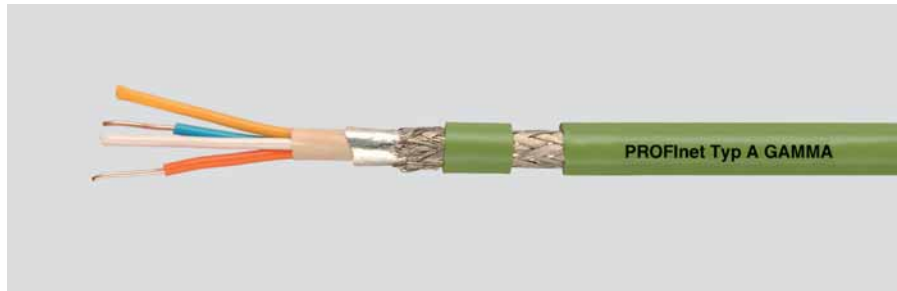
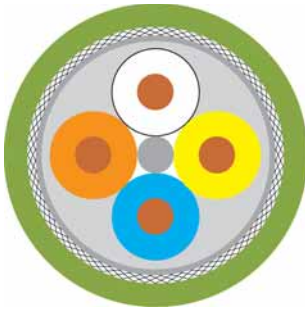


Industrial Ethernet

PROFnet Type A radiation resistant + armoured

HELUKAT[®]

PUR + PE



Type Cable structure

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

ray loaded areas 2x2x0.64 mm

Copper, bare (AWG 22/1)
XLPE ray cross-linking
wh, ye, bu, og
Star quad
Polyester foil over stranded bundle
TPR ray cross-linking
Al-Foil
Cu braid, tinned
-
PUR
app. 6,5 mm ± 0,2 mm
Green similar to RAL 6018

Fixed installation, outdoor 2x2x0.64 mm

Copper, bare (AWG 22/1)
PE
wh, ye, bu, og
Star quad
Polyester foil over stranded bundle
PVC
Al-Foil
Cu braid, tinned
Steel band
PE
app. 9,3 mm ± 0,5 mm
Black

Electrical data

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

100 Ohm ± 15 Ohm at 1 to 100 MHz
62 Ohm/km
0,5 GOhm x km
124 Ohm/km max.
50 nF/km nom.
2 kV

100 Ohm ± 15 Ohm at 1 to 100 MHz
57,5 Ohm/km
0,5 GOhm x km
115 Ohm/km max.
50 nF/km nom.
2 kV

Typical values

Frequency (MHz)	10	16	62,5	100
Attenuation (dB/100m)	5,2	6,9	15,0	19,5
Next (db)	70,0	65,0	55,0	50,0
ACR (db)	64,8	58,1	40,0	30,5

Technical data

Weight: app. 63 kg/km
bending radius, repeated: 100 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +80°C
Caloric load, approx. value: 0,29 MJ/m
Copper weight: 32,00 kg/km

app. 124 kg/km
100 mm
-40°C
+70°C
2,14 MJ/m
31,00 kg/km

Norms

Applicable standards: PROFnet Guideline + IEC 61158-2
Acc. to ISO/IEC 11801
Acc. to EN 50173
Category 5e

PROFnet Guideline + IEC 61158-2
Acc. to ISO/IEC 11801
Acc. to EN 50173
Category 5e

Application

HELUKAT[®] PROFnet Type A Cat 5e is radiation-resistant + armoured for fixed installation in industrial networks. It guarantees excellent transmission characteristics and may be used even under the harshest conditions. The cables listed here correspond to PROFnet Type A and thanks to their special construction with cross-linked PVC-inner sheath/PUR outer sheath are well-suited for fixed applications inside irradiated areas, while the armoured type with PVC inner sheath/PE outer sheath is ideal for areas with rodent problems.

Part no.

801195, PROFnet type A (SK)

801650, PROFnet type A (SK)

Dimensions and specifications may be changed without prior notice.

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