9-966140-6 ✔ ACTIVE

AMP | AMP MCP Connector System

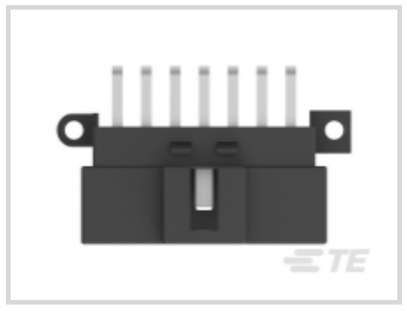
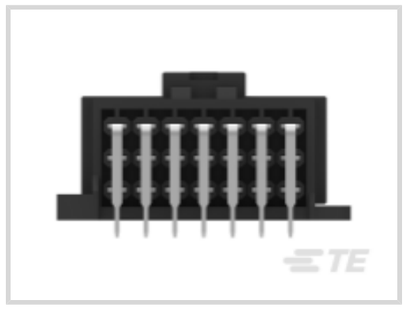
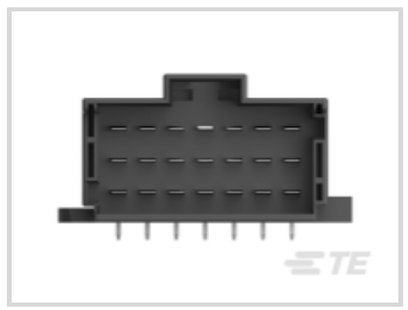
TE Internal #: 9-966140-6

Horizontal, Wire-to-Board, 21 Position, 3 Row, 3.5mm [.138in] Centerline, Tin (Sn), Printed Circuit Board, Signal, Black, AMP MCP Connector System

View on TE.com >

Automotive Parts > Automotive Connectors > Automotive Headers > AMP MCP Unsealed Headers



PCB Mount Orientation: **Horizontal**

Termination Method to PCB: **Through Hole - Solder**

Sealable: **No**

Centerline (Pitch): **3.5 mm [.138 in]**

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

All AMP MCP Unsealed Headers (17)

Features

Product Type Features

Connector Product Type	Connector Assembly
Mixed & Hybrid Header	No
Header Type	Fully Shrouded
Connector Shape	Rectangular
Sealable	No
Connector System	Wire-to-Board
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Signal Positions	21
PCB Mount Orientation	Horizontal
Number of Positions	21
Number of Rows	3

Electrical Characteristics

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

Body Features

Connector & Keying Code	A
Primary Product Color	Black

Contact Features

Mating Tab Width	2.8 mm[.11 in]
Mating Tab Thickness	.8 mm[.031 in]
Contact Type	Tab
Contact Mating Area Plating Material	Tin (Sn)

Termination Features

Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

Panel Mount Feature	With
Mating Retention Type	Locking Interface
PCB Mount Retention	Without
Mounting Holes	With
PCB Mount Retention Type	Solder Tail
Mating Alignment	With
PCB Mount Alignment	Without
Connector Mounting Type	Panel Mount

Housing Features

Centerline (Pitch)	3.5 mm[.138 in]

Dimensions

Connector Width	20.3 mm[.791 in]
Connector Length	51 mm[2.008 in]
Profile Height from PCB	26.2 mm[1.031 in]

Usage Conditions

Operating Temperature (Max)	65 °C, 70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C[212 °F]
Operating Temperature Range	-30 – 100 °C[-22 – 212 °F]

Operation/Application

Shielded	No
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94HB

Packaging Features

Packaging Quantity	112
Packaging Method	Tray

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	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Wave solder capable to 260°C

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 # 6-968975-1
MCP2.8 GEH ASSY 21P

Also in the Series | AMP MCP Connector System



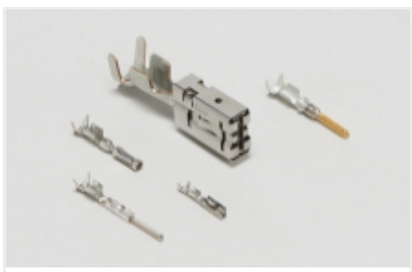
Automotive Connector Caps & Covers (26)



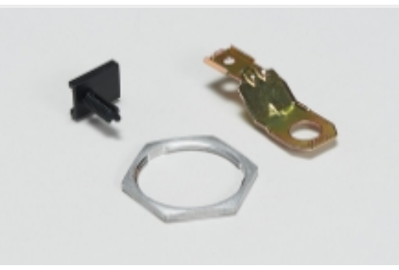
Automotive Signal & Power Connector Housings(83)



Automotive Signal & Power Headers(5)

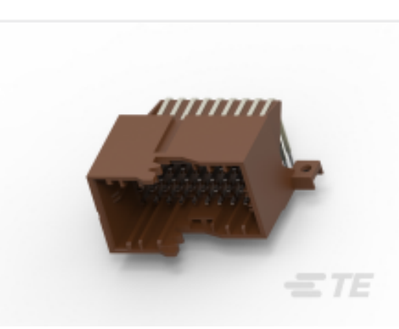


Automotive Terminals(6)



Other Automotive Connector Accessories(4)

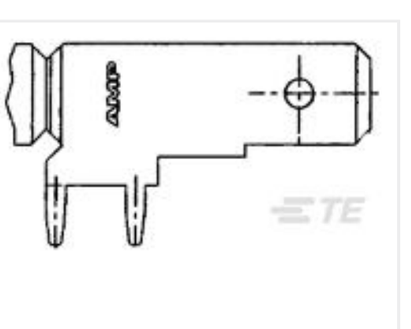
Customers Also Bought



TE Part #CAT-M4599-H342
AMP MCP Unsealed Headers



TE Part #966870-3
16POS,TAB0.63X0.63,HDR ASSY,90 DEG,COD B



TE Part #1217754-1
250 FASTON,FLAG,PCB TAB,TNBR



TE Part #2-1379165-1
4pos MQS .63 header 180deg THR



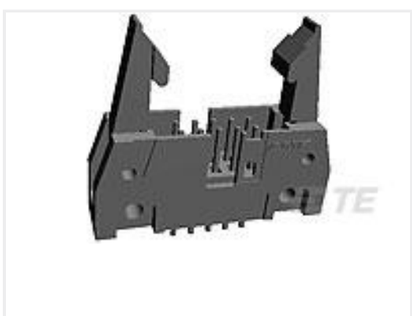
TE Part #2-1614885-7
CPF 0805 910K 0.1% 25PPM 1K RL



TE Part #6-1879223-6
CPF 0603 1K21 0.1% 25PPM 1K RL



TE Part #2304168-5
4P MATE-AX, HDR ASSY,90 DEG,COD E



TE Part #5499160-1
A/L UNIV HDR 10P VERT SHT LAT



TE Part #1743752-2
CLIP HSG FOR MQS TREE TYPE

Documents

Product Drawings

MESSERLEISTE 21P

English

CAD Files

Customer View Model

ENG_CVM_CVM_9-966140-6_F.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_9-966140-6_F.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_9-966140-6_F.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Product Specifications

Application Specification

English