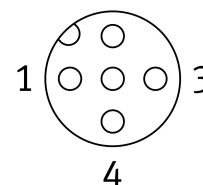


Connecting cable

NEBA-M12W5P-U-2.5-N-LE3

Part number: 8078256

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. |
| 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 end |
| 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 lock |
| Electrical connection 1, terminal allocation | Pin 1 = BN Pin 3 = BU Pin 4 = BK |
| Electrical connection 1, display | Status indicator LED green Switching status indication, yellow LED for PNP N/O contact |
| 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 |

| Feature | Value |
|--|---|
| 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 | 10 V...30 V |
| Current rating at 40° C | 4 A |
| Note on acceptable current load at 40°C | Observe derating |
| Surge resistance | 0.8 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 mm² |
| Nominal conductor cross section | 0.25 mm² |
| Wire ends | Stripped Cut off bluntly |
| Degree of protection | IP65 IP68 IP69K |
| 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 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 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 | Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class | Class 4 according 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 |
| Note on the contamination level | In mounted state |
| 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 |