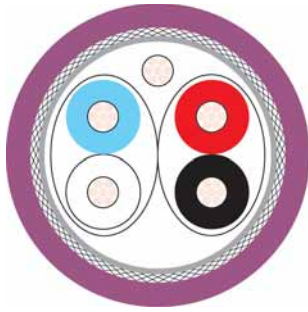


BUS Cables

DeviceNet™ fixed installed thick + thin

HELUKABEL®

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

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.

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