

1-640512-0 ✓ ACTIVE

AMP | AMP Miniature Rectangular

TE Internal #: 1-640512-0

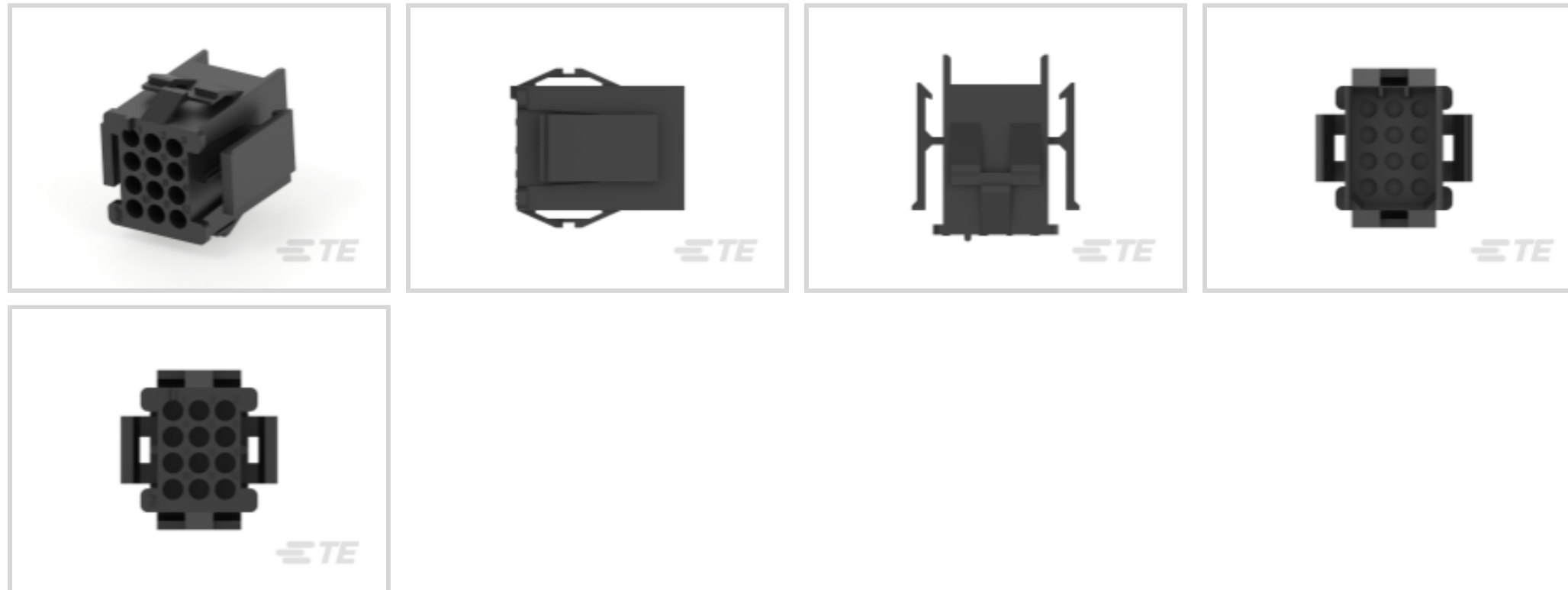
Rectangular Power Connectors, Housing, Receptacle, Wire-to-Wire / Wire-to-Panel, 12 Position, 4.2 mm [.165 in] Centerline, AMP

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

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 [1.005 in]
-------	---------------------

Accepts Wire Insulation Diameter Range	2.92 mm [.115 in]
--	-------------------

Height	7.37 mm [.29 in]
--------	------------------

Length	26.92 mm [1.06 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	700

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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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

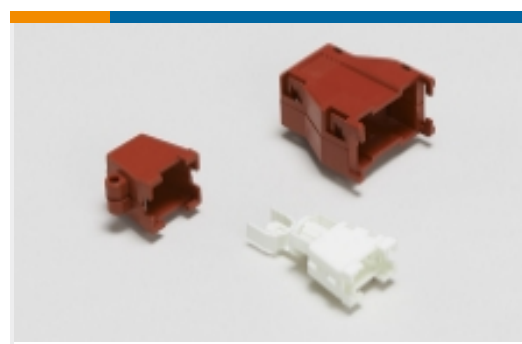
Product Compliance Disclaimer

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](#)



Rectangular Boots & Strain Relief(3)



Rectangular Power Connectors(9)

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

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 CAP HSG V0 RED

English

12P MR II CAP HSG V0 RED

English

Instruction Sheets

Instruction Sheet (U.S.)

English

AMP* MINIATURE RECTANGULAR II (MRII) CONNECTORS

English

Agency Approvals

Agency Approval Document

English