

# Encoder cable NEBM-M12G8-E-2.5-N-R3G8

Part number: 5212312

FESTO



General operating condition

## Data sheet

| Feature                                              | Value                                                       |
|------------------------------------------------------|-------------------------------------------------------------|
| Cable designation                                    | Without inscription label holder                            |
| Product weight                                       | 200 g                                                       |
| Electrical connection 1, function                    | Field device side                                           |
| Electrical connection 1, design                      | Round                                                       |
| Electrical connection 1, connection type             | Socket                                                      |
| Electrical connection 1, cable outlet                | Straight                                                    |
| Electrical connection 1, connector system            | M12x1, A-coded to EN 61076-2-101                            |
| Electrical connection 1, number of connections/cores | 8                                                           |
| Electrical connection 1, used connections/cores      | 8                                                           |
| Electrical connection 1, connection pattern          | 00992265                                                    |
| Electrical connection 2, function                    | Controller side                                             |
| Electrical connection 2, design                      | Angular                                                     |
| Electrical connection 2, connection type             | Plugs                                                       |
| Electrical connection 2, cable outlet                | Straight                                                    |
| Electrical connection 2, connector system            | RJ45                                                        |
| Electrical connection 2, number of connections/cores | 8                                                           |
| Electrical connection 2, used connections/cores      | 8                                                           |
| Electrical connection 2, connection pattern          | 00995653                                                    |
| Operational voltage range DC                         | 0 V ... 30 V                                                |
| Nominal operating voltage DC                         | 24 V                                                        |
| Operational voltage range AC                         | 0 V ... 30 V                                                |
| Nominal operating voltage AC                         | 24 V                                                        |
| Shielding                                            | yes                                                         |
| Cable length                                         | 2.5 m                                                       |
| Cable characteristic                                 | Suitable for energy chains                                  |
| Bending radius, moving cable                         | ≥48 mm                                                      |
| Cable diameter                                       | 5.8 mm                                                      |
| Cable structure                                      | 1 x 4 x 0.15 mm <sup>2</sup> + 4 x 1 x 0.34 mm <sup>2</sup> |
| Nominal cross section conductor                      | 0.15 mm <sup>2</sup>                                        |
| Degree of protection                                 | IP65                                                        |
| Note on degree of protection                         | IP30 for Sub-D plug connector<br>In assembled state         |
| Ambient temperature                                  | -40 °C ... 80 °C                                            |
| Ambient temperature with moving cable                | -5 °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                                     |

| Feature                        | Value                   |
|--------------------------------|-------------------------|
| LABS (PWIS) conformity         | VDMA24364 zone III      |
| Note on materials              | RoHS-compliant          |
| Corrosion resistance class CRC | 0 - No corrosion stress |
| Material cable sheath          | TPE-U(PUR)              |
| Cable sheath colour            | Black                   |