

8-968975-1 ✓ ACTIVE

AMP | AMP MCP 2.8, AMP MCP Connector System

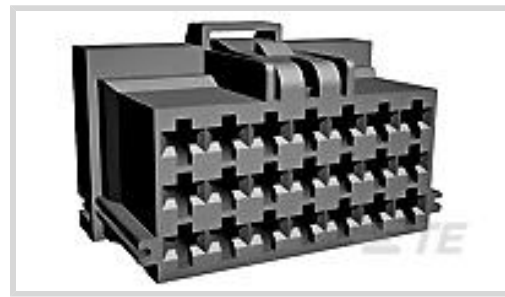
TE Internal #: 8-968975-1

Housing for Female Terminals, Wire-to-Wire, 21 Position, .197 in [5 mm] Centerline, Brown, Signal, Cable Mount (Free-Hanging), Hybrid

[View on TE.com >](#)



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



Connector System: **Wire-to-Wire**

Number of Positions: **21**

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

Centerline (Pitch): **5 mm [.197 in]**

Sealable: **No**

[All AMP Unsealed Connector Housing \(176\)](#)

Features

Product Type Features

Mixed & Hybrid Connector	No
Connector Shape	Rectangular
Connector System	Wire-to-Wire
Connector & Housing Type	Housing for Female Terminals
Sealable	No
Primary Locking Feature	On the Terminal

Configuration Features

Number of Positions	21
Number of Rows	3

Electrical Characteristics

Operating Voltage	28 VDC
Nominal Voltage Architecture	12 V, 24 V

Body Features

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

Contact Features



Contact Size	2.8mm
Contact Type	Receptacle
Mating Tab Width	2.8 mm[.11 in]

Mechanical Attachment

Terminal Position Assurance	Yes
Strain Relief	Without
Mating Alignment Type	Keyed
Mating Alignment	With
Connector Mounting Type	Cable Mount (Free-Hanging)

Housing Features

Housing Material	PBT GF
Centerline (Pitch)	5 mm[.197 in]

Dimensions

Connector Height	24 mm[.945 in]
Product Length	37.5 mm[1.476 in]

Usage Conditions

Operating Temperature (Max)	70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C[158 °F][167 °F][176 °F][185 °F][194 °F][212 °F][221 °F][230 °F][248 °F]
Operating Temperature Range	-40 – 120 °C[-40 – 248 °F]

Operation/Application

Circuit Application	Signal
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Packaging Features

Packaging Quantity	900
Packaging Method	Carton

Other

Serviceable	No
Connector Position Assurance Capable	No

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
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	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable for solder process capability

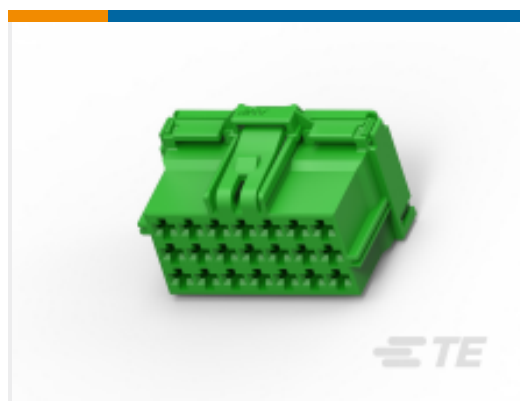
Product Compliance Disclaimer

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 # CAT-T4827-CH8172
Timer Connector Housing



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



TE Part # 966140-6
MESSERLEISTE 21P



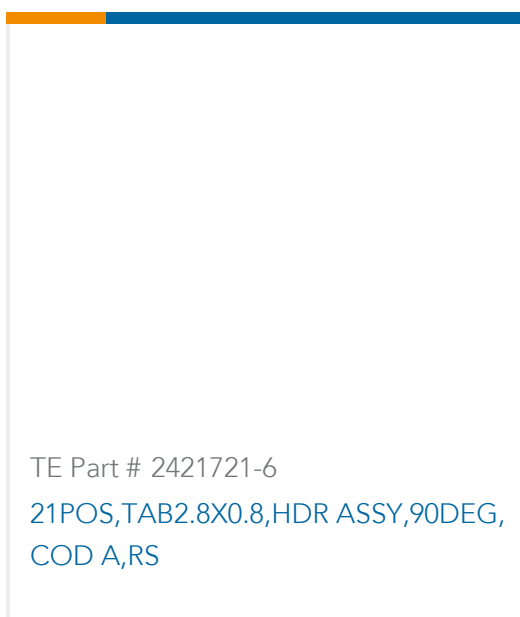
TE Part # CAT-LMPH9507
Low & Medium Power Header



TE Part # 967635-1
2.0 KONT



TE Part # CAT-AM705-T273
AMP MCP, RECEPTACLE AND TAB

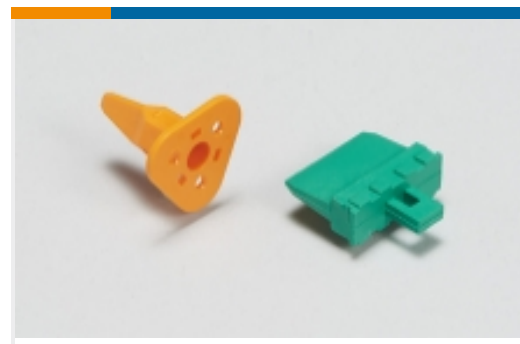


TE Part # 2421721-6
21POS,TAB2.8X0.8,HDR ASSY,90DEG,COD A,RS

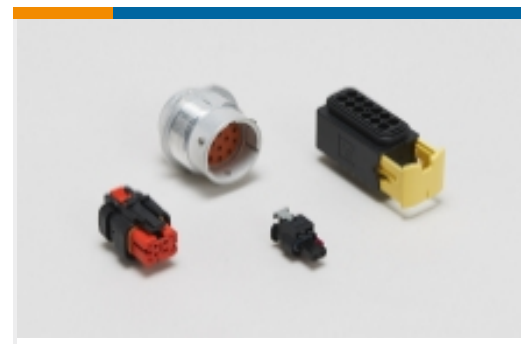
Also in the Series | AMP MCP 2.8



Automotive Connector Caps & Covers (1)



Automotive Connector Locks & Position Assurance (5)



Automotive Housings (162)



Automotive Terminals (54)



Connector Seals & Cavity Plugs (3)



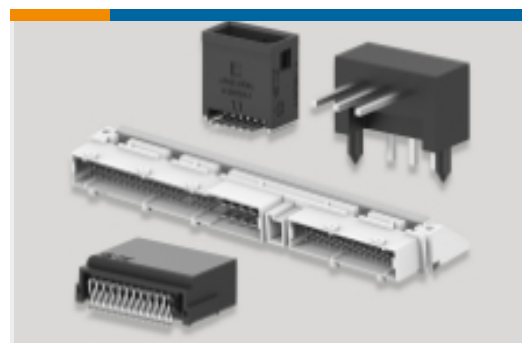
Insertion & Extraction Tools (6)



Module Components (1)



Other Automotive Connector Accessories (1)

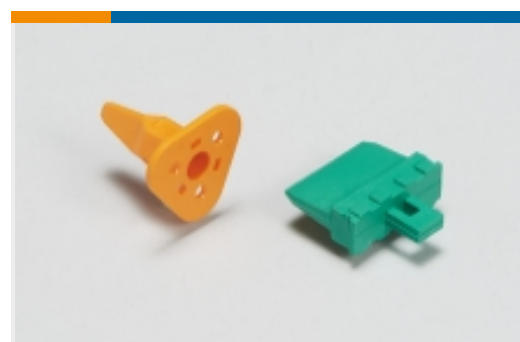


PCB Headers & Receptacles (1)

Also in the Series | AMP MCP Connector System



Automotive Connector Caps & Covers (24)



Automotive Connector Locks & Position Assurance (4)



Automotive Housings (260)



Automotive Terminals (10)



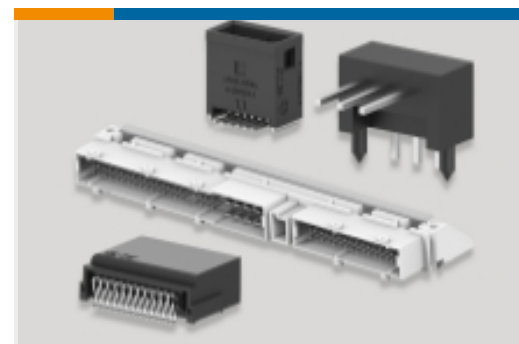
Connector Seals & Cavity Plugs (5)



Insertion & Extraction Tools (13)



Other Automotive Connector Accessories (2)



PCB Headers & Receptacles (28)



Customers Also Bought



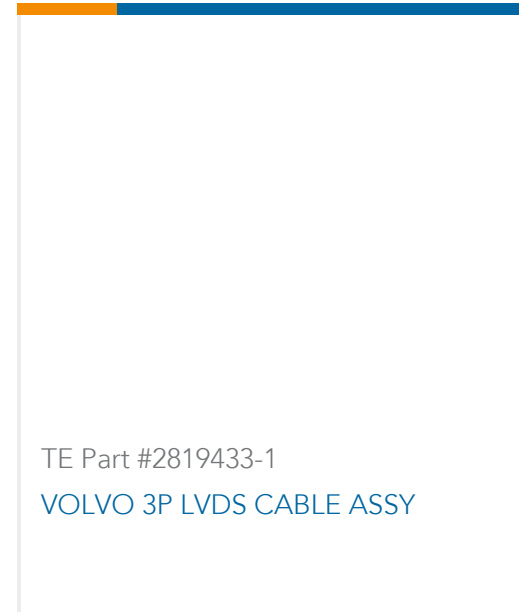
TE Part #8-968972-1
AMP Unsealed Connector Housing



TE Part #1241374-2
AMP MCP, RECEPTACLE AND TAB



TE Part #444406-1
REC. 110 SERIES FATIN-ON



TE Part #2819433-1
VOLVO 3P LVDS CABLE ASSY

Documents

Product Drawings

[MCP2.8 GEH 21P](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_8-968975-1_F.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_8-968975-1_F.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_8-968975-1_F.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English