# 2273120-2 - ACTIVE

TE Internal #: 2273120-2 M12 Cable Assembly, 3 Position, .6 m, Sensor/Actuator, Code A, M12 Plug, M12 Socket, Double Ended, Plastic View on TE.com >



Cable Assemblies > Copper Cable Assemblies > M8/M12 Cable Assemblies > M12 MR-FS Double End Cable Assembly BL



### M8/M12 Application Type: Sensor/Actuator

Number of Positions: 3

Connector & Keying Code: A

Connector Type (End A): M12 Plug

Connector Type (End B): M12 Socket

### All M12 MR-FS Double End Cable Assembly BL (15)

### Features

### Product Type Features

Connector Type (End A)

Connector Type (End B)

M12 Plug

M12 Socket

Cable Assembly Type	M12
Configuration Features	
Number of Positions	3
Electrical Characteristics	
Operating Voltage	250 VAC
Body Features	
Cable Color	Black
Connector Color (End B)	Black
Connector Color (End A)	Black
Jacket Material	PUR
Wire Color (Base)	Brown, Blue, Black
Connector & Keying Code	A
Contact Features	
Contact Current Rating (Max)	4 A
Mechanical Attachment	

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### 2273120-2

M12 Cable Assembly, 3 Position, .6 m, Sensor/Actuator, Code A, M12 Plug, M12 Socket, Double Ended, Plastic



Housing Material       Plastic         Housing Material       Plastic         Dimensions       4.3 mm[161 in]         Outside Cable Diameter       4.3 mm[161 in]         Wire Size       .326 mm²         Jage Conditions       .326 mm²         Jege Conditions       .40 – 80 °C[40 – 176 °F]         Operating Temperature Range       .40 – 80 °C[40 – 176 °F]         Page Condition Type       Sensor/Actuator         M8/M12 Application Type       Sensor/Actuator         Shielded       No         Packaging Features		
Connector Orientation (End B)StraightIousing MaterialPlasticIousing MaterialPlasticDuration226 mm?Outside Cable Diameter4.3 mm(141 in]Wire Size326 mm?Jage Conditions240 m 80 °C[-40 - 176 °F]Operating Temperature Range40 - 80 °C[-40 - 176 °F]Operating Temperature RangeSensor/ActuatorParticity/ApplicationNoParticity/Application TypeSensor/ActuatorShieldedNoParticity/Application TypeBoxParticity/Application TypeBoxParticity/Application TypeSensor/ActuatorShieldedNoParticitySensor/ActuatorShieldedSonsor/ActuatorShieldedSensor/ActuatorParticitySensor/ActuatorShieldedNoParticitySensor/ActuatorParticitySensor/ActuatorShieldedSensor/ActuatorParticitySensor/ActuatorParticitySensor/ActuatorCable Assembly LengthSensor/ActuatorCable Assembly ConfigurationDouble EndedParticitySensor/Actuator No 32, 2016FUT UP Directive 2000/SAPCCompliantChina Roll S 2 Directive MIT Order No 32, 2016CompliantEU RACH Regulation (EC) No 1997/2006Compliant Ecol Contant REACH SVHCParticitySensor Contant REACH SVHCSensor Contant REACH SVHCFullogen ContentSensor Contant REACH SVHCParticitySensor Contant REACH SVHC	Thread Size	M12 x M12
Housing Material Plastic Housing Material Plastic Contrained Cable Diameter 4.3 mm[.161 in] Wire Size 3.120 mm <sup>2</sup> Jage Conditions Jage Conditions Jage Conditions Contraining Temperature Range 4.0 & 00 °C[ 40 176 °F] Operation/Application Type Shielded 4.0 & 00 °C[ 40 176 °F] Ma/M12 Application Type 5.0 Sensor/Actuetor Ma/M12 Application 5.0 Sensor/Actuetor Ma/M12 Application Sensor Ma/M12 Application 5.0 Sensor/Actuetor Ma/M12 Application 5.0 Sensor/Actuetor Ma/M12 Application 5.0 Sensor/Actuetor Ma/M12 Application 5.0 Sensor Ma/M12 Application 5.0 Senso	Connector Orientation (End A)	Right Angle
Housing Material       Plastic         Dimensions       4.3 mm[161 in]         Wire Size       .326 mm²         Jage Conditions       .326 mm²         Operating Temperature Range       -40 – 80 °C(40 – 176 °F)         Operatin/Application       Sensor/Actuator         Shielded       No         Adding Features       Sensor/Actuator         Packaging Method       Box         Date       Shielded         Yeek       State         Cable Assembly Length       Ken         Cable Assembly Configuration       Boable Ended         Product Compliance       Compliant         FU RoHS Directive 2000/SD/EC       Compliant         Char RoHS 2 Directive 2000/SD/EC       Compliant         EU REACH Regulation (EC) No. 1907/2006       Current ECHA Cancidate List JUNE 2023 (73) Cancidate List Declared Against: JAN 2022 (72) Des not contain REACH SVHC         Halogen Centent       Low Halogen Br, CI, F, I < 8000 ppm per (homogenous material, Also BHR/CTR/PVC) Free	Connector Orientation (End B)	Straight
DimensionsOutside Cable Dismeter4.3 mm (161 im)Wire Size.326 mm?Jage Conditions	Housing Features	
Outside Cable Diameter4.3 mm[.161 in]Wire Size.326 mm²Jage Conditions.40 – 80 °C[-40 – 176 °F]Operating Temperature Range.40 – 80 °C[-40 – 176 °F]Operation/ApplicationSensor/ActuatorM8/M12 Application TypeSensor/ActuatorShieldedNoPackaging Features	Housing Material	Plastic
Wire Size.326 mm²Jage Conditions40 – 80 °C[-40 – 176 °F]Operating Temperature Range40 – 80 °C[-40 – 176 °F]Operation/ApplicationSensor/ActuatorM8/M12 Application TypeSensor/ActuatorShieldedNoPackaging FeaturesSensor/ActuatorPackaging MethodBoxOtherSensor/ActuatorField ServiceableYesCable Assembly Length.6 mCable Assembly ConfigurationDouble EndedPackaging Netrice ServiceableCompliantCable Assembly ConfigurationCompliantCable Assembly ConfigurationCompliantColl ELV Directive 2010/65/EUCompliantEU RoHS Directive 2010/65/EUCompliantChina RoHS 2 Directive MIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List JUNE 2022 (225) Candidate List Declared Against: JAN 2022 (225) Candidate List Declared Against: JAN 2022 (225) Does not contain REACH SWHCHalogen ContentLow Halogen - Br, CJ, F, L < 900 ppm per homogenous material. Also BERK/CFR/PVC Iree	Dimensions	
Deparating Temperature Range       -10 - 80 °C[-10 - 176 °F]         Operation/Application       Sensor/Actuator         Packaging Application Type       Sensor/Actuator         Shielded       No         ackaging Features       Sensor/Actuator         Packaging Method       Box         Duber       Sensor/Actuator         Field Serviceable       Yes         Cable Assembly Length       -6 m         Cable Assembly Configuration       Double Ended         Forduct Compliance       Sensor/Actuator         Forduct Compliance Assembly Configuration       Compliant         FU FU Directive 2011/65/EU       Compliant         FU FU Directive 2000/53/FC       Songliant         EU RACH Regulation (EC) No. 1907/2006       Current ECHA Candidate List: JUNE 2023 Capidiate List Declared Against: JAN 2022 Capidiate List Declared Against: JAN 2022 Capi	Outside Cable Diameter	4.3 mm[.161 in]
Operating Temperature Range4080 °C[ 40176 °F]Operating Temperature Range4080 °C[ 40176 °F]Operation/ApplicationSensor/ActuatorM8/M12 Application TypeSensor/ActuatorShieldedNoPackaging FeaturesPackaging MethodBoxPackaging MethodBoxOtherCable Assembly LengthK mCable Assembly LengthOuble EndedCable Assembly ConfigurationDouble EndedProduct ComplianceCompliantFur CHS Directive 2011/65/EUCompliantEU RoHS Directive 2011/65/EUCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JUNE 2023 (223) Candidate List Declared Against: JAN 2022 (223) Does not contain RFACH SVHCHalogen ContentLow Halogen -Br, CJ, F, I < 900 ppm per hornogenous material. Also BER/CFR/PVC Free	Wire Size	.326 mm <sup>2</sup>
Persition/Application       Sensor/Actuator         M8/M12 Application Type       Sensor/Actuator         Shielded       No         Packaging Features       Field Serviceable         Packaging Method       Box         Deter       Field Serviceable         Field Serviceable       Yes         Cable Assembly Length       .6 m         Cable Assembly Configuration       Double Ended         Product Compliance       Compliant         FU RoHS 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 2023 (235) Candidate List Declared Against: JAN 2022 (235) Candidate List Declared Against: JAN 2022 (235)         Halogen Content       Iow Halogen - Br, CI, F, I < 900 ppm per horoogenous material. Also BER/CER/PKVC	Usage Conditions	
M8/M12 Application Type Sensor/Actuator Shielded No Packaging Features Packaging Method Box Coher Field Serviceable Yes Cable Assembly Length Compliant Cable Assembly Configuration Compliant EU ROHS Directive 2010/65/EU CULV Directive 2010/65/EU CULV Directive 2010/65/EU CULV Directive 2010/53/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 2023 (25) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHC Halogen Content Low Halogen - Br, CI, F, I < 900 ppm per homogenous material. Also BFR/CF/R/PVC Free	Operating Temperature Range	-40 – 80 °C[-40 – 176 °F]
ShieldedNoShieldedNoSackaging FeaturesBoxPackaging MethodBoxDeterImage: State	Operation/Application	
Ackaging FeaturesBoxPackaging MethodBoxDeterField ServiceableField ServiceableYesCable Assembly Length.6 mCable Assembly ConfigurationDouble EndedComplianceSubsection (Serviceable)For compliance documentation, visit the product page on TE.com>Could LD Directive 2011/65/EUCompliantEU ROHS Directive 2011/65/EUCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (FC) No. 1907/2006Current FCHA Candidate List. JUNE 2023 (235) Candidate List Declared Against: JAN 2022 (235) Direction contain REACH SYNCHalogen ContentLow Halogen -Br, CJ, L, S 900 ppm per homogenous material, Also BER/CR/PRVP Ker	M8/M12 Application Type	Sensor/Actuator
Packaging MethodBoxPackaging MethodBoxCherYesField ServiceableYesCable Assembly Length.6 mCable Assembly ConfigurationDouble EndedProduct ComplianceComplianceFor compliance documentation, visit the product page on TEcom>CompliantEU RoHS Directive 2011/65/EUCompliantEU RoHS 2 Directive 2010/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, CI, F, I < 900 ppm per homogenous material. Also BFR/CFR/Pvc Free	Shielded	No
Deter         Field Serviceable       Yes         Cable Assembly Length       .6 m         Cable Assembly Configuration       Double Ended         Product Compliance       Substance         For compliance       Compliant         EU RoHS Directive 2011/65/EU       Compliant         EU RoHS Directive 2011/65/EU       Compliant         EU RoHS 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 2023 (235) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHC         Halogen Content       Low Halogen - Br, CJ, F, I < 900 ppm per homogenous material. Also BER/CFR/PVC Free	Packaging Features	
Field ServiceableYesCable Assembly Length.6 mCable Assembly ConfigurationDouble EndedComplianceSubsembly ComplianceFor compliance documentation, visit the product page on TE.comCompliantEU RoHS Directive 2011/65/EUCompliantEU RoHS Directive 2000/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, CJ, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC homogenous material. Also BFR/CFR/PVC homogenous material. Also BFR/CFR/PVC	Packaging Method	Box
Cable Assembly Length.6 mCable Assembly ConfigurationDouble EndedCoduct Compliance For compliance documentation, visit the product page on TE.com>CompliantEU RoHS Directive 2011/65/EUCompliantEU RoHS Directive 2000/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JAN 2022 (235) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, CI, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free	Other	
Cable Assembly ConfigurationDouble EndedProduct Compliance for compliance documentation, visit the product page on TE.com>CompliantEU RoHS Directive 2011/65/EUCompliantEU RoHS Directive 2000/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, CI, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free	Field Serviceable	Yes
Product ComplianceFor compliance documentation, visit the product page on TE.com>EU RoHS Directive 2011/65/EUCompliantEU ELV Directive 2000/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free	Cable Assembly Length	.6 m
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 2023 (235) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHC   Halogen Content Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free	Cable Assembly Configuration	Double Ended
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EU REACH Regulation (EC) No. 1907/2006       Current ECHA Candidate List: JUNE 2023 (235)         Candidate List Declared Against: JAN 2022 (223)         Does not contain REACH SVHC         Halogen Content         Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free	EU ELV Directive 2000/53/EC	Compliant
(235) Candidate List Declared Against: JAN 2022 (223) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free	China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
homogenous material. Also BFR/CFR/PVC Free	EU REACH Regulation (EC) No. 1907/2006	(235) Candidate List Declared Against: JAN 2022 (223)
Solder Process Capability Not applicable for solder process capability	Halogen Content	homogenous material. Also BFR/CFR/PVC
	Solder Process Capability	Not applicable for solder process capability

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### 2273120-2

M12 Cable Assembly, 3 Position, .6 m, Sensor/Actuator, Code A, M12 Plug, M12 Socket, Double Ended, Plastic



#### 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-onreach

# **Compatible Parts**



## **Customers Also Bought**







### **Documents**

**Product Drawings** M12 angled plug to M12 strgt socket AA

English

### 2273120-2

M12 Cable Assembly, 3 Position, .6 m, Sensor/Actuator, Code A, M12 Plug, M12 Socket, Double Ended, Plastic



#### **CAD** Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2273120-2\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2273120-2\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2273120-2\_A.3d\_stp.zip

English

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

Datasheets & Catalog Pages M8 / M12 Connector System Catalog English M8 / M12 Connector System Catalog Japanese

Product Specifications Product Specification

English