

1-968977-9 ✓ ACTIVE

AMP | AMP MCP 2.8, AMP MCP Connector System

TE Internal #: 1-968977-9

12 V / 24 V, 3 Position, Automotive Housing for Male Terminals, Wire-to-Wire, 5.5 mm [.217 in] Centerline, Black, Wire & Cable, Power, Hybrid

[View on TE.com >](#)



Automotive Parts > Automotive Connectors > Automotive Housings > AMP Unsealed Connector Housing



Nominal Voltage Architecture: 12 V, 24 V

Connector & Housing Type: **Housing for Male Terminals**

Number of Positions: **3**

Sealable: **No**

Operating Temperature Range: -40 – 120 °C [ -40 – 248 °F ]

[All AMP Unsealed Connector Housing \(109\)](#)

## Features

### Product Type Features

Mixed & Hybrid Connector	No
Connector Shape	Rectangular
Connector & Housing Type	Housing for Male Terminals
Sealable	No
Primary Locking Feature	Locking Lance
Connector System	Wire-to-Wire
Connector & Contact Terminates To	Wire & Cable

### Configuration Features

Number of Positions	3
Number of Rows	1

### Electrical Characteristics

Operating Voltage	28 VDC
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Nominal Voltage Architecture	12 V, 24 V
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### Body Features

Cable Exit Angle	180 °
Primary Product Color	Black
Connector & Keying Code	A

### Contact Features

Contact Size	2.8mm
Contact Type	Tab
Mating Tab Width	2.8 mm[.11 in]
Contact Current Rating (Max)	44 A

### Mechanical Attachment

Strain Relief	Without
Terminal Position Assurance	No
Mating Alignment Type	Keyed
Mating Alignment	With
Connector Mounting Type	Panel Mount

### Housing Features

Housing Material	PA 66 GF
Centerline (Pitch)	5.5 mm[.217 in]

### Dimensions

Product Width	42 mm[1.65 in]
Product Length	32.1 mm[1.26 in]
Connector Height	12.4 mm[.488 in]

### Usage Conditions

Operating Temperature Range	-40 – 120 °C[-40 – 248 °F]
Operating Temperature (Max)	120 °C[248 °F]

### Operation/Application

Circuit Application	Power
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### Industry Standards

IP Rating	IP30
UL Flammability Rating	UL 94HB

### Packaging Features



Packaging Quantity	1500
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Packaging Method	Box
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### Other

Serviceable	Yes
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Connector Position Assurance Capable	No
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## Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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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
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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
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Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
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Solder Process Capability	Not applicable for solder process capability
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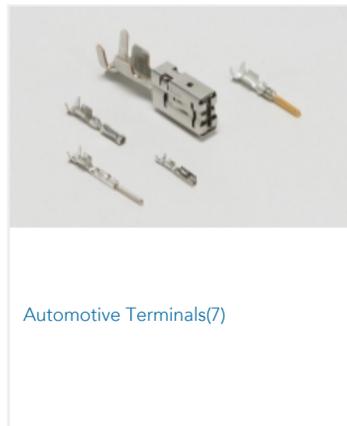
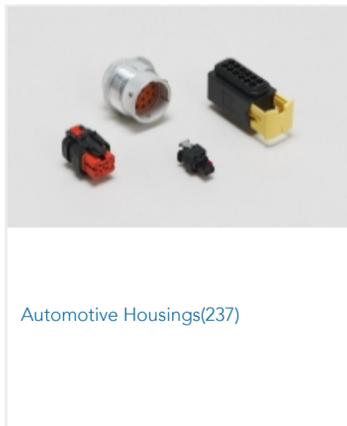
#### Product Compliance Disclaimer

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>

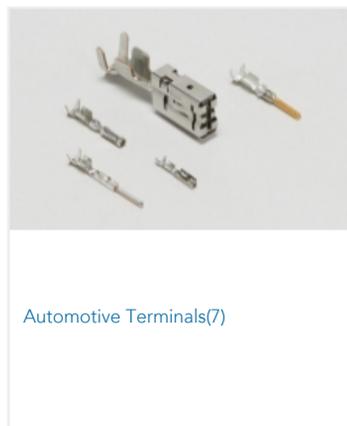
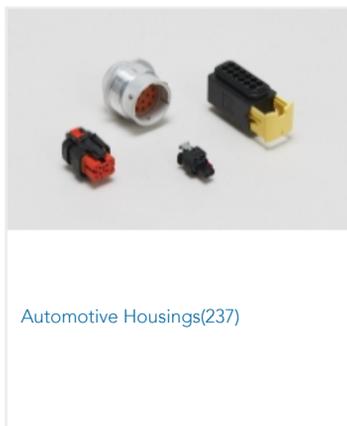
## Compatible Parts

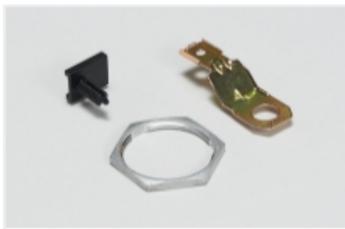


### Also in the Series | AMP MCP 2.8



### Also in the Series | AMP MCP Connector System





Other Automotive Connector Accessories(4)

## Customers Also Bought



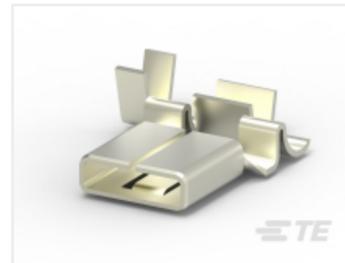
TE Part #180453-1  
FF 312 REC 1-2.5MM2 BR



TE Part #4-745130-0  
SHLDING FERRULE,PLTD,BULK PKG



TE Part #CAT-AM705-CH8173  
AMP Unsealed Connector Housing



TE Part #1544113-4  
CLIP DRAP. 6,3 G1



TE Part #1544351-1  
CAP.CLIP DRAPEAU 6



TE Part #1544352-1  
CAP.CLIP DRAPEAU 6



TE Part #4-2176345-5  
CRGCO 1210 47K 1%



TE Part #2420712-1  
Mon Wire 40 Sh Sil 225x1000x0.8mm Sheet



TE Part #185010-1  
HEADLIGHT HOUSING HOUSING

## Documents

### Product Drawings

[2,8MM FLA-STE-GEH3P](#)

English

### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_1-968977-9\\_B.2d\\_dxf.zip](#)

English

[3D PDF](#)



3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-968977-9\\_B.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-968977-9\\_B.3d\\_stp.zip](#)

English

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

### Product Specifications

[HOUSINGS FOR AMP MCP2.8 CONTACT, UNSEALED](#)

English

[Application Specification](#)

English