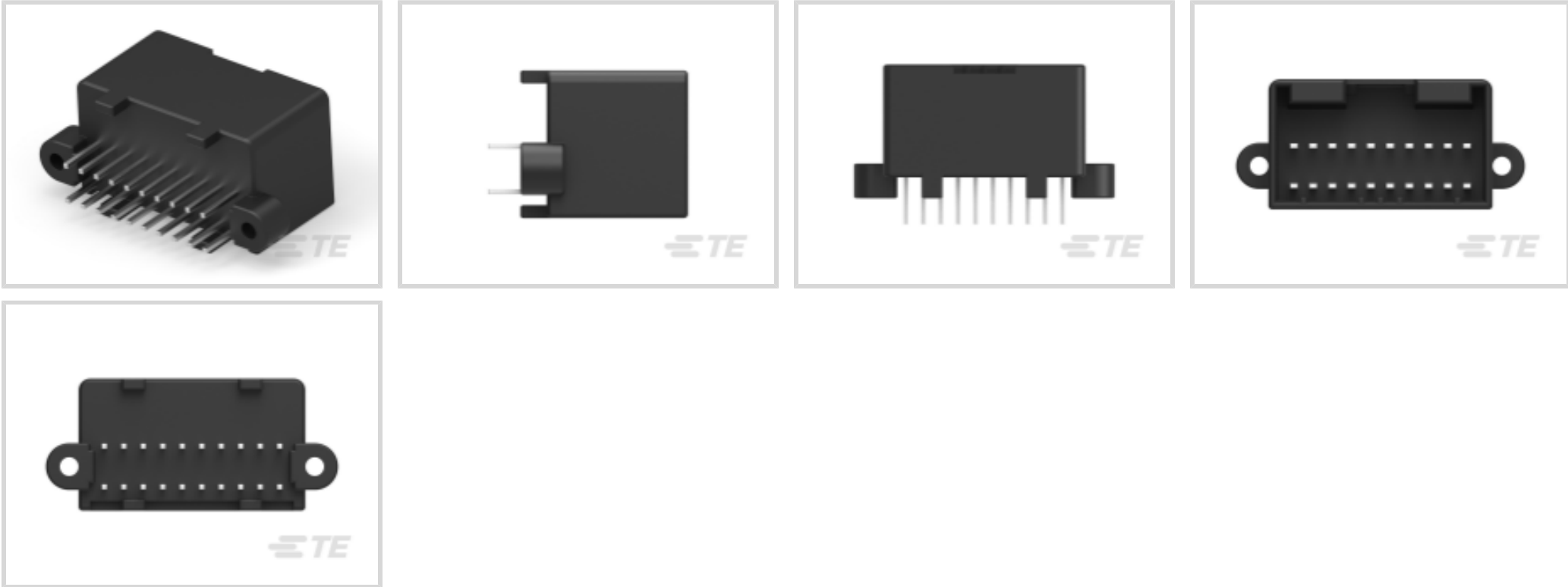




Connectors > PCB Connectors > PCB Headers & Receptacles > Signal Header



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

Number of Positions: **20**

Centerline (Pitch): **2.5 mm [.098 in]**

Sealable: **No**

PCB Mount Orientation: **Vertical**

[All Signal Header \(295\)](#)

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 Sections	1
Number of Signal Positions	20
Number of Positions	20
PCB Mount Orientation	Vertical
Number of Rows	2



Electrical Characteristics

Voltage Rating (Max)	12 VDC
Nominal Voltage Architecture	12 V
Operating Voltage	12 VDC

Body Features

Primary Product Color	Black
-----------------------	-------

Contact Features

Contact Size	1mm
Contact Type	Tab
Mating Tab Width	1 mm[.039 in]
Mating Tab Thickness	.64 mm[.025 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	Without
PCB Mount Retention	Without
Mating Retention Type	Locking Interface

Housing Features

Centerline (Pitch)	2.5 mm[.098 in]
--------------------	-----------------

Dimensions

Connector Length	16.9 mm[.665 in]
Connector Width	37.5 mm[1.476 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Profile Height from PCB	19.2 mm[.756 in]

Usage Conditions

Operating Temperature (Max)	65 °C, 70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C[149 °F][158 °F][167 °F][176 °F][185 °F][194 °F][212 °F][221 °F]
-----------------------------	--



Operating Temperature Range	-30 – 105 °C[-22 – 221 °F]
Operation/Application	
Shielded	No
Circuit Application	Signal
Industry Standards	
UL Flammability Rating	UL 94HB
Packaging Features	
Packaging Quantity	100
Packaging Method	Tube
Other	
Interface Number	174047

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	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not lead free process capable

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 # 174047-2
040 MULTILOCK PLUG 20P

Also in the Series | Multilock Connector System

Automotive Connector Caps & Covers
(10)

Automotive Connector Locks & Position Assurance(3)

Automotive Housings(445)

Automotive Terminals(118)

Connector Seals & Cavity Plugs(2)

Insertion & Extraction Tools(6)

Other Automotive Connector Accessories(12)

PCB Headers & Receptacles(134)

Customers Also Bought

TE Part #7-967288-1
High Pin Count Header

TE Part #2344657-2
FPC ANTENNA, CABLE, MHF, Wi-Fi TRIPLE

TE Part #1612050-9
Signal Header

TE Part #2311788-1
4POS,TAB2.8X0.8,HDR ASSY,90DEG,SLDR



TE Part #5177578-1
[CHAMP PLUG CABLE COVER KIT](#)

TE Part #1-936053-1
[COVER HSG FOR E-J PLUG 3P](#)

TE Part #2-5174954-1
[070 MLC CAP ASSY V 6P GOLD](#)

Documents

Product Drawings

[040 MLC CAP ASSY V 20P](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_174977-2_F.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_174977-2_F.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_174977-2_F.3d_stp.zip](#)

English

[3D PDF](#)

English

Customer View Model

[ENG_CVM_174977-2_D1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_174977-2_D1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_174977-2_D1.3d_stp.zip](#)

English

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

Product Specifications

[Product Specification](#)

Japanese

[Product Specification](#)

Japanese



Instruction Sheets

Instruction Sheet (non U.S.)

English

040 SERIES MULTI-LOCK CONNECTOR

English