776539-1 ✔ ACTIVE

AMP | AMPSEAL 16

TE Internal #: 776539-1

Housing for Male Terminals, Wire-to-Wire, 12 Position, .177 in [4.5 mm] Centerline, Sealable, Red, Cable Mount (Free-Hanging), AMPSEAL 16

View on TE.com >

Connectors > Automotive Connectors > Connector Housings > AMPSEAL 16 Housings

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

Mating Pin Diameter: **1.5 mm [.059 in]**

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

Number of Positions: **12**

Centerline (Pitch): **4.5 mm [.177 in]**

All AMPSEAL 16 Housings (226)

Features

Product Type Features

Connector Shape	Rectangular
Connector & Housing Type	Housing for Male Terminals
Connector System	Wire-to-Wire
Sealable	Yes
Hybrid Connector	No
Primary Locking Feature	Integrated in Housing

Configuration Features

Number of Positions	12
Number of Rows	2

Electrical Characteristics

Operating Voltage	250 VDC
Nominal Voltage Architecture	12 V, 24 V, 42 V, 48 V, 80 V, 90 V, 125 V, 240 V

Body Features

Cable Exit Angle	180°
Body Material	PBT GF

Primary Product Color	Red
Connector Code	1

Contact Features

Contact Size	Size 16
Contact Type	Pin
Mating Pin Diameter	1.5 mm[.059 in]
Contact Current Rating (Max)	13 A

Mechanical Attachment

Mounting Feature	Without
Terminal Position Assurance	Yes
Strain Relief	Add By Accessory
Mating Alignment Type	Keyed
Mating Alignment	With
Connector Mounting Type	Cable Mount (Free-Hanging)

Housing Features

Centerline (Pitch)	4.5 mm[.177 in]

Dimensions

Product Width	47.55 mm[1.872 in]
Product Length	37.6 mm[1.48 in]
Product Height	26.65 mm[1.049 in]
Row-to-Row Spacing	5.3 mm[.209 in]

Usage Conditions

Operating Temperature (Max)	70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 °C[158 °F][167 °F][176 °F][185 °F][194 °F][212 °F][221 °F][230 °F][248 °F][257 °F]
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]

Industry Standards

Degree of Protection	IP67
UL Flammability Rating	UL 94HB

Packaging Features

Packaging Quantity	125
Packaging Method	Package

Other

Serviceable	Yes
Connector Position Assurance Capable	Yes

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 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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 applicable 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 # CAT-AM7801-M8649
AMPSEAL 16 Connectors Mounting Clips

TE Part # 776364-1
SEALING PLUG, SZ 20 CAVITY

TE Part # CAT-AM7801-T273
Contacts: Size 16, 13A

TE Part # CAT-AM7801-B128
AMPSEAL 16 Connectors Backshell

TE Part # CAT-AM7801-T618
AMPSEAL 16 REMOVAL TOOLS

TE Part # 776533-1
AS 16, 12P PLUG ASSY,RD,KEY 1

Also in the Series | AMPSEAL 16

Automotive Connector Caps & Covers (85)

Automotive Connector Locks & Position Assurance(2)

Automotive Housings(241)

Automotive Seals & Cavity Plugs(4)

Automotive Terminals(33)

Data Connectivity Headers(2)

Data Connectivity Housings(3)

Other Automotive Connector Accessories(11)

Documents

Product Drawings

AS 16, 12P CAP ASSY, RD, KEY 1

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_776539-1_C_c-776539-1-c.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_776539-1_C_c-776539-1-c.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_776539-1_C_c-776539-1-c.3d_stp.zip

English

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

Datasheets & Catalog Pages

ICT Terminals and Connectors Catalogue

English

CONNECTOR SELECTOR

English

Product Specifications

Application Specification

English

Instruction Sheets

Instruction Sheet (U.S.)

English