

## Technical data sheet Interconnection cable

Part no.: 50143387

KDS DN-M12-5W-M12-5W-P3-100

### Contents

- Technical data
- Electrical connection

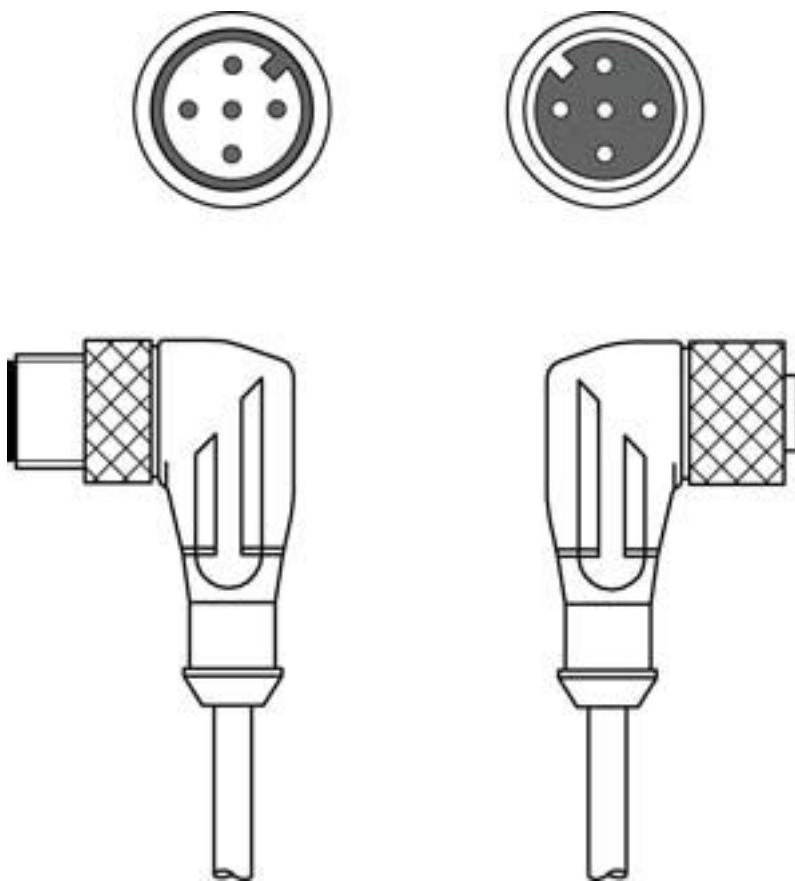


Figure can vary



## Technical data

### Basic data

|                        |           |
|------------------------|-----------|
| Suitable for interface | CANopen   |
|                        | DeviceNet |

### Electrical data

|                   |                 |
|-------------------|-----------------|
| Performance data  |                 |
| Operating voltage | Max. 60 V AC/DC |

### Connection

|                    |           |
|--------------------|-----------|
| Connection 1       |           |
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Male      |
| No. of pins        | 5 -pin    |
| Encoding           | A-coded   |
| Design             | Angled    |

|                    |                                                                             |
|--------------------|-----------------------------------------------------------------------------|
| Connection 2       |                                                                             |
| Type of connection | Connector                                                                   |
| Thread size        | M12                                                                         |
| Type               | Female                                                                      |
| No. of pins        | 5 -pin                                                                      |
| Encoding           | A-coded                                                                     |
| Design             | Angled                                                                      |
| Lock               | Screw fitting, nickel-plated brass, recommended torque 0.6 Nm, self-locking |

|                                   |                                                                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cable properties                  |                                                                                                                                                                                                                 |
| Number of conductors              | 4 Piece(s)                                                                                                                                                                                                      |
| Wire cross section                | 0.34 mm <sup>2</sup>                                                                                                                                                                                            |
| AWG                               | 24                                                                                                                                                                                                              |
| Sheathing color                   | Violet                                                                                                                                                                                                          |
| Shielded                          | Yes                                                                                                                                                                                                             |
| Silicone-free                     | Yes                                                                                                                                                                                                             |
| Cable design                      | Interconnection cable                                                                                                                                                                                           |
| Cable diameter (external)         | 7 mm                                                                                                                                                                                                            |
| Cable length                      | 10,000 mm                                                                                                                                                                                                       |
| Sheathing material                | PUR                                                                                                                                                                                                             |
| Wire insulation                   | PE                                                                                                                                                                                                              |
| Suitability for drag chains       | Yes                                                                                                                                                                                                             |
| Traversal rate                    | Max. 3.3 m/s with horiz. traversal 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. 10 x cable diameter |
| Bending radius, stationary laying, min. | Min. 5 x cable diameter  |

### Environmental data

|                                                |               |
|------------------------------------------------|---------------|
| Ambient temperature, operation, flexible use   | -30 ... 70 °C |
| Ambient temperature, operation, stationary use | -40 ... 80 °C |

### Certifications

|                      |         |
|----------------------|---------|
| Degree of protection | IP 65   |
|                      | IP 67   |
| Certifications       | c UL US |

### Classification

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

## Electrical connection

### Connection 1

|                    |           |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Male      |
| No. of pins        | 5 -pin    |
| Encoding           | A-coded   |
| Design             | Angled    |

### Connection 2

|                    |                                                                             |
|--------------------|-----------------------------------------------------------------------------|
| Type of connection | Connector                                                                   |
| Thread size        | M12                                                                         |
| Type               | Female                                                                      |
| No. of pins        | 5 -pin                                                                      |
| Encoding           | A-coded                                                                     |
| Design             | Angled                                                                      |
| Lock               | Screw fitting, nickel-plated brass, recommended torque 0.6 Nm, self-locking |