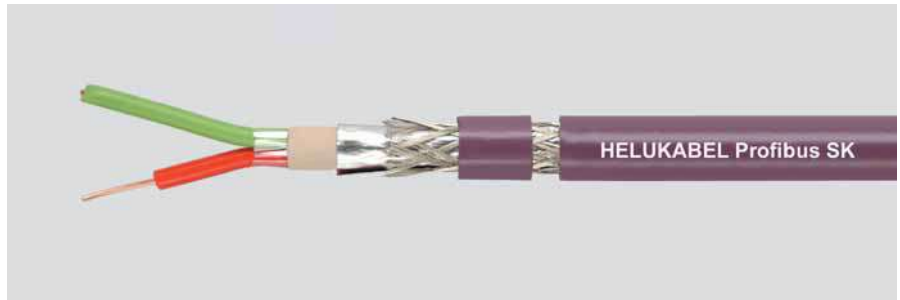
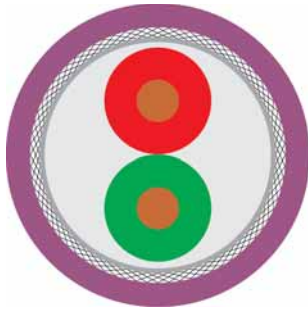


Profibus SK fixed installed FRNC + Robust



Type
Cable structure

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

Fixed installation, indoor
1x2x0.64 mm

Copper, bare (AWG 22/1)
 Foam-skin-PE
 rd, gn
 Double core
 Polyester foil over stranded bundle
 FRNC
 Al-Foil
 Cu braid, tinned
 FRNC
 app. 8,0 mm ± 0,4 mm
 Violet similar to RAL 4001

Industrial Area
1x2x0.64 mm

Copper, bare (AWG 22/1)
 Foam-skin-PE
 rd, gn
 Double core
 Polyester foil over stranded bundle
 FRNC
 Al-Foil
 Cu braid, tinned
 PUR
 app. 8,0 mm ± 0,4 mm
 Violet similar to RAL 4001

Electrical data

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

150 Ohm ± 10 %
 55 Ohm/km
 1 GOhm x km
 110 Ohm/km max.
 35 nF/km nom.
 1,5 kV
 9,6 kHz < 2,5 dB/km
 38,4 kHz < 4,0 dB/km
 4 MHz < 22,0 dB/km
 16 MHz < 42,0 dB/km

150 Ohm ± 10 %
 55 Ohm/km
 1 GOhm x km
 110 Ohm/km max.
 35 nF/km nom.
 1,5 kV
 9,6 kHz < 2,5 dB/km
 38,4 kHz < 4,0 dB/km
 4 MHz < 22,0 dB/km
 16 MHz < 42,0 dB/km

Technical data

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

app. 73 kg/km
 160 mm
 -25°C
 +70°C
 1,203 MJ/m
 24,00 kg/km

app. 71 kg/km
 120 mm
 -40°C
 +70°C
 1,574 MJ/m
 24,00 kg/km

Norms

Applicable standards:

Profibus acc. to DIN 19245 T3 and EN50170
 Halogen-free acc. to 60754-1
 Flame-retardant acc. IEC 60332-2-1
 CM 750C (shielded)

Profibus acc. to DIN 19245 T3 and EN50170
 Halogen-free acc. to 60754-1
 Flame-retardant acc. to IEC 60332-1-2
 AWM Style 20236 AWM I/II A/B 80°C 30V
 FT1
 CSA FT1

UL Style:

CSA standard:

Application

HELUKABEL® Profibus SK FRNC + Robust has a special structure for processing with the Fast Connect Stripping Tool from Siemens. The FRNC version is used to satisfy halogen-free and flame-retardant requirements in buildings. The Robust version is used in harsh industrial environments and offers excellent resistance to mineral oils, greases and cooling lubricants.

Part no.

81501, Profibus SK

81905, Profibus SK

Dimensions and specifications may be changed without prior notice.