

AMP | Heavy Duty Sealed Connector Series

TE Internal #: 1-1670730-1 Housing for Male Terminals, Wire-to-Wire, 3 Position, .157 in [4 mm] Centerline, Sealable, Black, Wire & Cable, Heavy Duty Sealed Connector Series

#### View on TE.com >



Connectors > Automotive Connectors > Automotive Housings > Heavy Duty Sealed Connector Series Housings



Connector System: Wire-to-Wire Number of Positions: **3** Connector & Housing Type: Housing for Male Terminals Centerline (Pitch): **4 mm [.157 in ]** Sealable: **Yes** 

All Heavy Duty Sealed Connector Series Housings (204)

### Features

### Product Type Features

Mixed & Hybrid Connector

Connector Shape	Rectangular
Connector System	Wire-to-Wire
Connector & Housing Type	Housing for Male Terminals
Sealable	Yes
Connector & Contact Terminates To	Wire & Cable
Primary Locking Feature	Integrated in Housing
Configuration Features	
Number of Positions	3
Number of Rows	1
Electrical Characteristics	
Operating Voltage	60 VDC
Nominal Voltage Architecture	60 V
Body Features	
Cable Exit Angle	180°, 90°
Primary Product Color	Black

Housing for Male Terminals, Wire-to-Wire, 3 Position, .157 in [4 mm] Centerline, Sealable, Black, Wire & Cable, Heavy Duty Sealed Connector Series



Contact Features       1.6mm         Contact Size       1.6mm         Contact Type       Tab         Contact Current Rating (Max)       20 A         Contact Current Rating (Max)       20 A         Contact Current Rating (Max)       No         Contact Current Rating (Max)       No         Contact Current Rating (Max)       No         Contact Current Rating (Max)       Add By Accessory         Mating Alignment Type       Keyed         Mating Alignment Type       Cable Mount (Free-         Connector Mounting Type       Cable Mount (Free-         Iousing Features       With         Connector Hought       Part GF         Connector Height       19 mm[.748 in]         Product Width       4.05 mm[.1852 in]         Product Width       2.05 mm[.1852 in]         Product Length       140 °C[284 °F]         Operating Temperature (Max)       140 °C[284 °F]         Operating Temperature Range       -40-140 °C[-40-28         Operating Temperature Range       Power         Operating Temperature Range       Power         Circuit Application       Power         Circuit Application       Power         Circuit Application       Power         C	ith a familia and a familia an		
Contact Size       1.6 mm         Contact Type       Tab         Mating Tab Width       1.6 mm[.063 in]         Contact Current Rating (Max)       20 A         Achanical Attachment       20 A         Terminal Position Assurance       No         Strain Relief       Add By Accessory         Mating Alignment Type       Keyed         Connector Mounting Type       Cable Mount (Free         Iousing Material       PBT GF         Connector Height       PBT GF         Connector Height       19 mm[.748 in]         Product Length       19 mm[.748 in]         Product Length       140 °C[284 °F]         Operating Temperature (Max)       140 °C[284 °F]         Operating Temperature Range       40 - 140 °C[-40 - 28         Operating Temperature Range       Power         Circuit Application       Power         Circuit Application       Power         Adustry Standards       Power         Degree of Protection       Material	itiy and a set of the	Connector & Keying Code	A
Contact TypeTabMating Tab Width1.6 mm[.063 in]Auting Tab Width20 AContact Current Rating (Max)20 AAechanical Attachment20 ATerminal Position AssuranceNoStrain ReliefAdd By AccessoryMating Alignment TypeKeyedConnector Mounting TypeCable Mount (FreeIousing MaterialPBT GFConnector Mounting TypePBT GFCenterline (Pitch)4.05 mm[.1637 in]Vimensions19 mm[.748 in]Product Height27.6 mm[.1087 in]Product Length27.6 mm[.1087 in]Sage Conditions21.6 mm[.024 °F]Operating Temperature (Max)4.0 °C[284 °F]Operating Temperature Range-40 °C[240 °F]Circuit ApplicationPowerCircuit ApplicationPowerOutput StandardsPioneDegree of ProtectionIPA7UI, Flammability RatingU. 94V-0	Tabthe control of the control of	Contact Features	
Mating Tab Width1.6 mm[.063 in]Contact Current Rating (Max)20 Adechanical Attachment20 ATerminal Position AssuranceNoStrain ReliefAdd By AccessoryMating Alignment TypeKeyedMating Alignment TypeCable Mount (Free-Iousing FeaturesVithConnector Mounting TypeCable Mount (Free-Iousing FeaturesPBT GFCenterline (Pitch)4 mm[.157 in]Dimensions19 mm[.748 in]Product Length19 mm[.748 in]Product Length27.6 mm[1.087 in]Sage Conditions40 - 140 °C[.44 °F]Operating Temperature (Max)140 °C[.244 °F]Operating Temperature Range40 - 140 °C[.44 °E]Operating Temperature Range40 - 140 °C[.40 - 28Operation /ApplicationPowerCircuit ApplicationPowerOustry StandardsItof YangDegree of ProtectionIP67UL Flammability RatingUL 94V-0	Ath1.6 mm[.063 in]It Rating (Max)20 AhmentVioland AssuranceNoand TypeKeedant TypeKeedant TypeCable Mount (Free-Hanging)ant TypeCable Mount (Free-Hanging)ant TypePBT GFalPBT GFant Mini (Max)19 mm[.157 in]aph19 mm[.157 in]aph19 mm[.1682 in]aph19 mm[.1682 in]aph40 °C[284 °F]aperature (Max)40 °C[284 °F]aperature Range40 °C[284 °F]aph10 °C (240 °F]aph10 °C (240 °F]aphPoweraph10 °C (240 °F]aphIPF	Contact Size	1.6mm
Contact Current Rating (Max) 20 A Acchanical Attachment 2014 Terminal Position Assurance No Strain Relief Add By Accessory Mating Alignment Type Keyed Mating Alignment Type Color Mount (Free- lousing Features 000000000000000000000000000000000000	kating (Max) 20 A henent in Assurance No Add By Accessory Add By Accessory Add By Accessory Keyed and No Add By Accessory Keyed Add By Accessory Keyed Add By Accessory Keyed Add By Accessory Add	Contact Type	Tab
Aechanical Attachment       No         Terminal Position Assurance       No         Strain Relief       Add By Accessory         Mating Alignment Type       Keyed         Mating Alignment Type       Cable Mount (Free- tousing Features         Housing Material       PBT GF         Centerline (Pitch)       4 mm[.157 in]         Dimensions       27.6 mm[1.852 in]         Product Width       19 mm[.748 in]         Product Length       27.6 mm[1.852 in]         Operating Temperature (Max)       140 °C[284 °F]         Operating Temperature (Max)       140 °C[284 °F]         Operating Temperature (Max)       Power         Operation/Application       20.5 mm[1.852 m]         Circuit Application       Power         Operation (Application       Power         Operating Protection       IP67         <	hment	Mating Tab Width	1.6 mm[.063 in]
Terminal Position AssuranceNoStrain ReliefAdd By AccessoryMating Alignment TypeKeyedMating Alignment TypeWithConnector Mounting TypeCable Mount (Free-cousing FeaturesPBT GFHousing MaterialPBT GFCenterline (Pitch)4 mm[.157 in]Dimensions9Connector Height19 mm[.748 in]Product Length47.05 mm[1.852 in]Product Length27.6 mm[1.087 in]Sage Conditions40 °C[284 °F]Operating Temperature (Max)40 °C[284 °F]Operating Temperature Range40 - 140 °C[-40 - 28Operating Temperature RangePowerclustry StandardsPowerPlagree of ProtectionIP67UL Flammability RatingUL 94V-0	Assurance         No           Add By Accessory         Add By Accessory           ant Type         Keyed           mting Type         Cable Mount (Free-Hanging)           al         PBT GF           al         PBT GF           a)         Hum.157 in]           approximation         19 mm[.748 in]           a)         19 mm[.748 in]           a)         27.6 mm[1.087 in]           a)         19 mm[.748 in]           a)         100 mm[.748 in]           a)         100 mm[.748 in]           a)         100 mm[.087 in]           a)         100 mm[.081 mm]	Contact Current Rating (Max)	20 A
Strain ReliefAdd By AccessoryMating Alignment TypeKeyedMating AlignmentWithConnector Mounting TypeCable Mount (Free-Kousing FeaturesPBT GFHousing MaterialPBT GFCenterline (Pitch)4 mm(.157 in]Dimensions19 mm[.748 in]Product Height19 mm[.748 in]Product Length27.6 mm(1.087 in]Sage Conditions140 °C[284 °F]Operating Temperature (Max)140 °C[284 °F]Operating Temperature Range-40 -140 °C[-40 - 28Operating Temperature RangePowerCircuit ApplicationPowerCircuit ApplicationPowerDegree of ProtectionIP67U. Flammability RatingU1 94V-0	Add By Accessory Add By Accessory Add By Accessory Add By Accessory Aspectation Appendix Accessory Acc	Mechanical Attachment	
Mating Alignment TypeKeyedMating AlignmentWithConnector Mounting TypeCable Mount (Free-Housing FeaturesPBT GFCenterline (Pitch)4 mm[.157 in]Dimensions19 mm[.748 in]Product Height19 mm[.748 in]Product Length27.6 mm[1.087 in]Bage Conditions140 °C[284 °F]Operating Temperature (Max)140 °C[244 °F]Operating Temperature Range-40 - 140 °C[-40 - 28Operating Temperature RangePowerCircuit ApplicationPowerDegree of ProtectionIP67UL Flammability RatingUL 94V-0	And TypeKeyedentWithnting TypeCable Mount (Free-Hanging)aDBT GFalPBT GFnh19 mm[.748 in]apht19 mm[.748 in]apht19 mm[.748 in]a27.6 mm[1.087 in]s27.6 mm[1.087 in]ssationPowerationPowerssssationPowerssssssssationPowersss </td <td>Terminal Position Assurance</td> <td>No</td>	Terminal Position Assurance	No
Mating AlignmentWithConnector Mounting TypeCable Mount (Free-clousing FeaturesPBT GFHousing MaterialPBT GFCenterline (Pitch)4 mm[.157 in]Dimensions19 mm[.748 in]Product Width4.05 mm[1.852 in]Product Length27.6 mm[1.087 in]Bage Conditions140 °C[284 °F]Operating Temperature (Max)140 °C[284 °F]Operating Temperature Range-40 - 140 °C[-40 - 28Operating Temperature RangePowerCircuit ApplicationPowerDegree of ProtectionIP67UL Flammability RatingUL 94V-0	ant ng Type Galaxies with and the set of the	Strain Relief	Add By Accessory
Connector Mounting TypeCable Mount (Free-Iousing FeaturesPBT GFHousing MaterialPBT GFCenterline (Pitch)4 mm[.157 in]Dimensions19 mm[.748 in]Connector Height19 mm[.748 in]Product Width47.05 mm[1.852 in]Product Length27.6 mm[1.087 in]Isage Conditions140 °C[284 °F]Operating Temperature (Max)140 °C[284 °F]Operating Temperature Range-40 - 140 °C[-40 - 28Operatiny Temperature RangePowerCircuit ApplicationPowerDegree of ProtectionIP67UL Flammability RatingUL 94V-0	nting Type Cable Mount (Free-Hanging) Cable Mount (Free-Hanging) PBT GF PBT GF PBT GF PPT ATTEND PP	Mating Alignment Type	Keyed
Aousing Features Housing Material PBT GF Centerline (Pitch) 4 mm[.157 in] Centerline (Pitch) 19 mm[.748 in] Connector Height 19 mm[.748 in] Product Width 47.05 mm[1.852 in] Product Width 47.05 mm[1.852 in] Product Length 27.6 mm[1.087 in] Bage Conditions Coperating Temperature (Max) 140 °C[284 °F] Operating Temperature Range -40 - 140 °C[240 - 28 Operation/Application Circuit Application Power Circuit Application Power Circuit Application Power Colustry Standards Degree of Protection Pofa	ai       PBT GF         ai       mm[.157 in]         ai       19 mm[.748 in]         a)       19 mm[.748 in]         a)       47.05 mm[1.852 in]         a)       27.6 mm[1.087 in]         b)       27.6 mm[1.087 in]         b)       40 °C[284 °F]         c)       40 °C[240 - 284 °F]         c)       40 °C[240 - 284 °F]         c)       40 °C[240 - 284 °F]         c)       c)	Mating Alignment	With
Housing MaterialPBT GFCenterline (Pitch)4 mm[.157 in]Dimensions19 mm[.748 in]Connector Height19 mm[.748 in]Product Width47.05 mm[1.852 in]Product Length27.6 mm[1.087 in]Product Length140 °C[284 °F]Operating Temperature (Max)140 °C[284 °F]Operating Temperature Range-40 - 140 °C[-40 - 28Operating Temperature RangePowerCircuit ApplicationPowerDegree of ProtectionIP67UL Flammability RatingUL 94V-0	a       PBT GF         h       mm[.157 in]         h       mm[.157 in]         h       19 mm[.748 in]         h       4.05 mm[1.852 in]         h       2.05 mm[1.087 in]         h       2.05 mm[1.087 in]         h       140 °C[284 °F]         h       -40 - 140 °C[-40 - 284 °F]         h	Connector Mounting Type	Cable Mount (Free-Hanging)
Centerline (Pitch)4 mm[.157 in]Connector Height19 mm[.748 in]Product Width47.05 mm[1.852 in]Product Length27.6 mm[1.087 in]Product Length27.6 mm[1.087 in]Bage Conditions140 °C[284 °F]Operating Temperature (Max)140 °C[284 °F]Operating Temperature Range-40 - 140 °C[-40 - 28Operating Temperature RangePowerCircuit ApplicationPowerCircuit ApplicationPowerDegree of ProtectionIP67UL Flammability RatingUL 94V-0	h) h m[.157 in] h m[.157 in] h m[.152 in] h m[.1852 in] h m[.1852 in] h m[.1852 in] h m[.1852 in] h m[.1852 in] h m m[.1852 in] h m m[.185 in] h m	Housing Features	
DimensionsConnector Height19 mm[.748 in]Product Width47.05 mm[1.852 in]Product Length27.6 mm[1.087 in]Bage Conditions27.6 mm[1.087 in]Operating Temperature (Max)140 °C[284 °F]Operating Temperature Range-40 - 140 °C[-40 - 28Operating Temperature Range-40 - 140 °C[-40 - 28Operation/ApplicationPowerCircuit ApplicationPowerIndustry StandardsIP67UL Flammability RatingUL 94V-0	ht ( العالية) ( ا العالية) ( العالية)	Housing Material	PBT GF
Connector Height19 mm[.748 in]Product Width47.05 mm[1.852 in]Product Length27.6 mm[1.087 in]Jage Conditions140 °C[284 °F]Operating Temperature (Max)140 °C[284 °F]Operating Temperature Range-40 - 140 °C[-40 - 28Operation/Application-40 - 140 °C[-40 - 28Operation/ApplicationPowerCircuit ApplicationPowerDegree of ProtectionIP67UL Flammability RatingUL 94V-0	4.05 mm[1.852 in] 27.6 mm[1.087 in] s s perature (Max) 140 °C[284 °F] perature Range 40 - 140 °C[-40 - 284 °F] tertion 2007 s tertion 2007 s s tertion 2007 s tertion 2007 tertion 2007 te	Centerline (Pitch)	4 mm[.157 in]
Product Width 47.05 mm[1.852 in] Product Length 27.6 mm[1.087 in] Isage Conditions 140 °C[284 °F] Operating Temperature (Max) 140 °C[284 °F] Operating Temperature Range -40 - 140 °C[-40 - 28 Operation/Application 40 - 140 °C[-40 - 28 Operation/Application Power Circuit Application Power Industry Standards 140 Degree of Protection IP67	4.05 mm[1.852 in] 27.6 mm[1.087 in] s s perature (Max) 140 °C[284 °F] perature Range 40 - 140 °C[-40 - 284 °F] tertion 2007 s tertion 2007 s s tertion 2007 s tertion 2007 tertion 2007 te	Dimensions	
Product Length 27.6 mm[1.087 in] Asage Conditions Operating Temperature (Max) 140 °C[284 °F] Operating Temperature Range -40 - 140 °C[-40 - 28 Operation/Application -40 - 140 °C[-40 - 28 Operation/Application Power Circuit Application Power Degree of Protection IP67 UL Flammability Rating UL 94V-0	27.6 mm[1.087 in] s perature (Max) 140 °C[284 °F] .40 - 140 °C[-40 - 284 °F] .tor .to	Connector Height	19 mm[.748 in]
Asage Conditions Operating Temperature (Max) 140 °C[284 °F] Operating Temperature Range -40 - 140 °C[-40 - 28 Operation/Application Circuit Application Power Adustry Standards Degree of Protection Pof UL Flammability Rating UL 94V-0	s perature (Max) 140 °C[284 °F] -40 - 140 °C[-40 - 284 °F] -40 - 140 °C[-40 - 284 °F] -40 - 140 °C[-40 - 284 °F] -40 - 284 °F] -50 - 284 °F] -	Product Width	47.05 mm[1.852 in]
Operating Temperature (Max)140 °C[284 °F]Operating Temperature Range-40 - 140 °C[-40 - 28Operation/ApplicationPowerCircuit ApplicationPowerObegree of ProtectionIP67UL Flammability RatingUL 94V-0	perature (Max) 140 °C[284 °F] -40 - 140 °C[-40 - 284 °F] -ation Power - A - 140 °C[-40 - 284 °F] - A - 140 °F] - A - 140 °C[-40 - 284 °F] - A - 140 °F] - A	Product Length	27.6 mm[1.087 in]
Operating Temperature Range-40 - 140 °C[-40 - 28Operation/ApplicationPowerCircuit ApplicationPowerodustry StandardsVDegree of ProtectionIP67UL Flammability RatingUL 94V-0	Perature Range -40 - 140 °C[-40 - 284 °F] cation Power lon Power loc - 100 °C[-40 - 284 °F] Power Powe	Usage Conditions	
Operation/Application   Circuit Application   Outstry Standards   Degree of Protection   UL Flammability Rating	tation Power section Power section IP67 Rating UL 94V-0 sections IL 94V-0 section IL 94V-0	Operating Temperature (Max)	140 °C[284 °F]
Circuit ApplicationPowerdustry StandardsIP67Degree of ProtectionUL 94V-0	ion Power station Power ection IP67 Ataing UL 94V-0 stations Intimum 1	Operating Temperature Range	-40 - 140 °C[-40 - 284 °F]
Adustry Standards         Degree of Protection       IP67         UL Flammability Rating       UL 94V-0	ds bection IP67 Rating UL 94V-0 res ntity 1	Operation/Application	
Degree of ProtectionIP67UL Flammability RatingUL 94V-0	ection IP67 Rating UL 94V-0 res ntity 1	Circuit Application	Power
UL Flammability Rating UL 94V-0	r Rating UL 94V-0 Tes 1 Intity 1	Industry Standards	
	res 1	Degree of Protection	IP67
ackaging Features	ntity 1	UL Flammability Rating	UL 94V-0
		Packaging Features	
Packaging Quantity 1	nod Carton	Packaging Quantity	1
Packaging Method Carton		Packaging Method	Carton

**C** For support call +49 6151 607 1999

Housing for Male Terminals, Wire-to-Wire, 3 Position, .157 in [4 mm] Centerline, Sealable, Black, Wire & Cable, Heavy Duty Sealed Connector Series



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: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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**

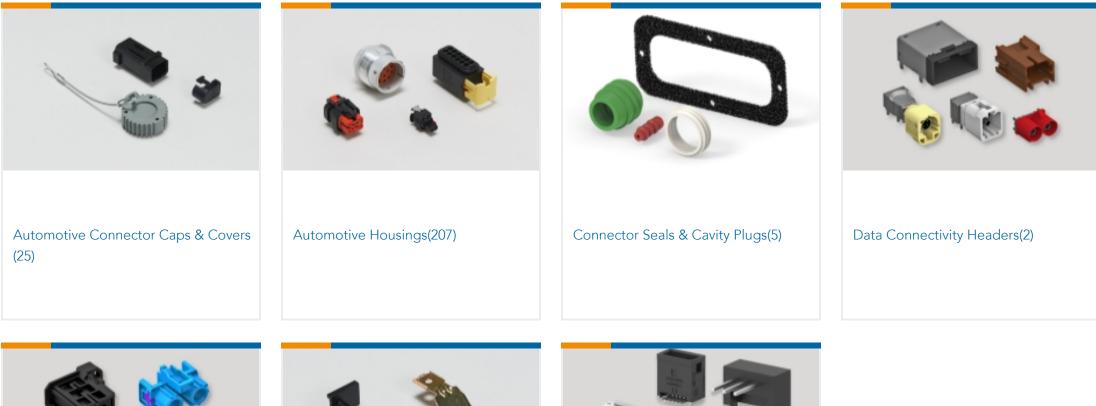


Housing for Male Terminals, Wire-to-Wire, 3 Position, .157 in [4 mm] Centerline, Sealable, Black, Wire & Cable, Heavy Duty Sealed Connector Series



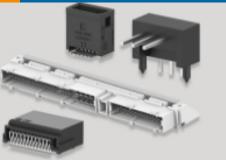


# Also in the Series | Heavy Duty Sealed Connector Series





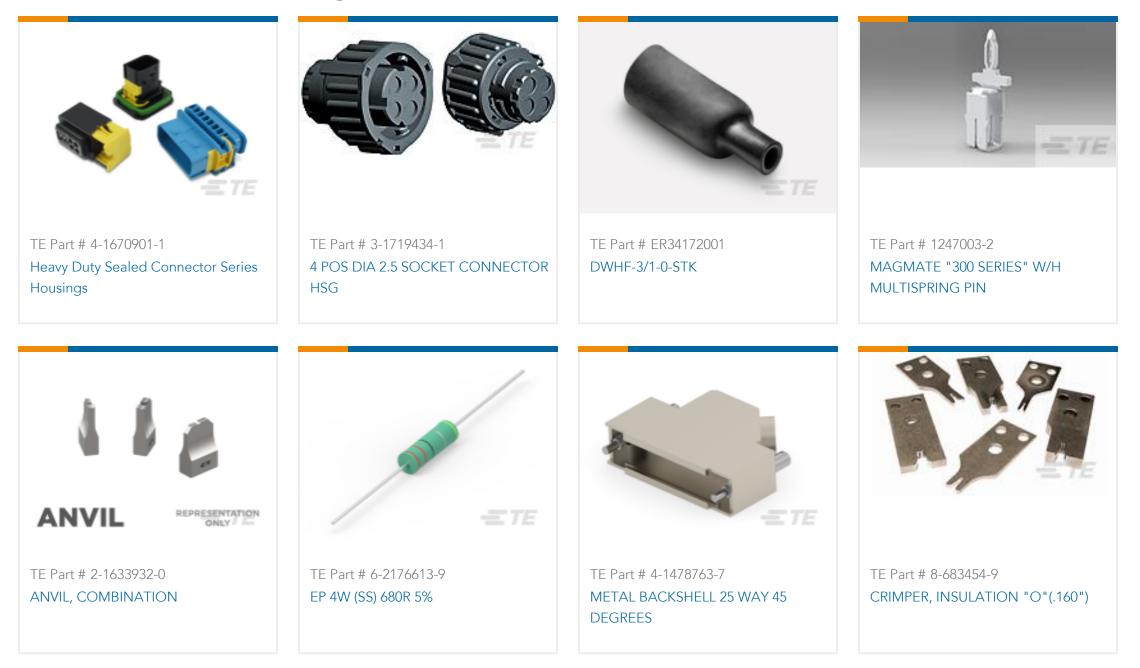




Data Connectivity Housings(16)

Other Automotive Connector Accessories(34) PCB Headers & Receptacles(1)

# Customers Also Bought



Housing for Male Terminals, Wire-to-Wire, 3 Position, .157 in [4 mm] Centerline, Sealable, Black, Wire & Cable, Heavy Duty Sealed Connector Series





## Documents

## Product Drawings 3POS,TAB 1.5X0.63,TAB HSG,ASSY

English

### **CAD** Files

Customer View Model ENG\_CVM\_CVM\_1-1670730-1\_H.2d\_dxf.zip

English

#### 3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-1670730-1\_H.3d\_igs.zip

English

Customer View Model

### ENG\_CVM\_CVM\_1-1670730-1\_H.3d\_stp.zip

English

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

Datasheets & Catalog Pages HDSCS CAN Bus Y-Connector and 120 Resistor Brochure

English

HDSCS Catalog

English

ICT Terminals and Connectors Catalogue

English

CONNECTOR SELECTOR

English

Product Specifications

**Application Specification** 

English