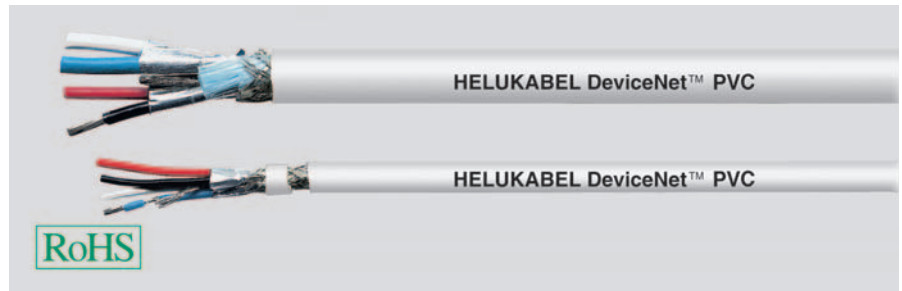
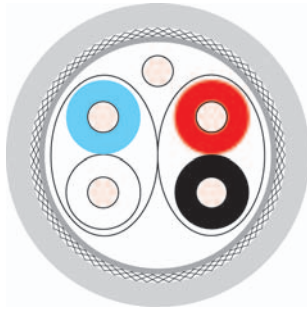


BUS Cables

DeviceNet™

HELUKABEL®

PVC



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:

Electrical data

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

Technical data

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

Norms

Applicable standards:

UL Style:
CSA standard:

Application

HELUKABEL® DeviceNet™ PVC for fixed installation. 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.

Dimensions and specifications may be changed without prior notice.

Fixed installation, indoor 1x2xAWG18 + 1x2xAWG15

Copper, tinned (AWG 18/19)
Copper, tinned (AWG 15/19)
Foam-skin-PE
PVC
light bu, wh
rd, bk
Double core
-
Polyester foil, aluminium-lined
Cu braid, tinned
yes
PVC
app. 12,2 mm ± 0,3 mm
Grey

120 Ohm ± 10 %
22,6 Ohm/km
0,2 GOhm x km
45 Ohm/km max.
39,8 nF/km nom.
2 kV
125 kHz < 0,42 dB/100m
500 kHz < 0,81 dB/100m

app. 192 kg/km
190 mm
-20°C
+80°C
2,92 MJ/m
88,00 kg/km

ODVA DeviceNet™
Flame-retardant acc. to EN 50265-2-1
CMG 75°C PLTC FT4
CEC: CMG FT4

Fixed installation, indoor 1x2xAWG24 + 1x2xAWG22

Copper, tinned (AWG 24/19)
Copper, tinned (AWG 22/19)
Foam-skin-PE
PVC
light bu, wh
rd, bk
Double core
-
Polyester foil, aluminium-lined
Copper shifting, tinned
yes
PVC
app. 6,9 mm ± 0,3 mm
Grey

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

app. 67 kg/km
110 mm
-20°C
+80°C
0,91 MJ/m
35,00 kg/km

ODVA DeviceNet™
Flame-retardant acc. to EN 50265-2-1
CMG 75°C PLTC FT4
CSA FT 4

800683, DeviceNet™ PVC

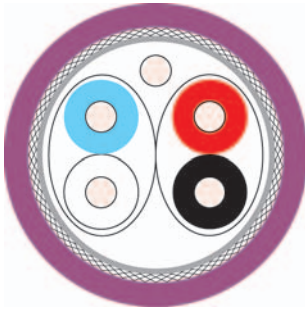
800684, DeviceNet™ PVC

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

ODVA DeviceNet™
Halogen-free acc. to 60754-2
Flame-retardant acc. to EN 50265-2-1
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

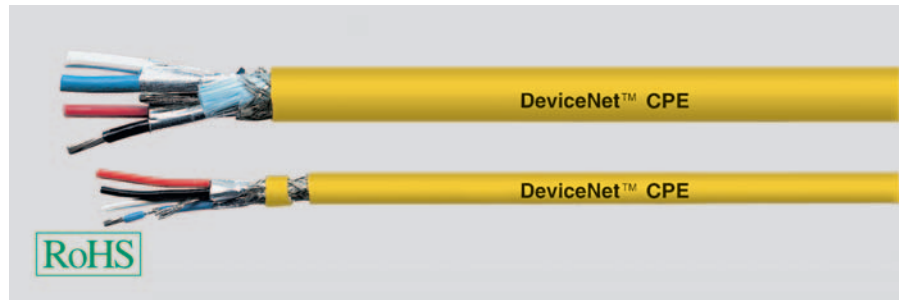
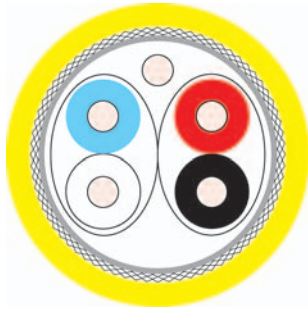
Dimensions and specifications may be changed without prior notice.

BUS Cables

DeviceNet™



CPE



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:

Electrical data

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

Technical data

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

Norms

Applicable standards:

UL Style:
CSA standard:

Application

HELUKABEL® DeviceNet™ CPE for fixed installation with very high flame-retardance requirements. 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.

Dimensions and specifications may be changed without prior notice.

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
CPE
app. 12,0 mm ± 0,3 mm
Yellow

120 Ohm ± 10 %
22,6 Ohm/km
0,2 GOhm x km
45 Ohm/km max.
39 nF/km nom.
2 kV
125 kHz < 0,43 dB/100m
500 kHz < 0,82 dB/100m

app. 195 kg/km
190 mm
-20°C
+60°C
2,73 MJ/m
71,20 kg/km

ODVA DeviceNet™
Flame-retardant acc. to EN 50265-2-1
CMG PLTC
CEC: CMG FT4

Fixed installation, indoor 1x2xAWG24 + 1x2xAWG22

Copper, tinned (AWG 24/19)
Copper, tinned (AWG 22/19)
PE
PVC
light bu, wh
rd, bk
Double core
-
Polyester foil, aluminium-lined
Cu braid, tinned
yes
CPE
app. 7,0 mm ± 0,3 mm
Yellow

120 Ohm ± 10 %
90 Ohm/km
0,2 GOhm x km
180 Ohm/km max.
39 nF/km nom.
2 kV
125 kHz < 0,95 dB/100m
500 kHz < 1,64 dB/100m

app. 70 kg/km
110 mm
-20°C
+60°C
0,82 MJ/m
28,10 kg/km

ODVA DeviceNet™
Flame-retardant acc. to EN 50265-2-1
CL2 CMG
CEC: CMG FT4

81907, DeviceNet™ CPE

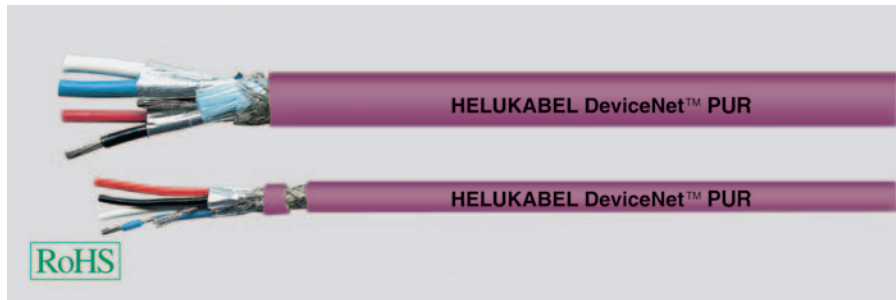
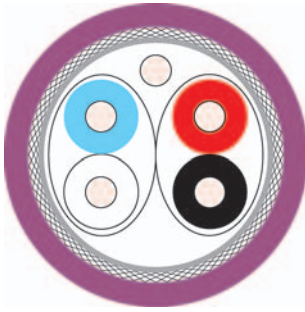
81908, DeviceNet™ CPE

BUS Cables

DeviceNet™

HELUKABEL®

PUR, high flexible



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:

Drag chain applications 1x2xAWG18 + 1x2xAWG15

Copper, tinned (AWG 18/40)
Copper, tinned (AWG 15/84)
Cell PE
PE
light bu, wh
rd, bk
Double core
-
Polyester foil, aluminium-lined
Cu braid, tinned
yes
PUR
app. 12,2 mm ± 0,3 mm
Violet similar to RAL 4001

Drag chain applications 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
PUR
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.
39,8 nF/km nom.
2 kV
125 kHz < 0,41 dB/100m
500 kHz < 0,82 dB/100m

120 Ohm ± 10 %
90 Ohm/km
0,2 GOhm x km
45 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. 185 kg/km
61 mm
-40°C
+80°C
2,54 MJ/m
90,00 kg/km

app. 68 kg/km
70 mm
-40°C
+80°C
0,76 MJ/m
35,00 kg/km

Norms

Applicable standards:

ODVA DeviceNet™
Halogen-free acc. to 60754-2
Flame-retardant acc. to EN 50265-2-1
CMX 75°C CL2X

ODVA DeviceNet™
Halogen-free acc. to 60754-2
Flame-retardant acc. to EN 50265-2-1
CMX 75°C CL2X

Application

HELUKABEL® DeviceNet™ PU highly flexible for use in cable carriers with outstanding resistance to common coolants/lubricants. 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.

81909, DeviceNet™ PUR

81910, DeviceNet™ PUR

Dimensions and specifications may be changed without prior notice.