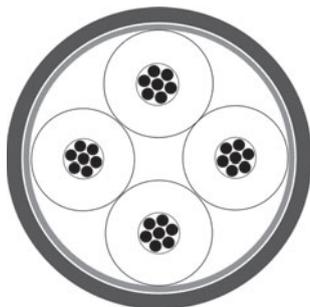


# BUS Cables

CAN Bus

**HELUKABEL®**

fixed installed



## Type

### Cable structure

Inner conductor diameter:  
Core insulation:  
Core colours:  
Stranding element:  
Shielding 1:  
Shielding 2:  
Total shielding:  
Outer sheath material:  
Cable external diameter:  
Outer sheath colour:

### Fixed installation, indoor 1x2x0.22 mm<sup>2</sup> (stranded)

Copper, bare (AWG 24/7)  
Cell PE  
wh/bn  
Double core  
Polyester foil over stranded bundle  
-  
Cu braid, tinned  
PVC  
approx. 5,4 mm ± 0,2 mm  
Violet similar to RAL 4001

### Fixed installation, indoor 4x1x0.22 mm<sup>2</sup> (stranded)

Copper, bare (AWG 24/7)  
Cell PE  
wh, bn, gn, ye  
Star quad  
Polyester foil over stranded bundle  
-  
Cu braid, tinned  
PVC  
approx. 6,9 mm ± 0,2 mm  
Violet similar to RAL 4001

## Electrical data

Characteristic impedance:  
Conductor resistance, max.:  
Insulation resistance, min.:  
Loop resistance:  
Mutual capacitance:  
Nominal voltage:  
Test voltage:

120 Ohm ± 10 %  
87 Ohm/km  
1 GOhm x km  
174 Ohm/km max.  
58 nF/km nom.  
30 V  
1,5 kV

120 Ohm ± 10 %  
87 Ohm/km  
1 GOhm x km  
174 Ohm/km max.  
58 nF/km nom.  
30 V  
1,5 kV

## Technical data

Weight:  
Min. bending radius for laying:  
Operating temperature range min.:  
Operating temperature range max.:  
Caloric load, approx. value:  
Copper weight:

approx. 41 kg/km  
81 mm  
-40°C  
+70°C  
0,574 MJ/m  
17,00 kg/km

approx. 60 kg/km  
107 mm  
-40°C  
+70°C  
1,234 MJ/m  
21,00 kg/km

## Norms

Applicable standards:  
UL Style:

Profibus acc. to DIN 19245 T3 and EN50170  
UL Style 2571

Profibus acc. to DIN 19245 T3 and EN50170  
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.

**81286**, CAN BUS

**81287**, CAN BUS

Dimensions and specifications may be changed without prior notice.

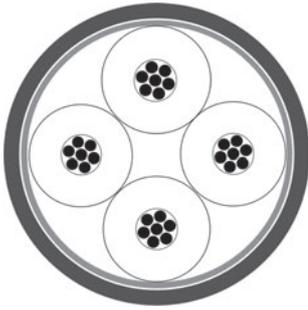
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# BUS Cables

CAN Bus

 **HELUKABEL®**

fixed installed



## Type

### Cable structure

Inner conductor diameter:  
Core insulation:  
Core colours:  
Stranding element:  
Shielding 1:  
Shielding 2:  
Total shielding:  
Outer sheath material:  
Cable external diameter:  
Outer sheath colour:

### Fixed installation, indoor 1x2x0.34 mm<sup>2</sup> (stranded)

Copper, bare (AWG 22/7)  
Cell PE  
wh/bn  
Double core  
Polyester foil over stranded bundle  
-  
Cu braid, tinned  
PVC  
approx. 6,5 mm ± 0,2 mm  
Violet similar to RAL 4001

### Fixed installation, indoor 4x1x0.34 mm<sup>2</sup> (stranded)

Copper, bare (AWG 22/7)  
Cell PE  
wh/bn, gn/ye  
Star quad  
Polyester foil over stranded bundle  
-  
Cu braid, tinned  
PVC  
approx. 8,0 mm ± 0,2 mm  
Violet similar to RAL 4001

## Electrical data

Characteristic impedance:  
Conductor resistance, max.:  
Insulation resistance, min.:  
Loop resistance:  
Mutual capacitance:  
Nominal voltage:  
Test voltage:

120 Ohm ± 10 %  
57,5 Ohm/km  
5 GOhm x km  
115 Ohm/km max.  
40 nF/km nom.  
30 V  
2 kV

120 Ohm ± 10 %  
57,5 Ohm/km  
5 GOhm x km  
115 Ohm/km max.  
40 nF/km nom.  
30 V  
2 kV

## Technical data

Weight:  
Min. bending radius for laying:  
Operating temperature range min.:  
Operating temperature range max.:  
Caloric load, approx. value:  
Copper weight:

approx. 54 kg/km  
98 mm  
-25°C  
+70°C  
1,109 MJ/m  
23,00 kg/km

approx. 77 kg/km  
120 mm  
-25°C  
+70°C  
1,179 MJ/m  
30,00 kg/km

## Norms

Applicable standards:  
UL Style:

Profibus acc. to DIN 19245 T3 and EN50170  
UL Style 2571

Profibus acc. to DIN 19245 T3 and EN50170  
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.

**801572**, CAN BUS

**801573**, CAN BUS

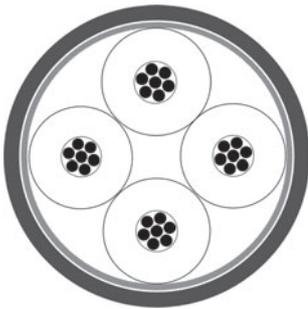
Dimensions and specifications may be changed without prior notice.

# BUS Cables

CAN Bus

**HELUKABEL®**

fixed installed



## Type

### Cable structure

Inner conductor diameter:  
Core insulation:  
Core colours:  
Stranding element:  
Shielding 1:  
Shielding 2:  
Total shielding:  
Outer sheath material:  
Cable external diameter:  
Outer sheath colour:

### Fixed installation, indoor 1x2x0.50 mm<sup>2</sup> (stranded)

Copper, bare (AWG 20/7)  
Foam-skin-PE  
wh/bn  
Double core  
Polyester foil over stranded bundle  
-  
Cu braid, tinned  
PVC  
approx. 7,0 mm ± 0,2 mm  
Violet similar to RAL 4001

### Fixed installation, indoor 4x1x0.50 mm<sup>2</sup> (stranded)

Copper, bare (AWG 20/7)  
Foam-skin-PE  
wh, bn, gn, ye  
Star quad  
Polyester foil over stranded bundle  
-  
Cu braid, tinned  
PVC  
approx. 8,5 mm ± 0,2 mm  
Violet similar to RAL 4001

## Electrical data

Characteristic impedance:  
Conductor resistance, max.:  
Insulation resistance, min.:  
Loop resistance:  
Mutual capacitance:  
Test voltage:

120 Ohm ± 10 %  
37 Ohm/km  
1 GOhm x km  
74 Ohm/km max.  
50 nF/km nom.  
1,5 kV

120 Ohm ± 10 %  
37 Ohm/km  
1 GOhm x km  
74 Ohm/km max.  
65 nF/km nom.  
1,5 kV

## Technical data

Weight:  
Min. bending radius for laying:  
Operating temperature range min.:  
Operating temperature range max.:  
Caloric load, approx. value:  
Copper weight:

approx. 69 kg/km  
105 mm  
-40°C  
+70°C  
1,09 MJ/m  
30,00 kg/km

approx. 100 kg/km  
128 mm  
-40°C  
+70°C  
1,64 MJ/m  
45,00 kg/km

## Norms

Applicable standards:  
UL Style:

Profibus acc. to DIN 19245 T3 and EN50170  
UL Style 2571

Profibus acc. to DIN 19245 T3 and EN50170  
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

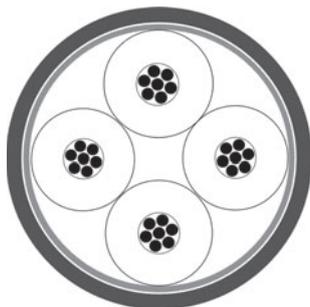
Dimensions and specifications may be changed without prior notice.

# BUS Cables

CAN Bus

**HELUKABEL**<sup>®</sup>

Drag Chain



## Type

### Cable structure

Inner conductor diameter:  
Core insulation:  
Core colours:  
Stranding element:  
Shielding 1:  
Shielding 2:  
Total shielding:  
Outer sheath material:  
Cable external diameter:  
Outer sheath colour:

### Drag chain applications 1x2x0.25 mm<sup>2</sup> (stranded)

Copper, bare (AWG 24/19)  
PE  
wh/bn  
Double core  
Polyester foil over stranded bundle  
-  
Cu braid, tinned  
PUR  
approx. 6,2 mm ± 0,3 mm  
Violet similar to RAL 4001

### Drag chain applications 4x1x0.25 mm<sup>2</sup> (stranded)

Copper, bare (AWG 24/19)  
PE  
wh, bn, gn, ye  
Star quad  
Polyester foil over stranded bundle  
-  
Cu braid, tinned  
PUR  
approx. 6,5 mm ± 0,3 mm  
Violet similar to RAL 4001

## Electrical data

Characteristic impedance:  
Conductor resistance, max.:  
Insulation resistance, min.:  
Loop resistance:  
Mutual capacitance:  
Test voltage:

120 Ohm ± 10 %  
85 Ohm/km  
1 GOhm x km  
170 Ohm/km max.  
50 nF/km nom.  
1,5 kV

120 Ohm ± 10 %  
85 Ohm/km  
1 GOhm x km  
170 Ohm/km max.  
50 nF/km nom.  
1,5 kV

## Technical data

Weight:  
Min. bending radius for laying:  
Operating temperature range min.:  
Operating temperature range max.:  
Caloric load, approx. value:  
Copper weight:

approx. 40 kg/km  
90 mm  
-20°C  
+70°C  
0,798 MJ/m  
18,00 kg/km

approx. 45 kg/km  
95 mm  
-20°C  
+70°C  
0,943 MJ/m  
25,00 kg/km

## Norms

Applicable standards:

Profibus acc. to DIN 19245 T3 and EN50170

Profibus acc. to DIN 19245 T3 and EN50170

## 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 lines specified here are designed for highly flexible applications. This is also a very economical solution of a BUS system.

## Part no.

**81911**, CAN BUS, highly flexible

**81912**, CAN BUS, highly flexible

Dimensions and specifications may be changed without prior notice.

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