776438-1 ✔ ACTIVE

AMP | AMPSEAL 16

TE Internal #: 776438-1

12 V / 24 V / 48 V, 12 Position, Automotive Cap, Wire-to-Wire, 4.5 mm [.177 in] Centerline, Sealable, Black, Wire & Cable, AMPSEAL 16

View on TE.com >

Nominal Voltage Architecture: **12 V, 24 V, 48 V, 240 V**

Connector & Housing Type: **Cap**

Number of Positions: **12**

Sealable: **Yes**

Operating Temperature Range: **-40 – 125 °C [-40 – 257 °F]**

All AMPSEAL 16 Housings (224)

Features

Product Type Features

Mixed & Hybrid Connector	No
Connector Shape	Rectangular
Connector & Housing Type	Cap
Sealable	Yes
Primary Locking Feature	Integrated in Housing
Connector System	Wire-to-Wire
Connector & Contact Terminates To	Wire & Cable

Configuration Features

Number of Positions	12
Number of Rows	2

Electrical Characteristics

Operating Voltage	250 VDC
Nominal Voltage Architecture	12 V, 24 V, 48 V, 240 V

Body Features

Cable Exit Angle	180 °
Primary Product Color	Black

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Connector & Keying Code	A

Contact Features

Contact Size	1.5mm
Contact Type	Pin
Mating Pin Diameter	1.5 mm[.06 in]

Mechanical Attachment

Strain Relief	Add By Accessory
Terminal Position Assurance	Yes
Mating Alignment Type	Keyed
Mating Alignment	With
Connector Mounting Type	Cable Mount (Free-Hanging)

Housing Features

Housing Material	PBT GF
Centerline (Pitch)	4.5 mm[.177 in]

Dimensions

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

Usage Conditions

Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]
Operating Temperature (Max)	125 °C[257 °F]

Industry Standards

IP Rating	IP67
UL Flammability Rating	UL 94HB

Packaging Features

Packaging Quantity	1
Packaging Method	Bag

Other

Serviceable	Yes
Connector Position Assurance Capable	Yes

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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	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 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
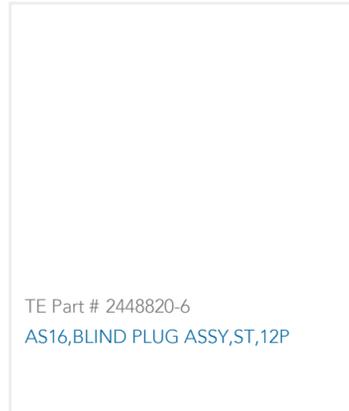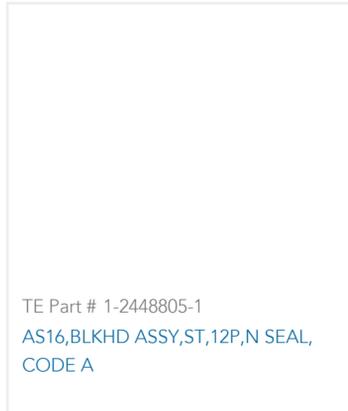
TE Part # 2302486-1
AS16,CAP BACKSHELL KIT,RA,12P, SMOOTH

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

TE Part # 2292865-2
AS16,CAP BACKSHELL KIT,ST,12P, NC20

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

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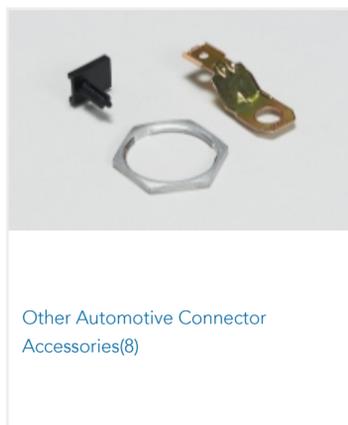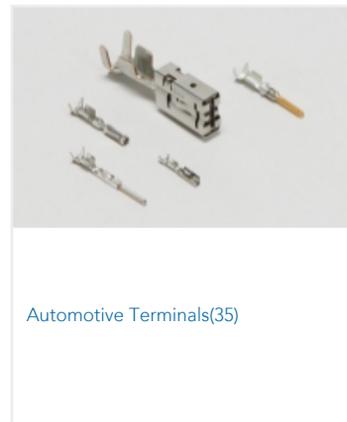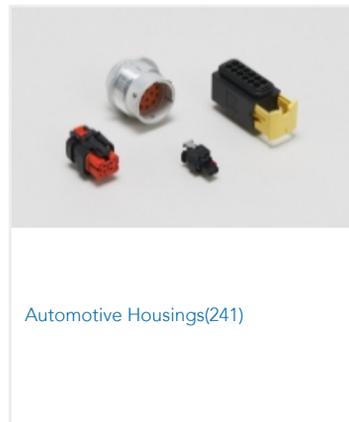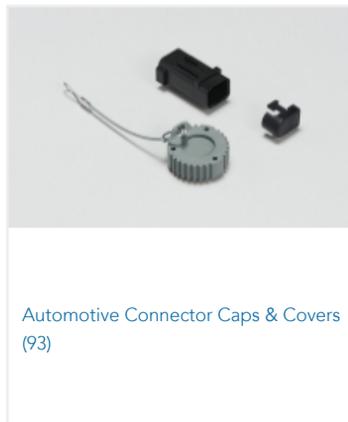
TE Part # CAT-AM7801-T618
Removal Tools — AMPSEAL 16

TE Part # CAT-AM7801-CH8172
AMPSEAL 16 Housings

TE Part # 2292865-1
AS16,CAP BACKSHELL KIT,ST,12P,
SMOOTH

TE Part # 2292865-3
AS16,CAP BACKSHELL KIT,ST,12P,
NC16

TE Part # 1-2448805-1
AS16,BLKHD ASSY,ST,12P,N SEAL,
CODE A

TE Part # 2448820-6
AS16,BLIND PLUG ASSY,ST,12P

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

TE Part # CAT-AM7801-M8649
AMPSEAL 16 Connectors Mounting
Clips

Also in the Series | AMPSEAL 16

Automotive Connector Caps & Covers
(93)

Automotive Housings(241)

Automotive Terminals(35)

Data Connectivity Housings(8)

Other Automotive Connector
Accessories(8)

Customers Also Bought

TE Part #TAA545B1411-002
M12A4-MS-FS-PVC-1.0M

TE Part #CAT-AM7801-CH8172
AMPSEAL 16 Housings

TE Part #2292800-2
AS16,PLUG BACKSHELL KIT,ST,06P,
NC16

TE Part #2292802-2
AS16,PLUG BACKSHELL KIT,ST,12P,
NC20

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TE Part #2292863-2

AS16,CAP BACKSHELL KIT,ST,06P, NC16

TE Part #2292865-2

AS16,CAP BACKSHELL KIT,ST,12P, NC20

Documents

Product Drawings

AS16,CAP ASSY,ST,12P,N SEAL,CODE A

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_776438-1_D_c-776438-1-d.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_776438-1_D_c-776438-1-d.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_776438-1_D_c-776438-1-d.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