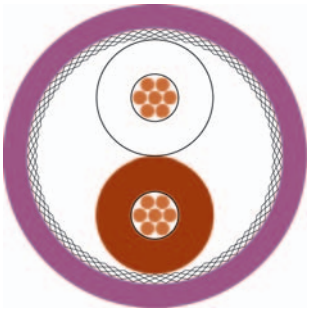
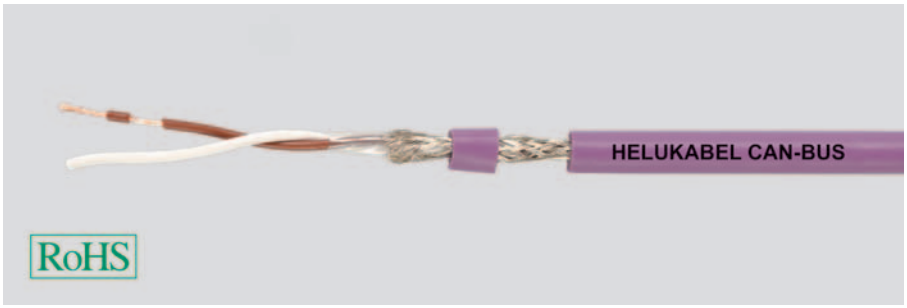
# BUS Cables

**CAN Bus**

HELUKABEL
fixed installed






| Type | Fixed installation, indoor | Fixed installation, indoor |
|---|---|---|
| **Cable structure** | **1x2x0.50 mm² (stranded)** | **4x1x0.50 mm² (stranded)** |
| Inner conductor diameter: | Copper, bare (AWG 20/7) | Copper, bare (AWG 20/7) |
| Core insulation: | Foam-skin-PE | Foam-skin-PE |
| Core colours: | wh/bn | wh, bn, gn, ye |
| Stranding element: | Double core | Star quad |
| Shielding 1: | Polyester foil over stranded bundle | Polyester foil over stranded bundle |
| Shielding 2: | - | - |
| Total shielding: | Cu braid, tinned | Cu braid, tinned |
| Outer sheath material: | PVC | PVC |
| Cable external diameter: | approx. 7,0 mm ± 0,2 mm | approx. 8,5 mm ± 0,2 mm |
| Outer sheath colour: | Violet similar to RAL 4001 | Violet similar to RAL 4001 |
| **Electrical data** | | |
| Characteristic impedance: | 120 Ohm ± 10 % | 120 Ohm ± 10 % |
| Conductor resistance, max.: | 37 Ohm/km | 37 Ohm/km |
| Insulation resistance, min.: | 1 GOhm x km | 1 GOhm x km |
| Loop resistance: | 74 Ohm/km max. | 74 Ohm/km max. |
| Mutual capacitance: | 50 nF/km nom. | 65 nF/km nom. |
| Test voltage: | 1,5 kV | 1,5 kV |
| **Technical data** | | |
| Weight: | approx. 69 kg/km | approx. 100 kg/km |
| bending radius, repeated: | 105 mm | 128 mm |
| Operating temperature range min.: | -40°C | -40°C |
| Operating temperature range max.: | +70°C | +70°C |
| Caloric load, approx. value: | 1,09 MJ/m | 1,64 MJ/m |
| Copper weight: | 30,00 kg/km | 45,00 kg/km |
| **Norms** | | |
| Applicable standards: | Profibus acc. to DIN 19245 T3 and EN50170 | Profibus acc. to DIN 19245 T3 and EN50170 |
| UL Style: | UL Style 2571 | UL Style 2571 |

## Application

The CAN bus series (control area network) is a variable field bus system. In the area of automation technology, complex controllers and control units are networked. Industries, such as the textile or construction machine industry and the medical technology, use this series. The above mentioned types are suitable for fixed laying in indoor applications. This is also a very economical solution of a BUS system.

| Part no. | | |
|---|---|---|
| | **800571,** CAN BUS | **800685,** CAN BUS |

Dimensions and specifications may be changed without prior notice.