

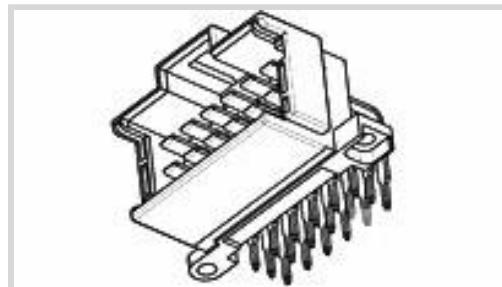
3-966140-6  ACTIVE**Timer Connector System**

TE Internal #: 3-966140-6

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

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles > Low & Medium Power Header

PCB Connector Assembly Type: **PCB Mount Header**PCB Mount Orientation: **Horizontal**Connector System: **Wire-to-Board**Number of Positions: **21**Number of Rows: **3**[All Low & Medium Power Header \(99\)](#)**Features****Electrical Characteristics**

Operating Voltage 24 VDC

Nominal Voltage Architecture 24 V, 12 V

Dimensions

Connector Width 20.3 mm [.791 in]

Profile Height from PCB 26.2 mm [1.031 in]

Connector Length 51 mm [2.008 in]

Packaging Features

Packaging Quantity 112

Packaging Method Tray

Usage Conditions

Operating Temperature (Max) 80 °C, 90 °C, 100 °C, 65 °C, 85 °C, 75 °C, 70 °C [212 °F]

Operating Temperature Range -30 – 100 °C [-22 – 212 °F]

Body Features

Connector & Keying Code A

Primary Product Color Black

Operation/Application

Shielded	No
Circuit Application	Signal

Mechanical Attachment

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

Contact Features

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

Configuration Features

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

Product Type Features

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

Termination Features

Termination Method to PCB

Through Hole - Solder

Housing Features

Centerline (Pitch)

3.5 mm [.138 in]

Industry Standards

UL Flammability Rating

UL 94HB

Other

EU RoHS Compliance

Compliant

EU ELV Compliance

Compliant

Product ComplianceFor compliance documentation, visit the product page on [TE.com](https://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 # 8-968975-1
MCP2.8 GEH 21P



TE Part # CAT-T4827-CH8172
Timer Connector Housing



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

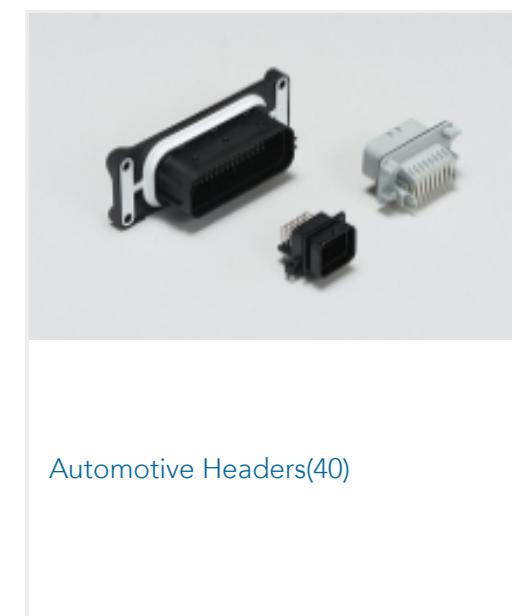
Also in the Series | Timer Connector System



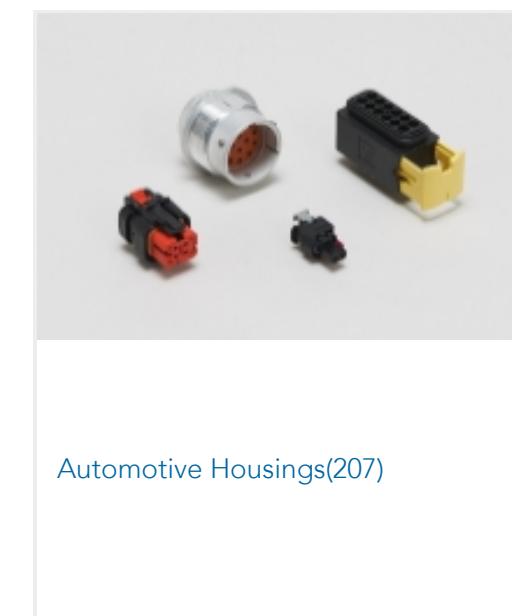
Automotive Connector Caps & Covers (13)



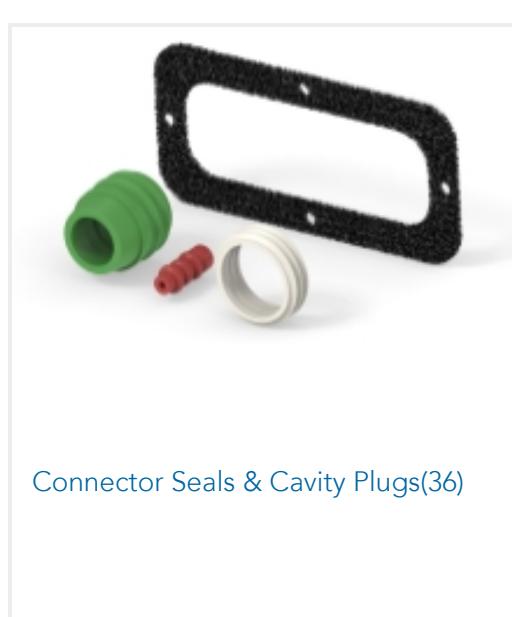
Automotive Connector Locks & Position Assurance(15)



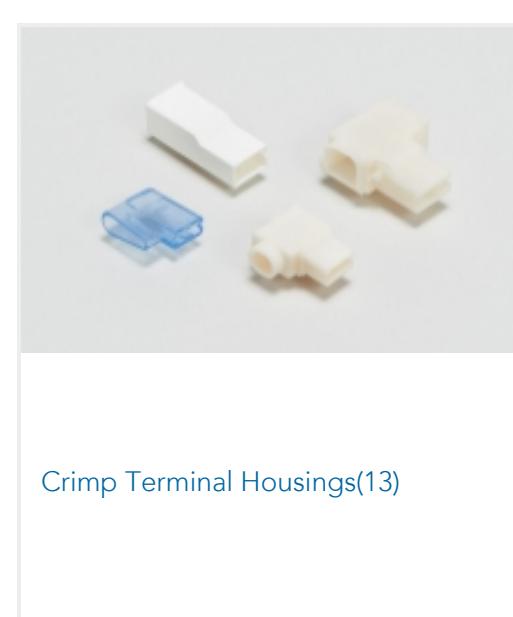
Automotive Headers(40)



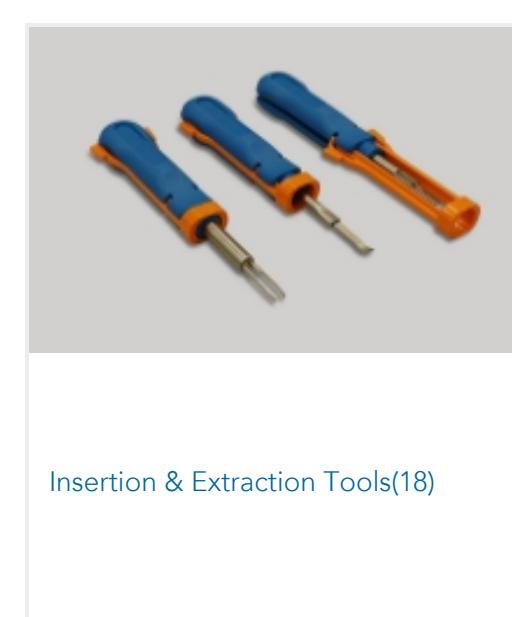
Automotive Housings(207)



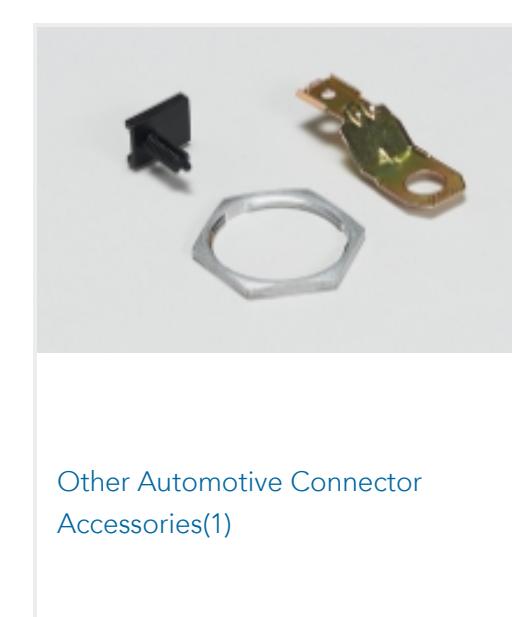
Connector Seals & Cavity Plugs(36)



Crimp Terminal Housings(13)



Insertion & Extraction Tools(18)



Other Automotive Connector Accessories(1)



PCB Headers & Receptacles(40)



Wire-to-Board Headers & Receptacles (39)

Customers Also Bought



TE Part #770669-1
23POS,PIN DIA 1.3,HDR ASSY,90DEG,
COD 1



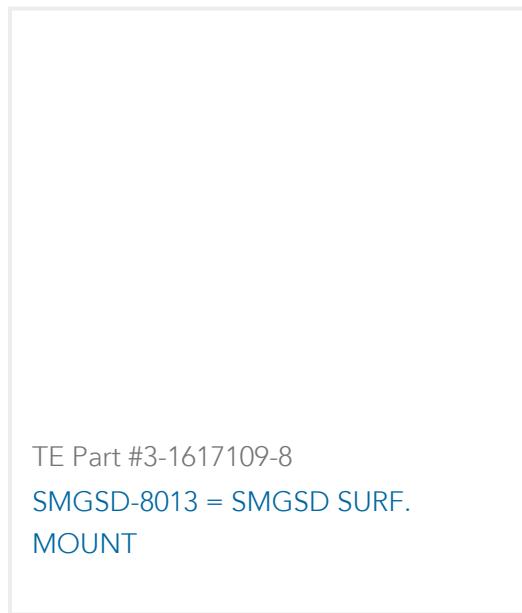
TE Part #CAT-LMPH9507
Low & Medium Power Header



TE Part #CAT-SU763-H342
SUPERSEAL Connector Headers: 1.0 mm



TE Part #966140-1
MESSERLEISTE 18P



TE Part #3-1617109-8
SMGSD-8013 = SMGSD SURF.
MOUNT

Documents

Product Drawings

MESSERLEISTE 21P

English

CAD Files

Customer View Model

[ENG_CVM_CVM_3-966140-6_C.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_3-966140-6_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_3-966140-6_C.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