

## Technical data sheet

### Connection cable

Part no.: 50108446

KB SSI/IBS-30000-BA

#### Contents

- Technical data
- Electrical connection
- Circuit diagrams

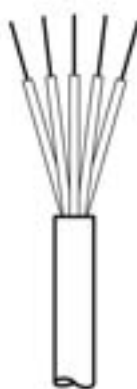


Figure can vary



## Technical data

### Basic data

|                        |            |
|------------------------|------------|
| Suitable for interface | Interbus-S |
|                        | SSI        |

### Electrical data

#### Performance data

|                   |                 |
|-------------------|-----------------|
| Operating voltage | Max. 30 V AC/DC |
|-------------------|-----------------|

### Connection

#### Connection 1

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Type of connection   | Connector                                                                          |
| Thread size          | M12                                                                                |
| Type                 | Female                                                                             |
| Handle body material | PUR                                                                                |
| No. of pins          | 5 -pin                                                                             |
| Encoding             | B-coded                                                                            |
| Lock                 | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking |

#### Connection 2

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

#### Cable properties

|                             |                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------|
| 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                    |
| 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  |

### Environmental data

|                                                |               |
|------------------------------------------------|---------------|
| Ambient temperature, operation, flexible use   | -25 ... 60 °C |
| Ambient temperature, operation, stationary use | -50 ... 80 °C |

### Certifications

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

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85444290 |
| eCl@ss 8.0            | 27279218 |
| eCl@ss 9.0            | 27060311 |
| eCl@ss 10.0           | 27060311 |
| eCl@ss 11.0           | 27060311 |
| ETIM 5.0              | EC001855 |
| ETIM 6.0              | EC001855 |

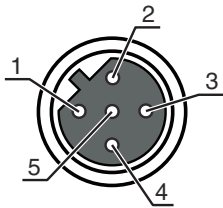
## Electrical connection

### Connection 1

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Type of connection   | Connector                                                                          |
| Thread size          | M12                                                                                |
| Type                 | Female                                                                             |
| Material             | PUR                                                                                |
| Handle body material | PUR                                                                                |
| No. of pins          | 5 -pin                                                                             |
| Encoding             | B-coded                                                                            |
| Lock                 | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking |

Electrical connection

| Pin | Pin assignment | Conductor color |
|-----|----------------|-----------------|
| 1   | DATA+          | Yellow          |
| 2   | DATA-          | Green           |
| 3   | CLK+           | Gray            |
| 4   | CLK-           | Pink            |
| 5   | GND            | Brown           |



Connection 2

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

Circuit diagrams

Wiring schematic

