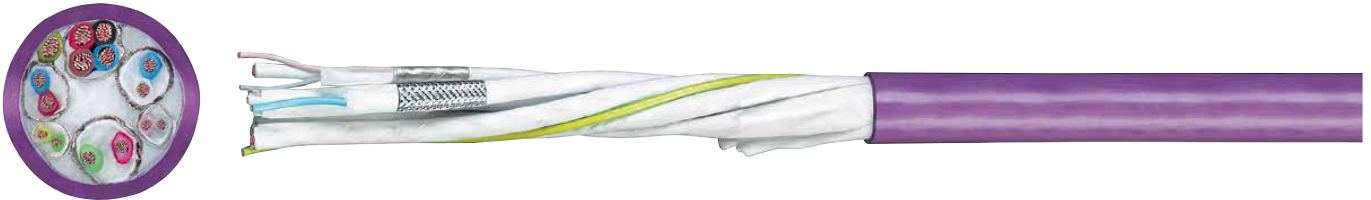


Robot bus cables



Cable design

Internal conductor

- Special conductor
- Strand class VI (super-fine wire)
- Highly flexible

Core insulation

- TPM or PUR

Core identification

- Coloured wires
- PE conductor green/yellow

Core stranding

- Wires stranded with optimum lay lengths, low-torsion stranding with matching short lay lengths by one filling element

Screening

- Tin-plated copper braid
- Optical covering > 90%

Outer sheath

- Special PUR

Cable properties

Flame-retardant

- acc. to HD 405.1 or IEC 332-1 and VW1/FT1 acc. to C-UL

Oil-resistant

- acc. to VDE 0472

Halogen-free

- in accordance with DIN VDE 0475 Part 815

Silicone-free

- The materials used in manufacture are free of silicone and cadmium, as well as of substances that impair paint wetting

Lead-free

- Based on EU Directive (RoHS) 2002/95/EC

Advantages

- Extremely high resilience to mechanical loads
- For extreme loadings
- High flexibility, even at very low temperatures

Application

Robot bus cables for the most extreme applications.

These robot cables are absolutely torsion-loadable and are highly resistant to flexural stresses. They are particularly suitable for automated production processes with 3D movements, such as occur in the automotive industry, general engineering and plant construction.



Robot bus cables

Technical data

Nominal voltage:

1.0 mm²: U_y/U: 450 V/750 V

Test voltage:

0.25 mm²: 1.5 kV, 1.0 mm²: 2.5 kV

Insulation resistance:

min. 100 MΩ x km

Temperature range when moving:

-20 °C to +60 °C max. conductor temp.

Temperature range static:

-40 °C to +70 °C max. conductor temp.

Minimum bending radius flexing:

10 x Cable diameter

Minimum bending radius static:

5 x Cable diameter

Type	Order no.	Ø in mm:	CU kg/km:	Weight kg/km:	Minimum bending radius (mm):	Remarks
Interbus cable 5x(2x0.25)+2x(2x1.0)+1.0 mm ²	82853001	13.6	120.0	220.0	136.0	
Multibus cable 1x(2x0.34)+2x(2x0.25)+2x(2x0.34)+2x(2x1.0)+1.0 mm ²	82853003	14.7	139.0	258.0	147.0	

Dimensions and specifications may be changed without prior notice.

FO data cable and FO supply cables

Type	Order no.	Ø in mm:	CU kg/km:	Weight kg/km:	Minimum bending radius (mm):	Remarks
FO data cable 2P 980/1000	82859015	8.0	-	55.0	40.0	
Profinet-FO	82859032	8.0	-	51.0	40.0	
Supply cable 5x1.5 mm ²	82859013	9.9	68.2	133.2	148.5	

Dimensions and specifications may be changed without prior notice.