Connecting cable NEBA-M8G3-U-2.5-N-LE3 Part number: 8078223



General operating condition

Data sheet

Feature	Value
Conforms to standard	EN 61076-2-104 EN 61984
Certification	c UL us - Listed (OL)
Intended use	The connecting cable connects field devices (sensors, actuators) with controllers.
Certificate issuing authority	UL E253748
Cable designation	Without label holder
Contact durability	100
Product weight	50 g
Application note	Meets the requirements of IEC 61010-1 and 61010-2-202, in particular for electrically operated valves from Festo. Only energy-limited circuits with a maximum current of 4 A at a max. open circuit voltage of 30 VDC are permitted to be used for supplying electrically actuated valves from Festo.
Electrical connection 1, function	Field device end
Electrical connection 1, design	Round
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Straight
Electrical connection 1, connection technology	M8x1 A-coded as per EN 61076-2-104
Electrical connection 1, number of pins/wires	3
Electrical connection 1, occupied pins/wires	3
Electrical connection 1, type of mounting	Screw-type lock with hexagon AF 9 and longitudinal knurl rotatable
Electrical connection 1, type of mounting	Compatible with rotatable/non-rotatable screw lock
Electrical connection for input 1, connection pattern	00991871
Electrical connection 1, terminal allocation	Pin 1 = BN Pin 3 = BU Pin 4 = BK
Electrical connection 1, display	without
Electrical connection 2, function	Control side
Electrical connection 2, connection type	Cable
Electrical connection 2, connection technology	Open end
Electrical connection 2, number of pins/wires	3
Electrical connection 2, occupied pins/wires	3
Electrical connection 2, terminal allocation	Pin 1 = BN Pin 3 = BU Pin 4 = BK
Electrical connection 2, display	without
DC operating voltage range	0 V 60 V

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Operating voltage range AC OV 48 V Note on operating voltage range AC O-30 V for UL applications Carent rating at QF OC A A Surge resistance 1.5 kV Cable length 2.5 m Cable characteristic Suitable for enrogy chains/rebot applications abroaton-resistant low adhesion Cannector cable test conditions Test conditions on request Torsional resistance? Connector cable test conditions Test conditions on request Torsional resistance? Note on connector cable test conditions tested at 2.9 °C Bending radius, fixed cable installation s3 mm Cable density 3.0 25 mm² Bending radius, fixed cable installation s3 mm Cable density 3.0 25 mm² Wrie ends Cur off Humity Degree of protection IP65 PROF 4.0 \$ 50 °C for UL applications Special features UV-resistant Notice on connector with flexible cable installation s2 mm² Special features UV-resistant Wrie ends Cur off Humity Degree of protection IP68 PROF	Feature	Value
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Cable length 2.5 m Cable characteristic Suitable for energy chains/robot applications aborsion reductant Income retardant and self-extinguishing Connector cable test conditions Test conditions or request Torsional resistance Torsional resistance Bending radius, fixed cable installation >2 mm Bending radius, fixed cable installation >2 mm Cable dameter 3.8 mm Cable dasign 3.4.0.25 mm² Wrie ends Carl of bluntly Degree of protection IP65 IP65 IP69K Note on degree of protection In mounted state Use on degree of protection In mounted state Use in exterior area Cocators of use with direct outdoor climatic exposure Class D1 based on Cle most stant Conternersistant Cocators of use with direct outdoor climatic exposure Class D1 based on Cle on ambient temperature And "C. as 5 "C Note on ambient temperature Note on andperature with flexble cable installation -20 - 50 "C intt applicati	Surge resistance	1.5 kV
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Storage temperature-25 °C 55 °CNote on storage temperatureshort-term for transport in packaging -40 85 °CRelative air humidityMax. 93% at 40 °CNominal altitude of use above sea level<= 2000 m NHN	Ambient temperature with flexible cable installation	-20 °C 85 °C
Note on storage temperatureshort-term for transport in packaging -40 85 °CRelative air humidityMax. 93% at 40 °CNominal altitude of use above sea level<= 2000 m NHN	Note on ambient temperature with flexible cable installation	-20 - 50 °C for UL applications
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Nominal altitude of use above sea level<= 2000 m NHNOvervoltage categoryIICE marking (see declaration of conformity)As per EU RoHS directiveUKCA marking (see declaration of conformity)To UK RoHS instructionsLABS (PWIS) conformityVDMA24364-B2-LSuitability for the production of Li-ion batteriesMetals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel- plated surfaces, printed circuit boards, cables, electrical plug connectors and coilsCleanroom classClass 4 according to ISO 14644-1Note on materialsCFC-free RoHS-compliant Cadmium-free Halogen-free Free of phosphoric acid esterContamination level3	Note on storage temperature	short-term for transport in packaging -40 85 °C
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RoHS-compliant Cadmium-free Halogen-free Free of phosphoric acid ester Contamination level 3	Cleanroom class	Class 4 according to ISO 14644-1
	Note on materials	CFC-free RoHS-compliant Cadmium-free Halogen-free
Corrosion resistance class (CRC) 1 - Low corrosion stress	Contamination level	3
	Corrosion resistance class (CRC)	1 - Low corrosion stress

Feature	Value
Material of cable sheath	TPE-U(PUR)
Color cable sheath	Gray
Housing material	TPE-U(PUR)
Housing colour	Black
Material of screw-type lock	Die-cast zinc, nickel-plated
Seals material	FPM
Material of pin contacts	Copper alloy, gold-plated
Insulating sheath material	РР