

# connecting cable

## NEBC-D12G4-ES-1-S-D12G4-ET

Part number: 8040447

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Cable identification                                 | With inscription label holder  |
| Connection frequency                                 | 50   |
| Product weight                                       | 98.5 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 in accordance with 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 hex A/F 13 mm and longitudinal knurl  |
| Electrical connection 2, function                    | Controller 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 in accordance with 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 hex A/F 13 mm and longitudinal knurl  |
| Operating voltage range DC                           | 0 ... 30 V   |
| Acceptable current load at 40°C                      | 4 A  |
| Surge strength                                       | 0.8 kV   |
| Note on surge resistance                             | Due to screening, a leakage flow of up to 20 mA is permissible.  |
| Transmission properties                              | In accordance with category 5, EN 50173, class D<br>In accordance with category 5, ISO/IEC 11801, class D                            |
| Ethernet cable specification                         | Type: CAT 5  |
| Cable length   | 1 m  |
| Cable attribute                                      | Suitable for energy chains   |
| Test conditions of cable                             | Bending strength according to 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 structure                                      | 4 x 0.34 mm <sup>2</sup> (star quad)   |
| Nominal conductor cross-section                      | 0.34 mm <sup>2</sup>   |
| Nominal conductor cross section (AWG)                | AWG22  |
| Protection class                                     | IP65<br>IP67   |
| Special characteristics                              | Oil resistant  |
| Ambient temperature                                  | -25 ... 80 °C  |
| Ambient temperature with flexible cable installation | -20 ... 60 °C  |
| Storage temperature                                  | -25 ... 80 °C  |
| CE mark (see declaration of conformity)              | in accordance with EU RoHS directive   |
| UKCA marking (see declaration of conformity)         | To UK RoHS instructions  |

| Feature                                 | Value                       |
|---|-----------------------------|
| PWIS conformity                         | VDMA24364-B2-L              |
| Materials note                          | Conforms to RoHS            |
| Degree of contamination                 | 3                           |
| Corrosion resistance classification CRC | 1 - Low corrosion stress    |
| Material cable sheath                   | TPE-U(PUR)                  |
| Cable sheath colour                     | green                       |
| Material housing                        | TPE-U(PUR)                  |
| Housing colour                          | Black                       |
| Material screw-type lock                | Nickel-plated die-cast zinc |
| Material electrical contact             | Brass<br>Gold plated        |
| Material insulation                     | PE                          |
| Material threaded sleeve                | Zinc die-casting            |