1827842-1 ✔ ACTIVE

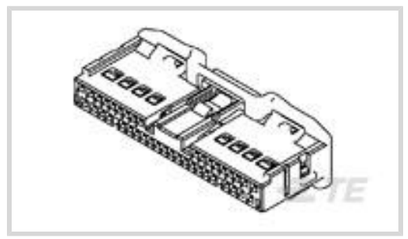
AMP | 0.50 Connector System

TE Internal #: 1827842-1

Housing for Female Terminals, Wire-to-Board / Wire-to-Device, 40 Position, 1.5 mm [.059 in] Centerline, Natural, Signal, 0.50 Connector System

View on TE.com >

Connectors > Automotive Connectors > Automotive Housings > 0.50 CONNECTOR SYSTEM, CONNECTOR HOUSING



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

Number of Positions: **40**

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

Centerline (Pitch): **1.5 mm [.059 in]**

Sealable: **No**

All 0.50 CONNECTOR SYSTEM, CONNECTOR HOUSING (24)

Features

Product Type Features

Mixed & Hybrid Connector	No
Connector Shape	Rectangular
Connector System	Wire-to-Board, Wire-to-Device
Connector & Housing Type	Housing for Female Terminals
Sealable	No
Primary Locking Feature	Integrated in Housing

Configuration Features

Number of Positions	40
Number of Rows	2

Electrical Characteristics

Operating Voltage	12 VDC
Nominal Voltage Architecture	12 V

Body Features

Cable Exit Angle	180°
Primary Product Color	Natural

Contact Features

Contact Size	.5mm
Contact Type	Receptacle
Mating Tab Width	.5 mm[.02 in]

Mechanical Attachment

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

Housing Features

Housing Material	PBT
Centerline (Pitch)	1.5 mm[.059 in]

Dimensions

Connector Height	12.5 mm[.492 in]
Product Width	42.6 mm[1.677 in]
Product Length	15.8 mm[.622 in]
Row-to-Row Spacing	2.54 mm[.1 in]

Usage Conditions

Operating Temperature (Max)	70 °C, 75 °C, 80 °C, 85 °C[158 °F][167 °F][176 °F][185 °F]
Operating Temperature Range	-30 – 85 °C[-22 – 185 °F]

Operation/Application

Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94HB

Packaging Features

Packaging Method	Bag & Box

Other

Serviceable	Yes
Connector Position Assurance Capable	No

Product Compliance

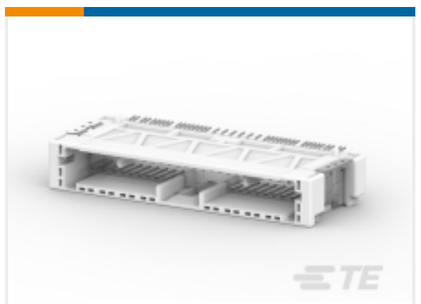
For compliance documentation, visit the product page on TE.com>

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 reviewed 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 # 1871806-5
0.50 SERIES 40POS CAP ASSEMBLY (SMT TYPE)



TE Part # 1827855-3
0.50 SERIES CONNECTER RECEPTACLE CONTACT



TE Part # 1827855-4
0.50 SERIES CONNECTER RECEPTACLE CONTACT



TE Part # 1827855-1
0.50 SERIES CONNECTER RECEPTACLE CONTACT



TE Part # 1827855-2
0.50 SERIES CONNECTER RECEPTACLE CONTACT



TE Part # 1903607-1
1.5 SERIES CONNECTOR 4POS LOCK HOUSING

Also in the Series | 0.50 Connector System



Automotive Connector Caps & Covers (20)



Automotive Housings(52)



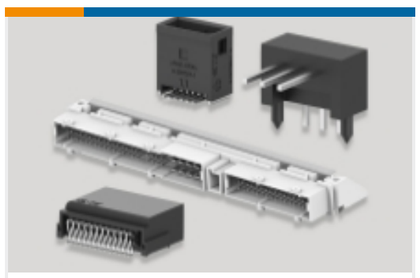
Automotive Terminals(13)



Connector Seals & Cavity Plugs(2)

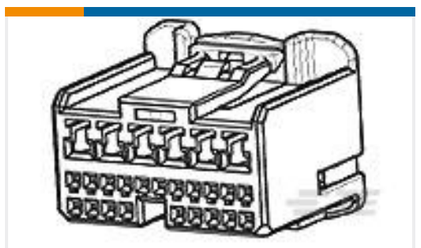


Insertion & Extraction Tools(1)

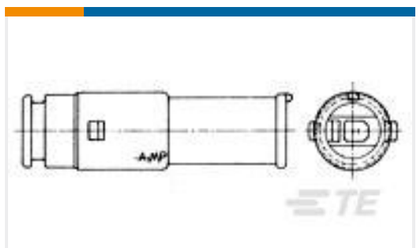


PCB Headers & Receptacles(36)

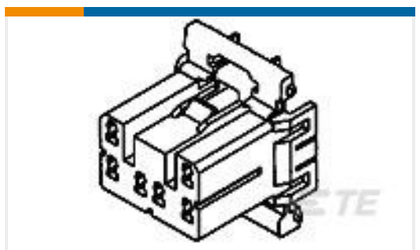
Customers Also Bought



TE Part #1318756-1
025/090 ECU PLUG HSG ASSY 24P



TE Part #172199-1
ECONOSEAL-J CONN CAP 2P NATURA



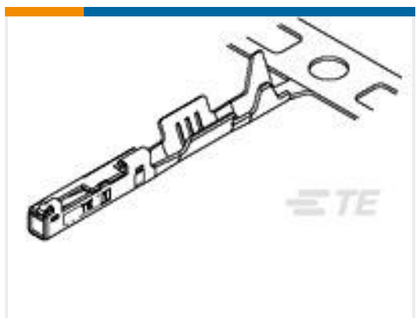
TE Part #173850-1
070 MULTILOCK PLUG 8P



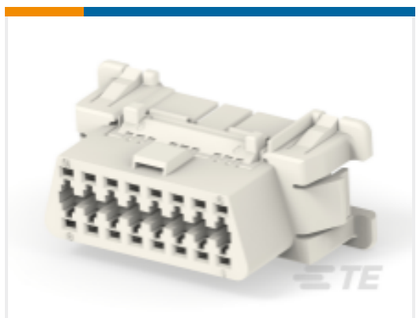
TE Part #6-1379731-3
18pos MQS .63 header 90deg THR



TE Part #2138558-1
2P GENERATION Y Cap, Single-Pi



TE Part #1827855-1
0.50 SERIES CONNECTER RECEPTACLE CONTACT



TE Part #2301724-5
16POS,060 SERIES,REC HSG,UNSLD



TE Part #2405887-1
0.5 SERIES,TERMINAL,0.13-0.22MM2, SN



TE Part #2395681-1
10POS,MQS,REC HSG ASSY,UNSLD, COD A

TE Part #2438804-2
TAB1.6X0.6,TERMINAL,SWS,SN

Documents

Product Drawings

0.50 SERIES CONN 40POS PLUG ASSY TYPE-A

Japanese

CAD Files

Customer View Model

ENG_CVM_CVM_1827842-1_A.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1827842-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1827842-1_A.3d_stp.zip

English

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

Datasheets & Catalog Pages

0.50 Series Connectors

English

Product Specifications

Application Specification

English

Instruction Sheets

Instruction Sheet (non U.S.)

English

0.50 SERIES CONNECTOR

Japanese

Instruction Sheet (non U.S.)

Japanese

Instruction Sheet (non U.S.)

Japanese

EXTRACTION TOOL FOR 0.50 SERIES REC. CONTACT

Japanese

Instruction Sheet (non U.S.)

Japanese

Unikeyic Electronics

Global Electronic Components Distributor

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

TE Connectivity:

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