

# Connecting cable NEBC-LE4-ES-5-D12G4-ET

Part number: 8040456

FESTO



 General operating condition

## Data sheet

| Feature                                        | Value                                                                                                                            |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Certification                                  | c UL us - Listed (OL)                                                                                                            |
| Certificate issuing authority                  | UL E474609                                                                                                                       |
| Cable designation                              | With label holder                                                                                                                |
| Contact durability                             | 50                                                                                                                               |
| Product weight                                 | 343 g                                                                                                                            |
| Electrical connection 1, function              | Field device end                                                                                                                 |
| Electrical connection 1, connection type       | Cable                                                                                                                            |
| Electrical connection 1, cable outlet          | Straight                                                                                                                         |
| Electrical connection 1, connection technology | Open end                                                                                                                         |
| Electrical connection 1, number of pins/wires  | 4                                                                                                                                |
| Electrical connection 1, occupied pins/wires   | 4                                                                                                                                |
| Electrical connection 2, function              | Control side                                                                                                                     |
| Electrical connection 2, design                | Round                                                                                                                            |
| Electrical connection 2, connection type       | Plug                                                                                                                             |
| Electrical connection 2, cable outlet          | Straight                                                                                                                         |
| Electrical connection 2, connection technology | M12x1, D-coded as per EN 61076-2-101                                                                                             |
| Electrical connection 2, number of pins/wires  | 4                                                                                                                                |
| Electrical connection 2, occupied pins/wires   | 4                                                                                                                                |
| Electrical connection 2, type of mounting      | Screw-type lock with hexagon AF 13 and longitudinal knurl                                                                        |
| Electrical connection 2, connection pattern    | 00995612                                                                                                                         |
| DC operating voltage range                     | 0 V ... 30 V                                                                                                                     |
| Operating voltage range AC                     | 0 V ... 30 V                                                                                                                     |
| Current rating at 40° C                        | 4 A                                                                                                                              |
| Surge resistance                               | 0.8 kV                                                                                                                           |
| Note on surge resistance                       | A leakage flow of up to 20 mA is permissible due to shielding                                                                    |
| Shield                                         | yes                                                                                                                              |
| Transmission characteristics                   | In accordance with category 5, EN 50173, class D<br>According to category 5, ISO/IEC 11801, class D                              |
| Ethernet cable specification                   | Typ: CAT.5                                                                                                                       |
| Cable length                                   | 5 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                                                                                                                          |

| Feature                                              | Value                        |
|------------------------------------------------------|------------------------------|
| 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>         |
| Nominal conductor cross section                      | AWG22                        |
| Wire ends                                            | Stripped<br>Cut off bluntly  |
| Degree of protection                                 | IP65<br>IP67                 |
| Special features                                     | Oil-resistant                |
| Ambient temperature                                  | -25 °C ... 80 °C             |
| Ambient temperature with flexible cable installation | -20 °C ... 60 °C             |
| Storage temperature                                  | -25 °C ... 80 °C             |
| 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                            |
| Corrosion resistance class (CRC)                     | 1 - Low corrosion stress     |
| Material of cable sheath                             | TPE-U(PUR)                   |
| Color cable sheath                                   | Green                        |
| Housing material                                     | 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                           | PE                           |
| Threaded sleeve material                             | Die-cast zinc                |