Connecting cable NEBA-M8G4-U-2.5-N-M12G4 Part number: 8078291

FESTO



Data sheet

Feature	Value
Conforms to standard	EN 61076-2-101 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	77 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	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, design	Round
Electrical connection 2, connection type	Plug
Electrical connection 2, cable outlet	Straight
Electrical connection 2, connection technology	M12x1 A-coded as per EN 61076-2-101
Electrical connection 2, number of pins/wires	4

Electrical connection 2, terminal allocation Pin 1 = BN Pin 2 = WH Pin 3 = BU Pin 4 = BK Electrical connection 2, display DC operating voltage range 0 V60 V	L applications
Electrical connection 2, terminal allocation $ \begin{array}{c} \text{Pin 1} = \text{BN} \\ \text{Pin 2} = \text{WH} \\ \text{Pin 3} = \text{BU} \\ \text{Pin 4} = \text{BK} \\ \end{array} $ $ \text{Electrical connection 2, display} \qquad \text{without} $ $ \text{DC operating voltage range} \qquad \qquad \text{0 V60 V} $	L applications
Pin 2 = WH Pin 3 = BU Pin 4 = BK Electrical connection 2, display without DC operating voltage range 0 V60 V	
DC operating voltage range 0 V60 V	
Note on operating voltage range DC 0 - 30 V for U	
	L applications
Operating voltage range AC 0 V48 V	L applications
Note on operating voltage range AC 0 - 30 V for U	
Current rating at 40° C 4 A	
Surge resistance 1.5 kV	
Cable length 2.5 m	
abrasion-resi low adhesion Flame-retarda Connector cable test conditions Test condition	ant and self-extinguishing ns on request
Bending fatig	stance: > 300 000 cycles, ±270°/0.1 m rue strength: > 50000 cycles, bending radius 5 mm > 5 million cycles, bending radius 28 mm
Note on connector cable test conditions tested at 23 °	PC
Bending radius, fixed cable installation 14 mm	
Bending radius, flexible cable installation 46 mm	
Cable diameter 4.5 mm	
Cable design 4 x 0.25 mm ²	
Nominal conductor cross section 0.25 mm ²	
Degree of protection IP65 IP68 IP69K	
Special features UV-resistant hydrolysis resistant to concentration of the second sec	cooling lubricants nicrobes
Use in exterior area Locations of u on IEC 60654	use with direct outdoor climatic exposure Class D1 based -1
Ambient temperature -40 °C85 °C	
Note on ambient temperature -40 - 50 °C for Note derating	r UL applications 3
Ambient temperature with flexible cable installation -20 °C85 °C	
Note on ambient temperature with flexible cable installation -20 - 50 °C for	r UL applications
Storage temperature -25 °C55 °C	
Note on storage temperature short-term fo	r transport in packaging -40 85 °C
Relative air humidity Max. 93% at	40 °C
Nominal altitude of use above sea level <= 2000 m NH	-IN
Overvoltage category II	
CE marking (see declaration of conformity) As per EU Rol	HS directive
UKCA marking (see declaration of conformity) To UK RoHS in	nstructions
LABS (PWIS) conformity VDMA24364-	B2-L
from use. Exc	nore than 1% copper, zinc or nickel by mass are excluded eptions are nickel in steel, chemically nickel-plated ated circuit boards, cables, electrical plug connectors and
Cleanroom class Class 4 accor	ding to ISO 14644-1

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	PP