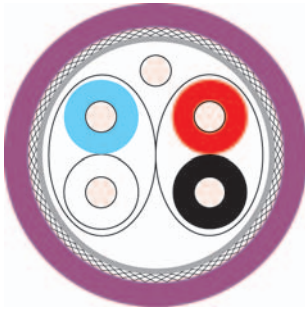


BUS Cables

DeviceNet™

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:
Shielding 1:
Shielding 2:
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
-
Polyester foil, aluminium-lined
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
-
Polyester foil, aluminium-lined
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 Ohm/km max.
39 nF/km nom.
2 kV
125 kHz < 0.42 dB/100m
500 kHz < 0.81 dB/100m

120 Ohm ± 10 %
90 Ohm/km
0,2 GOhm x km
180 Ohm/km max.
39,8 nF/km nom.
2 kV
125 kHz < 0.95 dB/100m
500 kHz < 1.64 dB/100m

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 60754-2
Flame-retardant acc. to EN 50265-2-1
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.