



Type Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Shielding 1:
Shielding 2:
Total shielding:
Armouring:
Inner sheath material:
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
Polyester foil, aluminium-lined
Cu braid, tinned
-
TPR ray cross-linking
PUR
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
Polyester foil, aluminium-lined
Cu braid, tinned
Steel rib
PVC
PE
9,3 mm ± 0,5 mm
Black

Electrical data

Characteristic impedance:
Conductor resistance:
Insulation resistance:
Mutual capacitance:
Test voltage:

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

100 Ohm ± 15 ohm at 1 to 100 MHz
62,0 Ohm/km max.
0,50 GOhm x km min.
50,0 nF/km nom.
2,0 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:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx value:
Copper value:

approx. 63,0 kg/km
46,0 mm
-40 °C
+80 °C
0,29 MJ/m
32,0 kg/km

approx. 124,0 kg/km
93,0 mm
-40 °C
+70 °C
2,14 MJ/m
32,0 kg/km

Norms

Applicable standards:

PROFInet Draft

PROFInet Draft

Application

These copper data cables, designed especially for heavy-duty industrial applications are very well suited for Ethernet applications. They ensure superiour 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)