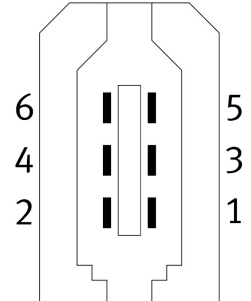


# Encoder cable

## NEBM-REG6-E-20-Q14N-REG6

Part number: 8097201

FESTO



## Data sheet

| Feature                                        | Value                                                |
|------------------------------------------------|------------------------------------------------------|
| Cable designation                              | Without label holder                                 |
| Electrical connection 1, function              | Field device side                                    |
| Electrical connection 1, design                | Square                                               |
| Electrical connection 1, connection type       | Socket                                               |
| Electrical connection 1, cable outlet          | Straight                                             |
| Electrical connection 1, connection technology | Connection pattern RE                                |
| Electrical connection 1, number of pins/wires  | 6                                                    |
| Electrical connection 1, occupied pins/wires   | 6                                                    |
| Electrical connection 2, function              | Control side                                         |
| Electrical connection 2, design                | Square                                               |
| Electrical connection 2, connection type       | Plug                                                 |
| Electrical connection 2, cable outlet          | Straight                                             |
| Electrical connection 2, connection technology | Connection pattern RE                                |
| Electrical connection 2, number of pins/wires  | 6                                                    |
| Electrical connection 2, occupied pins/wires   | 6                                                    |
| DC operating voltage range                     | 0 V...30 V                                           |
| Operating voltage range AC                     | 0 V...30 V                                           |
| Current rating at 40° C                        | 1.6 A                                                |
| Surge resistance                               | 2 kV                                                 |
| Cable length                                   | 20 m                                                 |
| Cable characteristic                           | Suitable for energy chains                           |
| Connector cable test conditions                | Test conditions on request                           |
| Bending radius, fixed cable installation       | 55 mm                                                |
| Bending radius, flexible cable installation    | 55 mm                                                |
| Cable diameter                                 | 7.4 mm                                               |
| Cable design                                   | 2 x 0.51 mm <sup>2</sup> + 4 x 0.205 mm <sup>2</sup> |
| Nominal conductor cross section                | 0.205 mm <sup>2</sup><br>0.51 mm <sup>2</sup>        |

| Feature                                              | Value                    |
|------------------------------------------------------|--------------------------|
|                                                      | AWG20<br>AWG24           |
| Degree of protection                                 | IP20                     |
| Note on degree of protection                         | In mounted state         |
| Ambient temperature                                  | -40 °C...80 °C           |
| Ambient temperature with flexible cable installation | -10 °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 Zone III       |
| Note on materials                                    | RoHS compliant           |
| Contamination level                                  | 3                        |
| Corrosion resistance class (CRC)                     | 0 - No corrosion stress  |
| Material of cable sheath                             | PVC                      |
| Color cable sheath                                   | Black                    |
| Housing material                                     | PVC                      |
| Housing colour                                       | Gray                     |
| Insulating sheath material                           | PVC                      |