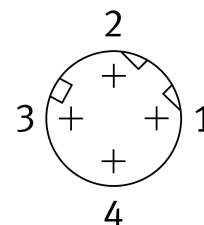


# Connecting cable NEBC-D12G4-ES-10-S-R3G4-ET

Part number: 8040454

**FESTO**



## Data sheet

| Feature                                        | Value                                                                                                                           |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Certification                                  | c UL us - Listed (OL)                                                                                                           |
| Certificate issuing authority                  | UL E520706                                                                                                                      |
| Cable designation                              | With label holder                                                                                                               |
| Contact durability                             | 100<br>750                                                                                                                      |
| Note on contact durability                     | 100 (electrical connection 1)<br>750 (electrical connection 2)                                                                  |
| Product weight                                 | 679.5 g                                                                                                                         |
| Electrical connection 1, function              | Field device side                                                                                                               |
| Electrical connection 1, design                | Round                                                                                                                           |
| Electrical connection 1, connection type       | Plug                                                                                                                            |
| Electrical connection 1, cable outlet          | Straight                                                                                                                        |
| Electrical connection 1, connection technology | M12x1, D-coded as per EN 61076-2-101                                                                                            |
| 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 AF13 and vertical knurling<br>Rotatable<br>Compatible with rotatable/non-rotatable screw-type lock |
| Electrical connection 2, function              | Control side                                                                                                                    |
| Electrical connection 2, design                | Square                                                                                                                          |
| Electrical connection 2, connection type       | Plug                                                                                                                            |
| Electrical connection 2, cable outlet          | Straight                                                                                                                        |
| Electrical connection 2, connection technology | RJ45 as per IEC 60603-7-3                                                                                                       |
| Electrical connection 2, number of pins/wires  | 8                                                                                                                               |
| Electrical connection 2, occupied pins/wires   | 4                                                                                                                               |
| Electrical connection 2, type of mounting      | Snap-locking<br>Compatible with snap-locking                                                                                    |
| DC operating voltage range                     | 0 V...60 V                                                                                                                      |
| Note on operating voltage range DC             | 0 - 30 V for UL applications                                                                                                    |
| Current rating                                 | 1.5 A                                                                                                                           |
| Surge resistance                               | 0.8 kV                                                                                                                          |

| Feature                                              | Value                                                                                                                             |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Shield                                               | Yes                                                                                                                               |
| Transmission characteristics                         | According to category 5, ISO/IEC 11801, class D                                                                                   |
| Cable length                                         | 10 m                                                                                                                              |
| Cable characteristic                                 | Suitable for energy chains                                                                                                        |
| Connector cable test conditions                      | Flexural strength: as per Festo standard<br>Test conditions on request<br>Energy chain: > 2 million cycles, bending radius 100 mm |
| Bending radius, fixed cable installation             | 40 mm                                                                                                                             |
| Bending radius, flexible cable installation          | 100 mm                                                                                                                            |
| Cable diameter                                       | 6.7 mm                                                                                                                            |
| Cable diameter tolerance                             | ± 0.3 mm                                                                                                                          |
| Cable design                                         | 4 x 0.34 mm <sup>2</sup>                                                                                                          |
| Nominal conductor cross section                      | 0.34 mm <sup>2</sup><br>AWG22                                                                                                     |
| Degree of protection                                 | IP20<br>IP65<br>IP67                                                                                                              |
| Note on degree of protection                         | IP20 (electrical connection2)<br>IP65/67 (electrical connection1)<br>In mounted state                                             |
| Special features                                     | Oil-resistant                                                                                                                     |
| Vibration resistance                                 | Test conditions on request                                                                                                        |
| Shock resistance                                     | Test conditions on request                                                                                                        |
| Ambient temperature                                  | -25 °C...80 °C                                                                                                                    |
| Ambient temperature with flexible cable installation | -20 °C...60 °C                                                                                                                    |
| Storage temperature                                  | -25 °C...80 °C                                                                                                                    |
| Relative air humidity                                | 25 - 75%                                                                                                                          |
| 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                                                                                                                    |
| Note on materials                                    | RoHS compliant                                                                                                                    |
| 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                                   | Green                                                                                                                             |
| Housing material                                     | Brass, nickel-plated<br>PA<br>TPE-U(PUR)                                                                                          |
| Housing colour                                       | Black                                                                                                                             |
| Material of screw-type lock                          | Die-cast zinc, nickel-plated                                                                                                      |
| Material of pin contacts                             | Brass<br>Gold-plated                                                                                                              |
| Insulating sheath material                           | Protective grounding                                                                                                              |
| Threaded sleeve material                             | Die-cast zinc                                                                                                                     |