

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

Part number: 8040450

FESTO



 General operating condition

## Data sheet

| Feature                                              | Value                                                                                                                        |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Cable designation                                    | With label holder                                                                                                            |
| Frequency of connection                              | 50                                                                                                                           |
| Product weight                                       | 680 g                                                                                                                        |
| Electrical connection 1, function                    | Field device side                                                                                                            |
| Electrical connection 1, design                      | Round                                                                                                                        |
| Electrical connection 1, connection type             | Plugs                                                                                                                        |
| Electrical connection 1, cable outlet                | Straight                                                                                                                     |
| Electrical connection 1, connector system            | M12x1, D-coded to EN 61076-2-101                                                                                             |
| Electrical connection 1, number of connections/cores | 4                                                                                                                            |
| Electrical connection 1, used connections/cores      | 4                                                                                                                            |
| Electrical connection 1, type of mounting            | Screw-type lock with 13 mm hexagon and longitudinal knurl                                                                    |
| Electrical connection 1, connection pattern          | 00995612                                                                                                                     |
| 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            | M12x1, D-coded to EN 61076-2-101                                                                                             |
| Electrical connection 2, number of connections/cores | 4                                                                                                                            |
| Electrical connection 2, used connections/cores      | 4                                                                                                                            |
| electrical connection 2, type of mounting            | Screw-type lock with 13 mm hexagon and longitudinal knurl                                                                    |
| Electrical connection 2, connection pattern          | 00995612                                                                                                                     |
| Operational voltage range DC                         | 0 V ... 30 V                                                                                                                 |
| Current rating at 40° C                              | 4 A                                                                                                                          |
| Immunity to surge                                    | 0.8 kV                                                                                                                       |
| Note on immunity to surge                            | Due to screening, a leakage flow of up to 20 mA is permissible.                                                              |
| Shielding                                            | yes                                                                                                                          |
| Transmission characteristics                         | In accordance with category 5, EN 50173, class D<br>In accordance with category 5, ISO/IEC 11801, class D                    |
| Specification Ethernet cable                         | Type: CAT.5                                                                                                                  |
| Cable length                                         | 10 m                                                                                                                         |
| Cable characteristic                                 | Suitable for energy chains                                                                                                   |
| Test conditions cable                                | Bending strength: to Festo standard<br>Test conditions on request<br>Energy chain: > 2 million cycles, bending radius 100 mm |
| Bending radius, fixed cable                          | ≥40 mm                                                                                                                       |
| Bending radius, moving cable                         | ≥100 mm                                                                                                                      |

| Feature                                    | Value                                |
|--------------------------------------------|--------------------------------------|
| Cable diameter                             | 6.7 mm                               |
| Cable diameter tolerance                   | ± 0.3 mm                             |
| Cable structure                            | 4 x 0.34 mm <sup>2</sup>             |
| Nominal cross section conductor            | 0.34 mm <sup>2</sup>                 |
| Conductor nominal cross section            | AWG22                                |
| Degree of protection                       | IP65<br>IP67                         |
| Special characteristics                    | Oil resistant                        |
| Ambient temperature                        | -25 °C ... 80 °C                     |
| Ambient temperature with moving cable      | -20 °C ... 60 °C                     |
| Storage temperature                        | -25 °C ... 80 °C                     |
| CE mark (see declaration of conformity)    | In accordance with EU RoHS Directive |
| CE marking (see declaration of conformity) | To UK RoHS instructions              |
| LABS (PWIS) conformity                     | VDMA24364-B2-L                       |
| Note on materials                          | RoHS-compliant                       |
| Pollution degree                           | 3                                    |
| Corrosion resistance class 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                   | Die-cast zinc, nickel-plated         |
| Material electrical contact                | Brass<br>Bronze                      |
| Material insulating sheath                 | PE                                   |
| Material threaded sleeve                   | Die-cast zinc                        |