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



Data sheet

Feature	Value
Conforms to standard	EN 61076-2-104 EN 61984
Approval	c UL us listed (OL)
Intended use	Die Verbindungsleitung verbindet Feldgeräte (Sensoren, Aktoren) mit Steuerungen.
Certificate issuing authority	UL E253748
Cable designation	Without inscription label holder
Frequency of connection	100
Product weight	254 g
Instructions on use	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 V DC are permissible for supplying electrically actuated valves from Festo.
Electrical connection 1, function	Field device side
Electrical connection 1, design	Round
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Angled
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	4
Electrical connection 1, used connections/cores	4
Electrical connection 1, type of mounting	Screw-type lock with hexagon A/F 9 mm and longitudinal knurl
Electrical connection 1, terminal allocation	Pin 1 = BN Pin 2 = WH Pin 3 = BU Pin 4 = BK
Electrical connection 1, display	ohne
Electrical connection 2, function	Controller side
Electrical connection 2, connection type	Cable
Electrical connection 2, connector system	Open end
Electrical connection 2, number of connections/cores	4
Electrical connection 2, used connections/cores	4

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Ph 2 = Wit Ph 3 = 6U Ph 4 = 6K Operational voltage range DC 0 v66 V Operational voltage range DC 0 - 30 V for UL applications Operational voltage range DC 0 - 30 V for UL applications Operational voltage range DC 0 - 30 V for UL applications Operational voltage range AC 0 - 30 V for UL applications Career tarting range AF 0 - 30 V for UL applications Career tarting range AF 0 - 30 V for UL applications Cable length 10 m Cable length 10 m Cable length 10 m Cable length 10 m Eact conditions cable Test conditions on request Test conditions cable Test conditions on request Test conditions cable Test conditions on request Cable diameter 4.0 m Cable diameter 4.0 S mm ² Cable diameter 4.0 S mm ² Cable diameter 4.0 S mm ² Note on degree of protection 16% Wire each Ur pristant Note on degree of protection 16% Wire each 16% Condity fully in resistant Note on degree of protection 16% Wire each 2.0 C < S < Cold Note on degree of protection 1	Feature	Value
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Note on operational voltage range AC O - 30 V for UL applications O - 30 V for UL applications O - 30 V for UL applications Current rating at 40° C - 4 A - 30 V for UL applications Current rating at 40° C - 4 A - 5 V - 5 V for UL applications Current rating at 40° C - 4 A - 5 V - 5 V for UL applications	Electrical connection 2, display	ohne
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Operational voltage range AC 0 V & V Note on operational voltage range AC 0 - 30 V for UL applications Carble length 10 m Cable length 10 m Cable characteristic Suitable for energy chains/robot applications Abrasion-resistant Low adhesion Derived and solutions cable Fest conditions on request Test conditions cable Test conditions on request Test conditions cable Test conditions on request Bending faging versions and the solution of the s		0 - 30 V for UL applications
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immunity to surge 1.5 kV Cable length 10 m Cable length 10 m Cable characteristic Suitable for energy chains/robot applications Abrasion-resistant Low adhesion Pame retardant and self extinguishing Test conditions cable Test conditions on request Torsional resistance: > 300,000 cycles, ± 270%(0,1 m) Bending radius resistance: > 300,000 cycles, bending radius 28 mm Notes on test conditions cable 14 mm Bending radius, fixed cable 14 mm Bending radius, moving cable 46 mm Cable dimeter 4,5 mm Cable dimeter 4,0 25 mm² Norte on degree of protection In65 In668 Ip640 <t< td=""><td>Note on operational voltage range AC</td><td>0 - 30 V for UL applications</td></t<>	Note on operational voltage range AC	0 - 30 V for UL applications
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Bending radius, moving cable 46 mm Cable diameter 4.5 mm Cable diameter 4.5 mm ² Nominal cross section conductor 0.25 mm ² Wire ends Sheath removed Cut off bluntly Degree of protection IP65 IP68 IP68 Vote on degree of protection In assembled state Special characteristics UV resistant Hydrolysis-resistant Resistant to coll glubricants Resistant to microbes Oil resistant Ozone-resistant Outdoor applications Application areas with direct exposure to outdoor climatic influences Class D1 based on IEC 60654-1 Ambient temperature 40 °C85 °C Note on ambient temperature -20 °C85 °C Note on arbient temperature -20 °C85 °C Note on storage temperature 20 °C85 °C Note on storage temperature Temporality during transport in packaging -40 85 °C Note on storage temperature 25 °C55 °C Note of use -20 °C85 °C Note of use of use of onformity Max. 93% at 40 °C Overnoltage category I CE mark (see declaration of conformity) In accordance with EU ROHS Directive CE mark (see declaration of conformity) To UK ROHS Instructions	Notes on test conditions cable	Tested at 23 °C
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Nominal cross section conductor 0.25 mm² Wire ends Sheath removed Cut off bluntly Degree of protection IP65 IP68 IP69 Note on degree of protection In assembled state Special characteristics UV resistant Hydrolysis-resistant Resistant to cooling lubricants Resistant on microbes Oil resistant Ozone-resistant Outdoor applications Application areas with direct exposure to outdoor climatic influences Class 01 based on IEC 60654-1 Ambient temperature -40 °C85 °C Note on ambient temperature -20 °C85 °C Note on the ambient temperature with flexible cable installation -20 °C for UL applications Note on the ambient temperature -25 °C C Note on the ambient temperature with flexible cable installation -20 °C85 °C Note on the ambient temperature -25 °C55 °C Note on storage temperature -25 °C	Cable diameter	4.5 mm
Wire ends Sheath removed Cut off bluntly Degree of protection IP65 IP68 IP69K Note on degree of protection In assembled state Special characteristics UV resistant Hydrolysis-resistant Resistant to cooling lubricants Resistant to cooling lubricants Resistant to cooling lubricants Resistant to cooling lubricants Outdoor applications Application areas with direct exposure to outdoor climatic influences Class D1 based on IEC 60654-1 Ambient temperature -40 °C85 °C Note on ambient temperature -40 °C 085 °C Note on the ambient temperature with flexible cable installation -20 °C 085 °C Note on the ambient temperature with flexible cable installation -20 °C 085 °C Note on the ambient temperature -20 °C 055 °C Note on storage temperature -20 °C 0.05 °C for UL applications Storage temperature <20 °C 0.05 °C	Cable structure	4 x 0.25 mm ²
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Note on the ambient temperature with flexible cable installation-20 - 50 °C for UL applicationsStorage temperature-25 °C55 °CNote on storage temperatureTemporarily during transport in packaging -40 85 °CRelative air humidityMax. 93% at 40 °CNominal altitude of use<= 2000 m NHN	Note on ambient temperature	
Storage temperature-25 °C55 °CNote on storage temperatureTemporarily during transport in packaging -40 85 °CRelative air humidityMax. 93% at 40 °CNominal altitude of use<= 2000 m NHN	Ambient temperature with moving cable	-20 °C85 °C
Note on storage temperatureTemporarily during transport in packaging -40 85 °CRelative air humidityMax. 93% at 40 °CNominal altitude of use<= 2000 m NHN	Note on the ambient temperature with flexible cable installation	-20 - 50 °C for UL applications
Relative air humidity Max. 93% at 40 °C Nominal altitude of use <= 2000 m NHN	Storage temperature	-25 °C55 °C
Nominal altitude of use<= 2000 m NHNOvervoltage categoryIICE mark (see declaration of conformity)In accordance with EU RoHS DirectiveCE marking (see declaration of conformity)To UK RoHS instructionsLABS (PWIS) conformityVDMA24364-B2-LSuitability for the production of Li-ion batteriesMetals with more than 1% 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 coils	Note on storage temperature	
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CE marking (see declaration of conformity) To UK RoHS instructions LABS (PWIS) conformity VDMA24364-B2-L Suitability for the production of Li-ion batteries Metals with more than 1% 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 coils	Overvoltage category	
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from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils	LABS (PWIS) conformity	VDMA24364-B2-L
Cleanroom class Class 4 according to ISO 14644-1	Suitability for the production of Li-ion batteries	from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and
	Cleanroom class	Class 4 according to ISO 14644-1

Feature	Value
Note on materials	CFC-free RoHS-compliant Cadmium-free Free of halogen Free of phosphoric acid ester
Pollution degree	3
Corrosion resistance class CRC	1 - Low corrosion stress
Material cable sheath	TPE-U(PUR)
Cable sheath colour	grey
Material housing	TPE-U(PUR)
Housing colour	Black
Material screw-type lock	Die-cast zinc, nickel-plated
Material seals	FPM
Material electrical contact	Gold-plated copper alloy
Material insulating sheath	РР