

# Connecting cable NEBU-M8G3-K-1.5-M8G3

Part number: 8003133

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                              | Value                                                                                                                       |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Conforms to standard                                 | Wire colours and connection numbers to EN 60947-5-2<br>EN 61076-2-104                                                       |
| Explosion protection                                 | The information in the certificate must be observed!<br>Zone 2 (ATEX)<br>Zone 22 (ATEX)                                     |
| Cable designation                                    | With 2x inscription label holders                                                                                           |
| Product weight                                       | 45 g                                                                                                                        |
| Electrical connection 1, function                    | Field device side                                                                                                           |
| Electrical connection 1, design                      | Round                                                                                                                       |
| Electrical connection 1, connection type             | Socket                                                                                                                      |
| Electrical connection 1, cable outlet                | Straight                                                                                                                    |
| Electrical connection 1, connector system            | M8x1, A-coded, to EN 61076-2-104                                                                                            |
| Electrical connection 1, number of connections/cores | 3                                                                                                                           |
| Electrical connection 1, used connections/cores      | 3                                                                                                                           |
| Electrical connection 1, type of mounting            | Screw-type lock                                                                                                             |
| Electrical connection 1, connection pattern          | 00991871                                                                                                                    |
| Electrical connection 2, function                    | Controller side                                                                                                             |
| Electrical connection 2, design                      | Round                                                                                                                       |
| Electrical connection 2, connection type             | Plugs                                                                                                                       |
| Electrical connection 2, cable outlet                | Straight                                                                                                                    |
| Electrical connection 2, connector system            | M8x1, A-coded to EN 61076-2-104                                                                                             |
| Electrical connection 2, number of connections/cores | 3                                                                                                                           |
| Electrical connection 2, used connections/cores      | 3                                                                                                                           |
| electrical connection 2, type of mounting            | Screw-type lock                                                                                                             |
| Electrical connection 2, connection pattern          | 00991155                                                                                                                    |
| Operational voltage range DC                         | 0 V ... 60 V                                                                                                                |
| Operational voltage range AC                         | 0 V ... 60 V                                                                                                                |
| Current rating at 40° C                              | 3 A                                                                                                                         |
| Immunity to surge                                    | 1.5 kV                                                                                                                      |
| Cable length                                         | 1.5 m                                                                                                                       |
| Cable characteristic                                 | Standard                                                                                                                    |
| Test conditions cable                                | Bending strength: to Festo standard<br>Test conditions on request<br>Energy chain: > 5 million cycles, bending radius 75 mm |
| Bending radius, fixed cable                          | 12 mm                                                                                                                       |
| Bending radius, moving cable                         | 39 mm                                                                                                                       |
| Cable diameter                                       | 3.8 mm                                                                                                                      |

| Feature                                    | Value                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------|
| Cable diameter tolerance                   | ± 0.1 mm                                                              |
| Cable structure                            | 3 x 0.25 mm <sup>2</sup>                                              |
| Nominal cross section conductor            | 0.25 mm <sup>2</sup>                                                  |
| Degree of protection                       | IP65<br>IP68<br>IP69K                                                 |
| Note on degree of protection               | In assembled state                                                    |
| Special characteristics                    | Oil resistant                                                         |
| Ambient temperature                        | -25 °C ... 70 °C                                                      |
| Ambient temperature with moving cable      | -5 °C ... 70 °C                                                       |
| CE mark (see declaration of conformity)    | To EU Low Voltage Directive<br>In accordance with EU RoHS Directive   |
| CE marking (see declaration of conformity) | To UK RoHS instructions<br>To UK regulations for electrical equipment |
| LABS (PWIS) conformity                     | VDMA24364-B2-L                                                        |
| Note on materials                          | RoHS-compliant<br>Free of halogen<br>Free of phosphoric acid ester    |
| Pollution degree                           | 3                                                                     |
| Corrosion resistance class CRC             | 2 - Moderate corrosion stress                                         |
| Material cable sheath                      | TPE-U(PUR)                                                            |
| Cable sheath colour                        | grey                                                                  |
| Material housing                           | TPE-U(PUR)                                                            |
| Housing colour                             | Black                                                                 |
| Material screw-type lock                   | Nickel-plated brass                                                   |
| Material seals                             | NBR                                                                   |
| Material electrical contact                | Gold-plated copper alloy                                              |
| Material insulating sheath                 | PP                                                                    |