

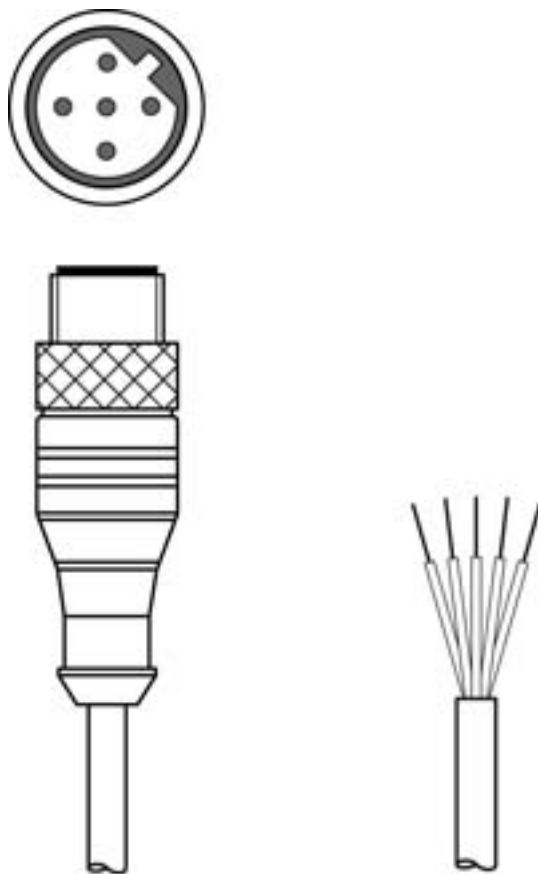
## Technical data sheet Interconnection cable

Part no.: 50108601

KB IBS-30000-SA

### Contents

- Technical data
- Electrical connection
- Circuit diagrams



For illustration purposes only



## Technical data

### Basic data

|                        |                             |
|------------------------|-----------------------------|
| Application            | Oil and lubricant resistant |
| Suitable for interface | Interbus-S                  |

### Electrical data

|                   |                 |
|-------------------|-----------------|
| Performance data  |                 |
| Operating voltage | Max. 30 V AC/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              | 5 Piece(s)                                                                                                                                                       |
| Wire cross section                | 0.25 mm <sup>2</sup>                                                                                                                                             |
| AWG                               | 24                                                                                                                                                               |
| Sheathing color                   | Violet                                                                                                                                                           |
| Shielded                          | Yes                                                                                                                                                              |
| Silicone-free                     | Yes                                                                                                                                                              |
| Cable design                      | Connection cable (open on one end)                                                                                                                               |
| Cable diameter (external)         | 7.5 mm                                                                                                                                                           |
| Cable length                      | 30,000 mm                                                                                                                                                        |
| Sheathing material                | PUR                                                                                                                                                              |
| Wire insulation                   | PP                                                                                                                                                               |
| 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 and flame retardant in accordance with DIN EN 60332-1 / VDE 0482-332-1-2 / CSA FT-1 |

### Mechanical data

|                                         |                          |
|-----------------------------------------|--------------------------|
| Width across flats                      | 13 mm                    |
| Net weight                              | 1,612 g                  |
| Bending cycles                          | 1,000,000 Piece(s)       |
| Bending radius, flexible laying, min.   | Min. 10 x cable diameter |
| Bending radius, stationary laying, min. | Min. 5 x cable diameter  |

### Operation and display

### Environmental data

|                                                |               |
|------------------------------------------------|---------------|
| Ambient temperature, operation, flexible use   | -25 ... 80 °C |
| Ambient temperature, operation, stationary use | -50 ... 80 °C |

### Certifications

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

### 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 |
| ECLASS 16.0           | 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      |
| Material             | PUR       |
| Handle body material | PUR       |

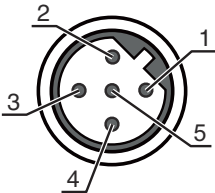
Electrical connection

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 Pin assignment

|   |       |
|---|-------|
| 1 | DATA+ |
| 2 | DATA- |
| 3 | CLK-  |
| 4 | CLK+  |
| 5 | GND   |



Connection 2

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

Circuit diagrams

Wiring schematic

