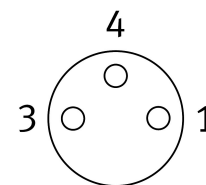


# Connecting cable NEBU-M8G3-R-2.5-LE3

Part number: 569845

FESTO



## Data sheet

| Feature                                        | Value                                                                                                                                                                                |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conforms to standard                           | Wire colors and connection numbers as per EN 60947-5-2<br>EN 61076-2-104                                                                                                             |
| Explosion prevention and protection            | Observe the information on the certificate<br>Zone 2 (ATEX)<br>Zone 22 (ATEX)                                                                                                        |
| Cable designation                              | With 2x label holders                                                                                                                                                                |
| Product weight                                 | 64 g                                                                                                                                                                                 |
| 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  | 3                                                                                                                                                                                    |
| Electrical connection 1, occupied pins/wires   | 3                                                                                                                                                                                    |
| Electrical connection 1, type of mounting      | Screw-type lock                                                                                                                                                                      |
| 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                                                                                                                                                                                    |
| Electrical connection 2, occupied pins/wires   | 3                                                                                                                                                                                    |
| DC operating voltage range                     | 0 V...60 V                                                                                                                                                                           |
| Operating voltage range AC                     | 0 V...60 V                                                                                                                                                                           |
| Current rating at 40° C                        | 3 A                                                                                                                                                                                  |
| Surge resistance                               | 1.5 kV                                                                                                                                                                               |
| Cable length                                   | 2.5 m                                                                                                                                                                                |
| Cable characteristic                           | Suitable for robot applications                                                                                                                                                      |
| Connector cable test conditions                | Flexural strength: as per Festo standard<br>Test conditions on request<br>Torsionsfestigkeit: > 300 000 Zyklen, ±270°/0,1 m<br>Energy chain > 5 million cycles, bending radius 28 mm |
| Bending radius, fixed cable installation       | 12 mm                                                                                                                                                                                |

| Feature                                              | Value                                                                  |
|------------------------------------------------------|------------------------------------------------------------------------|
| Bending radius, flexible cable installation          | 39 mm                                                                  |
| Cable diameter                                       | 3.8 mm                                                                 |
| Cable diameter tolerance                             | ± 0.1 mm                                                               |
| Cable design                                         | 3 x 0.25 mm <sup>2</sup>                                               |
| Nominal conductor cross section                      | 0.25 mm <sup>2</sup>                                                   |
| Degree of protection                                 | IP65<br>IP68<br>IP69K                                                  |
| Note on degree of protection                         | In mounted state                                                       |
| Special features                                     | Oil-resistant                                                          |
| Ambient temperature                                  | -25 °C...80 °C                                                         |
| Ambient temperature with flexible cable installation | -5 °C...80 °C                                                          |
| CE marking (see declaration of conformity)           | As per EU low voltage directive<br>As per EU RoHS directive            |
| UKCA marking (see declaration of conformity)         | To UK RoHS instructions<br>To UK instructions for electrical equipment |
| LABS (PWIS) conformity                               | VDMA24364-B2-L                                                         |
| Note on materials                                    | RoHS-compliant<br>Halogen-free<br>Free of phosphoric acid ester        |
| Contamination level                                  | 3                                                                      |
| Corrosion resistance class (CRC)                     | 2 - Moderate 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                          | Brass, nickel-plated                                                   |
| Seals material                                       | NBR                                                                    |
| Material of pin contacts                             | Copper alloy, gold-plated                                              |
| Insulating sheath material                           | PP                                                                     |