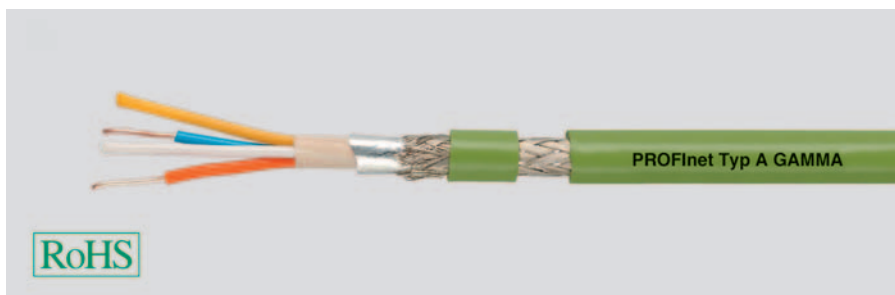
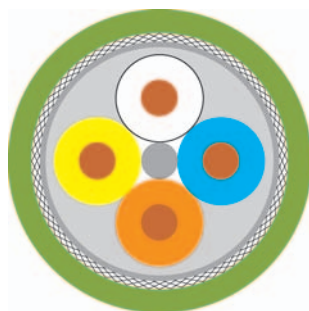


Industrial Ethernet

PROFInet Type A

HELUKAT[®]

radiation resistant + armoured



Type

Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Shielding 1:
Inner sheath material:
Shielding 2:
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
Polyester foil, aluminium-lined
Cu braid, tinned
-
PUR
approx. 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
Polyester foil, aluminium-lined
Cu braid, tinned
Steel rib
PE
approx. 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

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

approx. 63 kg/km
100 mm
-40°C
+80°C
0,29 MJ/m
32,00 kg/km

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

Norms

Applicable standards:

PROFInet Guideline
Acc. to ISO/IEC 11801
Acc. to EN 50173
Category 5e

PROFInet Guideline
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Application

These copper data cables, designed especially for heavy-duty industrial applications are very well suited for Ethernet applications. They ensure superior transmission properties and can be used even under most severe conditions. The line specified here correspond to the PROFInet type A and because of the special construction with cross-linked inner-jacket and PUR outer-jacket it is suitable for fixed installation applications inside radiated areas and with the PVC inner-jacket/PE outer-jacket it is suitable for areas with rodent problems.

Part no.

801195, PROFInet type A (SK)

801650, PROFInet type A (SK)

Dimensions and specifications may be changed without prior notice.