Connecting cable NEBA-M8W4-U-10-N-LE4 Part number: 8078235



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	254 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	Angled
Electrical connection 1, connection technology	M8x1 A-coded as per EN 61076-2-104
Electrical connection 1, number of pins/wires	4
Electrical connection 1, occupied pins/wires	4
Electrical connection 1, type of mounting	Screw-type lock with hexagon AF 9 and longitudinal knurl
Electrical connection 1, terminal allocation	Pin 1 = BN Pin 2 = WH 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	4
Electrical connection 2, occupied pins/wires	4

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Electrical connection 2, terminal allocation Pin 1 = BN Pin 2 = WH Pin 4 = BK Electrical connection 2, display without DC operating voltage range 0 V60 V Note on operating voltage range DC 0 - 30 V for UL applications Operating voltage range AC 0 V68 V Note on operating voltage range AC 0 - 30 V for UL applications Current rating at 40° C 4 A Surge resistance 1.5 kV Cable length 10 m Cable characteristic Suitable for energy chains/robot applications abraison-resistant low adhesion Flame-retardant and self-extinguishing Connector cable test conditions Test conditions on request Torsional resistance: > 300 000 cycles, bending radius 5 mm Energy chains > 5 million cycles, bending radius 28 mm Note on onnector cable test conditions tested at 23 °C Bending radius, fixed cable installation 14 mm Bending radius, fixed cable installation 46 mm Cable design 4 x 0.25 mm² Nominal conductor cors section 0.25 mm² Nominal conductor cross section 0.25 mm² Wire ends Stripped Cut off bluntly Degree of protection IP65	
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Note on degree of protection In mounted state	
Special features UV-resistant hydrolysis resistant Resistant to cooling lubricants Resistant to microbes Oil-resistant Ozone-resistant	
Use in exterior area Locations of use with direct outdoor climatic exposure Class D1 on IEC 60654-1	based
Ambient temperature -40 °C85 °C	
Note on ambient temperature -40 - 50 °C for UL applications Note derating	
Ambient temperature with flexible cable installation -20 °C85 °C	
Note on ambient temperature with flexible cable installation -20 - 50 °C for UL applications	
Storage temperature -25 °C55 °C	
Note on storage temperature short-term for transport in packaging -40 85 °C	
Relative air humidity Max. 93% at 40 °C	
Nominal altitude of use above sea level <= 2000 m NHN	
Overvoltage category II	
CE marking (see declaration of conformity) As per EU RoHS directive	
UKCA marking (see declaration of conformity) To UK RoHS instructions	
LABS (PWIS) conformity VDMA24364-B2-L	
Suitability for the production of Li-ion batteries from use. Exceptions are nickel in steel, chemically nickel-plate surfaces, printed circuit boards, cables, electrical plug connecto coils	
Cleanroom class Class 4 according to ISO 14644-1	d

Feature	Value
Note on materials	CFC-free RoHS-compliant Cadmium-free Halogen-free Free of phosphoric acid ester
Contamination level	3
Corrosion resistance class (CRC)	1 - Low corrosion stress
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