9-966140-6 ✔ ACTIVE

AMP | AMP MCP Connector System

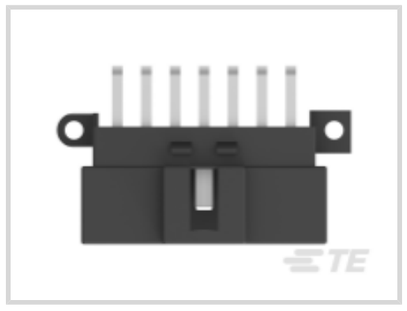
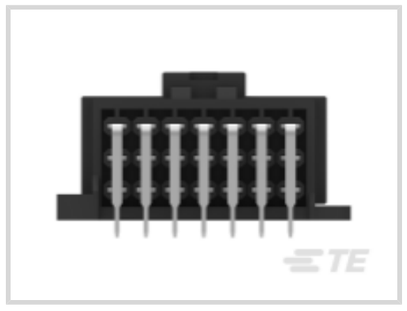
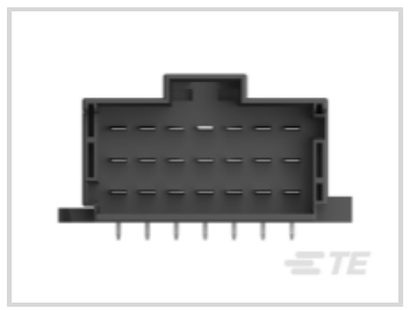
TE Internal #: 9-966140-6

PCB Mount Header, Horizontal, Wire-to-Board, 21 Position, 3.5 mm [.138 in] Centerline, Fully Shrouded, Tin, AMP MCP Connector System

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles > AMP MCP Unsealed Headers



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

Number of Positions: **21**

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

Sealable: **No**

PCB Mount Orientation: **Horizontal**

All AMP MCP Unsealed Headers (17)

Features

Product Type Features

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

Configuration Features

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

Electrical Characteristics

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

Body Features

Primary Product Color	Black
Connector & Keying Code	A

Contact Features

Contact Size	3mm
Contact Type	Tab
Mating Tab Width	2.8 mm[.11 in]
Mating Tab Thickness	.8 mm[.031 in]
Contact Mating Area Plating Material	Tin

Termination Features

Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

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

Housing Features

Centerline (Pitch)	3.5 mm[.138 in]

Dimensions

Connector Length	51 mm[2.008 in]
Connector Width	20.3 mm[.791 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[149 °F][158 °F][167 °F][176 °F][185 °F][194 °F][212 °F]
Operating Temperature Range	-40 – 100 °C[-40 – 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	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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

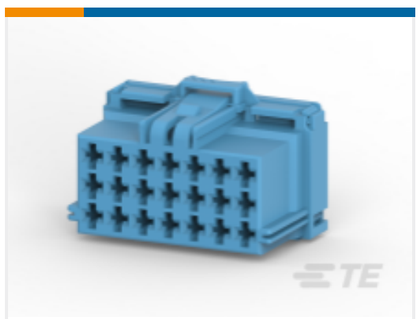
Product Compliance Disclaimer

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

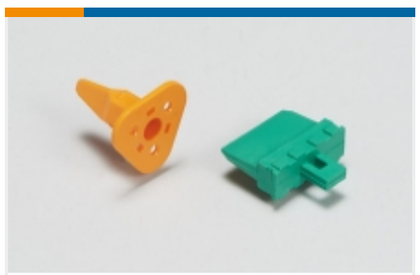


TE Part # 6-968975-1
MCP2.8 GEH ASSY 21P

Also in the Series | AMP MCP Connector System



Automotive Connector Caps & Covers (24)



Automotive Connector Locks & Position Assurance(4)



Automotive Housings(260)



Automotive Terminals(11)



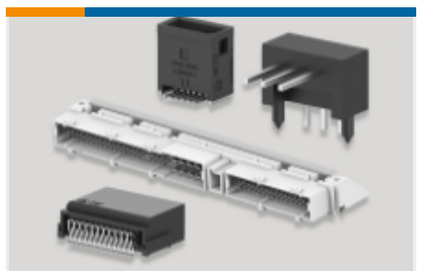
Connector Seals & Cavity Plugs(5)



Insertion & Extraction Tools(13)



Other Automotive Connector Accessories(2)



PCB Headers & Receptacles(28)

Customers Also Bought

TE Part #1-1318983-6
DYNAMIC D-5200M ALPHA HDR ASSY 4P XX AG

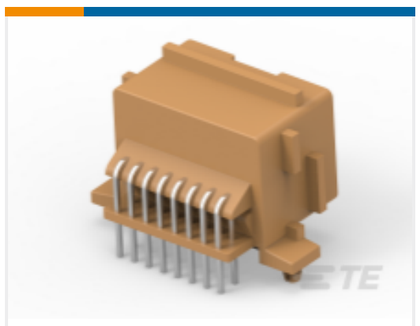
TE Part #8-966140-6
TAB HEADER 2.8 X 0.8 MM 21 POS

TE Part #9-966140-4
AMP MCP Unsealed Headers

TE Part #967279-1
3pos MQS .63 header 90deg THR



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



TE Part #966870-2
16POS,TAB0.63X0.63,HDR ASSY,90 DEG,COD A



TE Part #2-2176421-7
TLRP 2512 2.0W R050 1% 25PPM 4K RL

TE Part #1-1372469-0
LOCKING BOLT

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

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

TE Connectivity:

1-962915-1 141991-2 SMW73R0JT 175977-2 1969656-1 2-292161-3 917696-1 3430B2F51RTDF 936348-1 RH73H2A40MKTN 1-794222-0 1743455-2 1903112-2 2005330-1 3-1393225-0 2310537-1 CPF0402B37K4E1 SBCHE154R7K 2377783-2 650075-000 MPT100C18RF U5254-000005-030PA 1393431-1 CRGCQ2010J3K3 ROX05SJ18R SBCHE64R7K 2380312-2 2834055-1 3631B101LL TE50BR39J