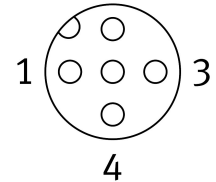


Connecting cable NEBA-M12W5-U-2.5-N-LE3

Part number: 8078245

FESTO



Data sheet

Feature	Value
Conforms to standard	EN 61076-2-101 EN 61984
Certification	c UL us - Listed (OL)
Intended use	The connecting cable connects field devices (sensors, actuators) with controllers.
Explosion prevention and protection	Observe the information on the certificate Zone 2 (ATEX) Zone 22 (ATEX)
Certificate issuing authority	UL E253748
Cable designation	Without label holder
Contact durability	100
Product weight	56 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 side
Electrical connection 1, design	Round
Electrical connection 1, connection type	Socket
Electrical connection 1, cable outlet	Angled
Electrical connection 1, connection technology	M12x1 A-coded as per EN 61076-2-101
Electrical connection 1, number of pins/wires	5
Electrical connection 1, occupied pins/wires	3
Electrical connection 1, type of mounting	Screw-type lock with hexagon AF13 and vertical knurling Rotatable Compatible with rotatable/non-rotatable screw-type lock
Electrical connection 1, terminal allocation	Pin 1 = BN Pin 3 = BU Pin 4 = BK
Electrical connection 1, display	None
Electrical connection 2, function	Control side
Electrical connection 2, connection type	Cable

Feature	Value
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	None
DC operating voltage range	0 V...250 V
Operating voltage range AC	0 V...250 V
Note on operating voltage range AC	0 - 30 V for UL applications
Current rating at 40° C	4 A
Surge resistance	2.5 kV
Cable length	2.5 m
Cable characteristic	suitable for energy chains/robot applications abrasion-resistant Low adhesion Flame-retardant and self-extinguishing
Connector cable test conditions	Test conditions on request Torsion resistance: > 300,000 cycles, ±270°/0.1 m Flexural strength: > 50000 cycles, bending radius 5 mm Energy chain: > 5 million cycles, bending radius 28 mm
Note on connector cable test conditions	tested at 23°C
Bending radius, fixed cable installation	12 mm
Bending radius, flexible cable installation	39 mm
Cable diameter	3.8 mm
Cable design	3 x 0.25 mm ²
Nominal conductor cross section	0.25 mm ²
Wire ends	Stripped Cut off bluntly
Degree of protection	IP65 IP68 IP69K
Special features	UV-resistant Hydrolysis-resistant Cooling lubricant-proof Microbe-resistant Oil-resistant Ozone-resistant
Use in exterior area	Locations of use with direct outdoor climatic exposure Class D1 based on IEC 60654-1
Ambient temperature	-40 °C...85 °C
Note on ambient temperature	-40 ... 50 °C for UL applications
Ambient temperature with flexible cable installation	-20 °C...85 °C
Note on ambient temperature with flexible cable installation	-20 ... 50 °C for UL applications
Storage temperature	-25 °C...55 °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 low voltage directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions To UK instructions for electrical equipment
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 4 according to ISO 14644-1
Note on materials	CFC-free RoHS compliant Cadmium-free

Feature	Value
	Halogen-free Contains no phosphoric acid esters
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	Gold-plated copper alloy
Insulating sheath material	PP