

# Technical data sheet

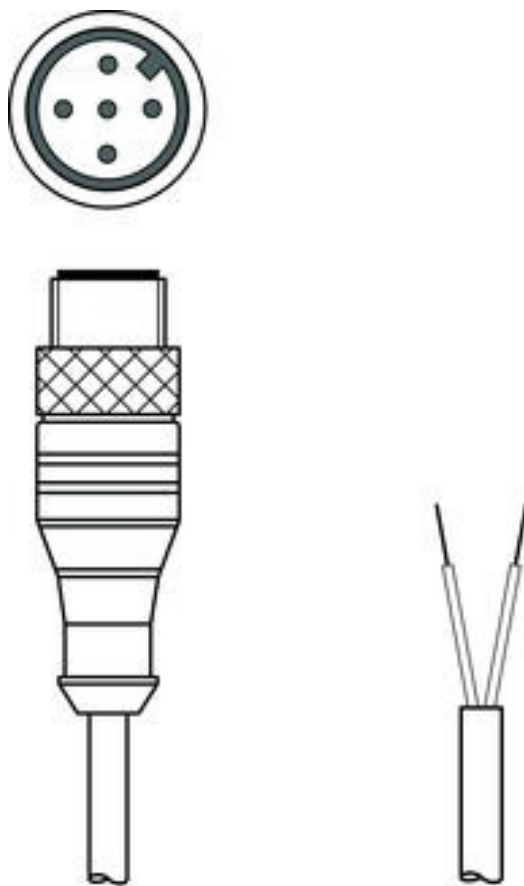
## Connection cable

Part no.: 50135248

KS PB-M12-4A-P3-050

### Contents

- Technical data
- Electrical connection
- Circuit diagrams



For illustration purposes only



## Technical data

### Basic data

|                        |                             |
|------------------------|-----------------------------|
| Application            | Oil and lubricant resistant |
| Suitable for interface | PROFIBUS DP                 |

### Electrical data

|                   |         |
|-------------------|---------|
| Performance data  |         |
| Operating voltage | 60 V DC |

### Connection

|                                   |                                                                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Connection 1</b>               |                                                                                                                                                                                                                 |
| Type of connection                | Connector                                                                                                                                                                                                       |
| Thread size                       | M12                                                                                                                                                                                                             |
| Type                              | Male                                                                                                                                                                                                            |
| Handle body material              | PUR                                                                                                                                                                                                             |
| No. of pins                       | 5 -pin                                                                                                                                                                                                          |
| Encoding                          | B-coded                                                                                                                                                                                                         |
| Version                           | Axial                                                                                                                                                                                                           |
| Connector, LED                    | No                                                                                                                                                                                                              |
| Lock                              | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking                                                                                                                              |
| <b>Connection 2</b>               |                                                                                                                                                                                                                 |
| Type of connection                | Open end                                                                                                                                                                                                        |
| <b>Cable properties</b>           |                                                                                                                                                                                                                 |
| Number of conductors              | 2 Piece(s)                                                                                                                                                                                                      |
| Wire cross section                | 0.64 mm <sup>2</sup>                                                                                                                                                                                            |
| AWG                               | 19                                                                                                                                                                                                              |
| Sheathing color                   | Violet                                                                                                                                                                                                          |
| Shielded                          | Yes                                                                                                                                                                                                             |
| Silicone-free                     | Yes                                                                                                                                                                                                             |
| Cable design                      | Connection cable (open on one end)                                                                                                                                                                              |
| Cable diameter (external)         | 7.7 mm                                                                                                                                                                                                          |
| Cable length                      | 5,000 mm                                                                                                                                                                                                        |
| Sheathing material                | PUR                                                                                                                                                                                                             |
| Wire insulation                   | PE                                                                                                                                                                                                              |
| Suitability for drag chains       | Yes                                                                                                                                                                                                             |
| Traversal rate                    | Max. 3.3 m/s with horiz. traverse path of 5m and max. acceleration of 5m/s <sup>2</sup>                                                                                                                         |
| Properties of the outer sheathing | Free of CFC, cadmium, silicone, halogen and lead, matt, low-adhesion, abrasion-resistant, easily machine-processable                                                                                            |
| Resistance of the outer sheathing | Hydrolysis and microbe resistant, good oil, gasoline and chemical resistance in accordance with VDE 0472 part 803 test B, flame retardant in accordance with UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 |

### Mechanical data

|                                         |                           |
|-----------------------------------------|---------------------------|
| Width across flats                      | 13 mm                     |
| Bending cycles                          | 5,000,000 Piece(s)        |
| Bending radius, flexible laying, min.   | Min. 12 x cable diameter  |
| Bending radius, stationary laying, min. | Min. 7.5 x cable diameter |

### Operation and display

### Environmental data

|                                                |               |
|------------------------------------------------|---------------|
| Ambient temperature, operation, flexible use   | -20 ... 70 °C |
| Ambient temperature, operation, stationary use | -40 ... 80 °C |

### Certifications

|                      |       |
|----------------------|-------|
| Degree of protection | IP 65 |
|                      | IP 67 |

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85444290 |
| ECLASS 5.1.4          | 27279201 |
| ECLASS 8.0            | 27279218 |
| ECLASS 9.0            | 27060311 |
| ECLASS 10.0           | 27060311 |
| ECLASS 11.0           | 27060311 |
| ECLASS 12.0           | 27060311 |
| ECLASS 13.0           | 27060311 |
| ECLASS 14.0           | 27060311 |
| ECLASS 15.0           | 27060311 |
| ETIM 5.0              | EC001855 |
| ETIM 6.0              | EC001855 |
| ETIM 7.0              | EC001855 |
| ETIM 8.0              | EC001855 |
| ETIM 9.0              | EC001855 |
| ETIM 10.0             | EC001855 |

## Electrical connection

### Connection 1

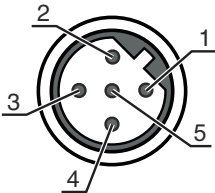
|                      |           |
|----------------------|-----------|
| Type of connection   | Connector |
| Thread size          | M12       |
| Type                 | Male      |
| Handle body material | PUR       |

Electrical connection

Connection 1

|                |                                                                                    |
|----------------|------------------------------------------------------------------------------------|
| No. of pins    | 5 -pin                                                                             |
| Encoding       | B-coded                                                                            |
| Version        | Axial                                                                              |
| Connector, LED | No                                                                                 |
| Lock           | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking |

| Pin | Conductor color |
|-----|-----------------|
| 1   | n.c.            |
| 2   | Green           |
| 3   | n.c.            |
| 4   | Red             |
| 5   | n.c.            |



Connection 2

|                    |          |
|--------------------|----------|
| Type of connection | Open end |
|--------------------|----------|

Circuit diagrams

Wiring schematic

