

1-640513-0 ✓ ACTIVE



AMP | AMP Miniature Rectangular MR

TE Internal #: 1-640513-0

15 Position, Cap, Housing, Crimp, Wire-to-Panel / Wire-to-Wire, UL 94V-0, 4.2 mm [.165 in] Centerline, 5 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 Retention: **With**

Mating Retention Type: **Positive Lock**

Termination Method to Wire & Cable: **Crimp**

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	15
Number of Rows	5
Number of Power Positions	0
Number of Signal Positions	15

Electrical Characteristics

Operating Voltage	250 VDC
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Body Features

Primary Product Color	Black
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Contact Features

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

Termination Features

Termination Method to Wire & Cable	Crimp
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Mechanical Attachment

Panel Mount Feature	Without
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

Compatible Insulation Diameter Range	2.92 mm [.115 in]
Connector Width	29.72 mm [1.17 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 mm ²

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

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	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>

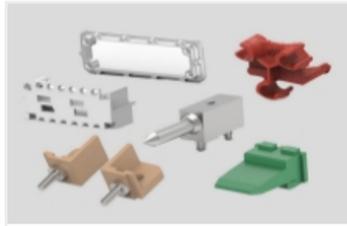
Compatible Parts



Also in the Series | AMP Miniature Rectangular MR



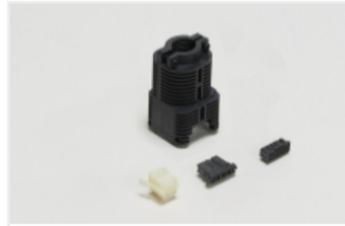
Connector Contacts(20)



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)

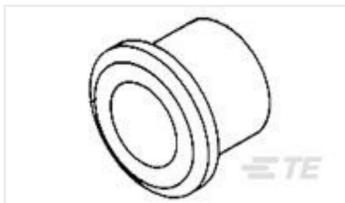
Customers Also Bought



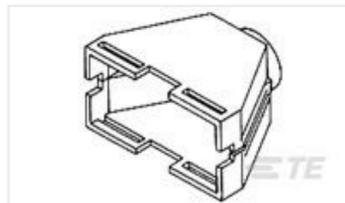
TE Part #32561
PIDG SPDFLG 22-16COMM22-18MIL6



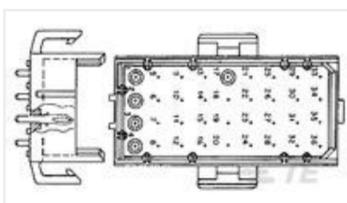
TE Part #41013
RING TERMINAL 22-18 AWG TPBR



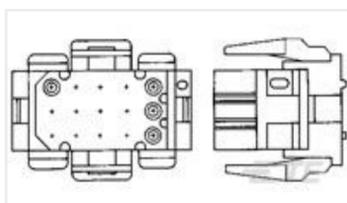
TE Part #2-350379-1
MR SPLT GROMET .250 DIA BLK LF



TE Part #350524-1
24P STR/REL HSG HNGD V0



TE Part #640505-1
24P MR HDR ASSY V0



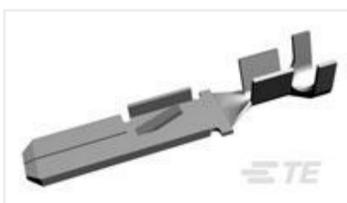
TE Part #1-640521-0
09P MR II PLUG HSG V0



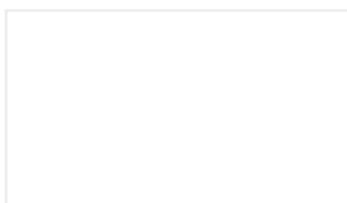
TE Part #5748634-1
KIT,RCPT,15P,HDP-22,SHLD HDWRE



TE Part #5053142385
RNF-100-3/8-BK-STK



TE Part #153301-2
5.16 TAB



TE Part #1424650-1
BLADE, STRIP, OUTER

Documents

Product Drawings

15P MR II CAP HSG V0

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1-640513-0_AE.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-640513-0_AE.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1-640513-0_AE.3d_stp.zip](#)

English

3D PDF

English

Customer View Model

[ENG_CVM_1-640513-0_D.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_1-640513-0_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_1-640513-0_D.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

M_SERIES_PIN_AND_SOCKET_CONNECTORS

English

SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG

English

mr-miniature-rectangular-connectors

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