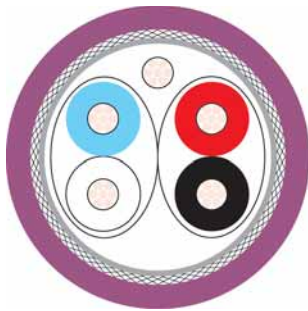


# BUS Cables

DeviceNet™ fixed installed thick + thin



FRNC



## Type Cable structure

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

## Fixed installation, indoor 1x2xAWG18 + 1x2xAWG15

Copper, tinned (AWG 18/19)  
Copper, tinned (AWG 15/19)  
Cell PE  
PE  
light bu, wh  
rd, bk  
Double core  
-  
Al-Foil  
Cu braid, tinned  
yes  
FRNC  
app. 12,2 mm ± 0,3 mm  
Violet similar to RAL 4001

## Fixed installation, indoor 1x2xAWG24 + 1x2xAWG22

Copper, tinned (AWG 24/19)  
Copper, tinned (AWG 22/19)  
Cell PE  
PE  
light bu, wh  
rd, bk  
Double core  
-  
Al-Foil  
Cu braid, tinned  
yes  
FRNC  
app. 6,9 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:  
Attenuation:

120 Ohm ± 10 %  
22,6 Ohm/km  
0,2 GOhm x km  
45,2 Ohm/km max.  
39 nF/km nom.  
2 kV  
125 kHz < 4.2 dB/km  
500 kHz < 8.1 dB/km

120 Ohm ± 10 %  
90 Ohm/km  
0,2 GOhm x km  
180 Ohm/km max.  
39,8 nF/km nom.  
2 kV  
125 kHz < 9.5 dB/km  
500 kHz < 16.4 dB/km

## Technical data

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

app. 195 kg/km  
190 mm  
-25°C  
+80°C  
2,73 MJ/m  
88,00 kg/km

app. 70 kg/km  
110 mm  
-25°C  
+80°C  
0,82 MJ/m  
34,00 kg/km

## Norms

Applicable standards:

ODVA DeviceNet  
Halogen-free acc. to 60754-1  
Flame-retardant acc. IEC 60332-2-1  
CL2 CMG  
CEC: CMG FT4

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## Application

HELUKABEL® DeviceNet™ FRNC for fixed installation in areas where high flame retardance and a halogen-free design are needed. The special aspect of this bus system is that a data pair and a power supply pair are **always** integrated in one cable. The small cross-section is used for short distances or as a point-to-point connection; the large cross-section as main conductor for long distances and frequently in combination with the thin conductor as drain wire.

## Part no.

**800681**, DeviceNet FRNC

**800682**, DeviceNet FRNC

Dimensions and specifications may be changed without prior notice.