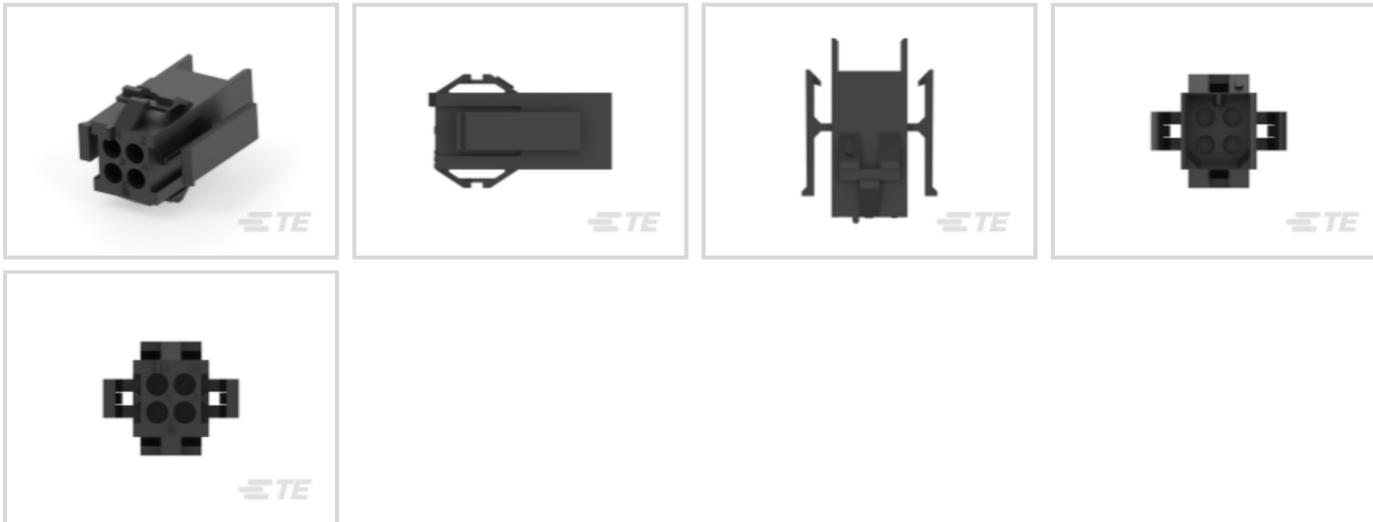**AMP | AMP Miniature Rectangular MR**

TE Internal #: 1-640509-0

4 Position, Cap, Housing, Crimp, Wire-to-Panel / Wire-to-Wire, UL 94V-0, 4.2 mm [.165 in] Centerline, 2 Row, 250 VAC, AMP Miniature Rectangular MR

View on TE.com >

Connectors > Rectangular Connectors > Standard Rectangular Connectors

Connector Product Type: **Housing**

Connector & Housing Type: **Cap**

Mating Alignment: **With**

Mating Alignment Type: **Polarization**

Mating Retention: **With**

Features

Product Type Features

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

Configuration Features

Number of Positions	4
Number of Rows	2
Number of Power Positions	0
Number of Signal Positions	4

Electrical Characteristics

Operating Voltage	250 VAC

Body Features

Primary Product Color	Black

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Contact Features

Contact Layout	Matrix
Contact Retention Within Housing	With
Contact Type	Pin
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	With
Mating Retention Type	Positive Lock
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	12.95 mm[.675 in]
Connector Height	7.37 mm[.29 in]
Connector Length	26.92 mm[1.06 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

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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	1500
Packaging Method	Box

Product Compliance

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

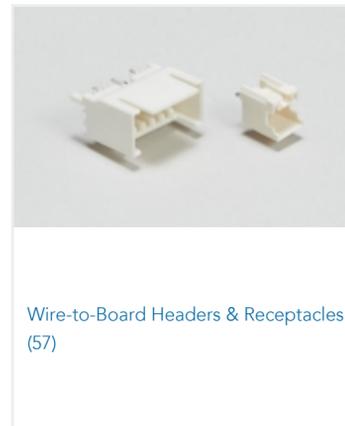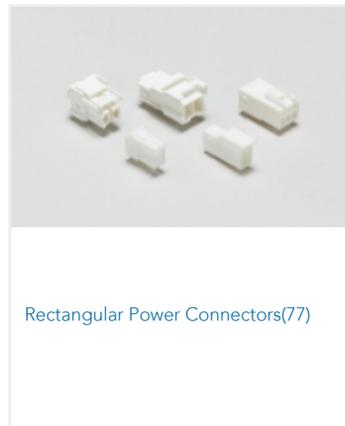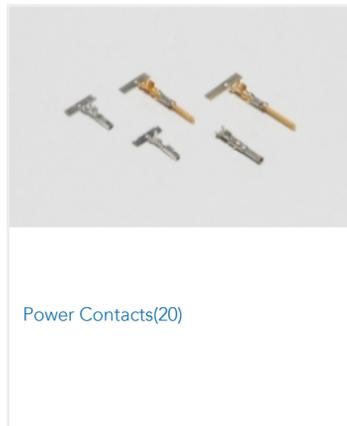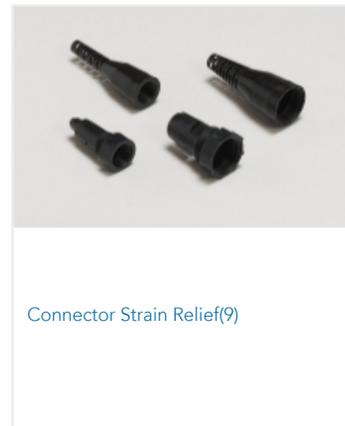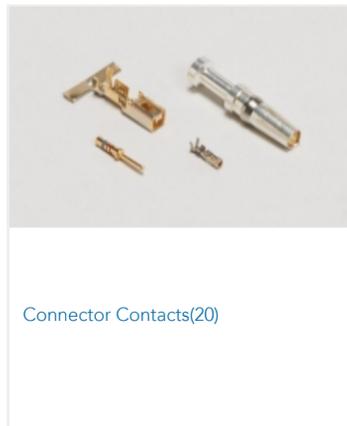|	
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 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
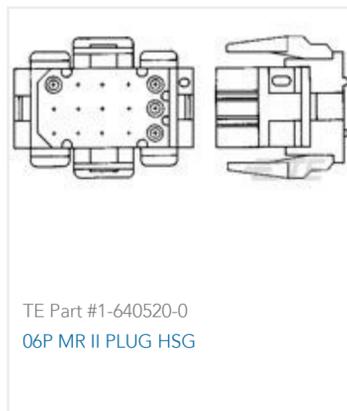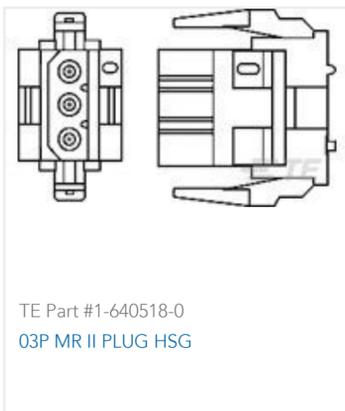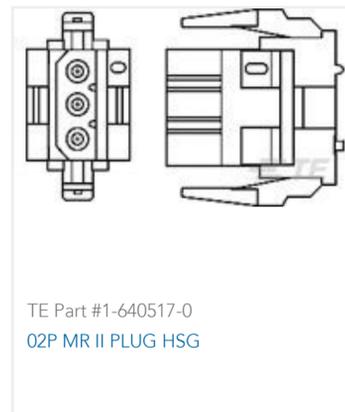
Compatible Parts

4 Position, Cap, Housing, Crimp, Wire-to-Panel / Wire-to-Wire, UL 94V-0, 4.2 mm [.165 in] Centerline, 2 Row, 250 VAC, AMP Miniature Rectangular MR

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

TE Part # 2063388-1
TOOL, EXTRACTION

Also in the Series | AMP Miniature Rectangular MR

Connector Caps & Covers(15)

Connector Contacts(20)

Connector Hardware(2)

Connector Strain Relief(9)

PCB Headers & Receptacles(57)

Power Contacts(20)

Rectangular Power Connectors(77)

Wire-to-Board Headers & Receptacles (57)

Customers Also Bought

TE Part #CN2895-000
SBP075094WE10

TE Part #61021-1
SPLICE 18-16 AWG .0126 NPST

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

TE Part #1-640517-0
02P MR II PLUG HSG

TE Part #1-640518-0
03P MR II PLUG HSG

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

TE Part #641300-1
MR RECPT PTPHBZ LP 26-18

TE Part #643030-4
05P UMNL STR/REL

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TE Part #2-1393030-2
SSRT-240D25 = PANEL MOUNT,25A, 240VAC

TE Part #11021066-00
CHPG-GOLDCHIP

Documents

Product Drawings
04P MR II CAP HSG V0

English

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CAD Files
3D PDF

3D

Customer View Model
ENG_CVM_CVM_1-640509-0_AG.2d_dxf.zip

English

Customer View Model
ENG_CVM_CVM_1-640509-0_AG.3d_igs.zip

English

Customer View Model
ENG_CVM_CVM_1-640509-0_AG.3d_stp.zip

English

3D PDF

English

Customer View Model
ENG_CVM_1-640509-0_F.2d_dxf.zip

English

Customer View Model
ENG_CVM_1-640509-0_F.3d_igs.zip

English

Customer View Model
ENG_CVM_1-640509-0_F.3d_stp.zip

English

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Datasheets & Catalog Pages
M_SERIES_PIN_AND_SOCKET_CONNECTORS

English

SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG

English

mr-miniature-rectangular-connectors

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4 Position, Cap, Housing, Crimp, Wire-to-Panel / Wire-to-Wire, UL 94V-0, 4.2 mm [.
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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