

# Connecting cable NEBC-F12G8-KH-3-N-S-F12G8

Part number: 576636

FESTO



 General operating condition

## Data sheet

| Feature  | Value  |
|--|--|
| Based on standard                                    | Dimensions to EN 61076-2-101                                 |
| Cable designation                                    | Without inscription label holder                             |
| Frequency of connection                              | 100  |
| Product weight                                       | 280 g  |
| Electrical connection 1, function                    | Field device side<br>Controller side                         |
| Electrical connection 1, design                      | Round  |
| Electrical connection 1, connection type             | Hybrid plug  |
| Electrical connection 1, cable outlet                | Straight   |
| Electrical connection 1, connector system            | M12x1, Festo-specific coding                                 |
| Electrical connection 1, number of connections/cores | 8  |
| Electrical connection 1, used connections/cores      | 8  |
| Electrical connection 1, type of mounting            | Screw-type lock, size 14 mm, and longitudinal knurl          |
| Electrical connection 1, connection pattern          | 00997723   |
| Electrical connection 2, function                    | Field device side<br>Controller side                         |
| Electrical connection 2, design                      | Round  |
| Electrical connection 2, connection type             | Hybrid plug  |
| Electrical connection 2, cable outlet                | Straight   |
| Electrical connection 2, connector system            | M12x1, Festo-specific coding                                 |
| Electrical connection 2, number of connections/cores | 8  |
| Electrical connection 2, used connections/cores      | 8  |
| Electrical connection 2, type of mounting            | Screw-type lock, size 14 mm, and longitudinal knurl          |
| Electrical connection 2, connection pattern          | 00997723   |
| Operational voltage range DC                         | 0 V ... 30 V   |
| Current rating at 40° C                              | 7 A  |
| Note on permissible current load at 40°C             | 1.5 A for conductor cross section 0.14 mm <sup>2</sup>       |
| Immunity to surge                                    | 0.8 kV   |
| Cable length   | 3 m  |
| Cable characteristic                                 | Standard   |
| Test conditions cable                                | Test conditions on request                                   |
| Bending radius, fixed cable                          | ≥24 mm   |
| Bending radius, moving cable                         | ≥56 mm   |
| Cable diameter                                       | 8 mm   |
| Cable diameter tolerance                             | ± 0.2 mm   |
| Cable structure                                      | (1 x (4 x 0.14 mm <sup>2</sup> )) + 4 x 0.75 mm <sup>2</sup> |

| <b>Feature</b>                               | <b>Value</b>                         |
|--|--------------------------------------|
| Nominal cross section conductor              | 0.75 mm <sup>2</sup>                 |
| Degree of protection                         | IP65<br>IP67                         |
| 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                      |
| Storage temperature                          | -40 °C ... 70 °C                     |
| CE mark (see declaration of conformity)      | In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions              |
| LABS (PWIS) conformity                       | VDMA24364-B2-L                       |
| Note on materials                            | RoHS-compliant<br>Free of halogen    |
| Pollution degree                             | 3                                    |
| Corrosion resistance class CRC               | 1 - Low corrosion stress             |
| Material cable sheath                        | TPE-U(PUR)                           |
| Cable sheath colour                          | Light grey                           |
| Material housing                             | TPE-U(PUR)                           |
| Housing colour                               | Black                                |
| Material screw-type lock                     | Nickel-plated brass                  |
| Material electrical contact                  | Gold-plated brass                    |
| Material insulating sheath                   | PP                                   |