



Type Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Shielding 1:
Shielding 2:
Total shielding:
Inner sheath material:
Outer sheath material:
Cable external diameter:
Outer sheath colour:

Fixed installation, indoor 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
PVC
PVC
6,5 mm ± 0,2 mm
Green similar to RAL 6018

Heavy duty 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
PVC
PUR
6,5 mm ± 0,2 mm
Green similar to RAL 6018

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. 67,0 kg/km
100,0 mm
-40 °C
+70 °C
0,34 MJ/m
32,0 kg/km

approx. 64,0 kg/km
46,0 mm
-40 °C
+70 °C
0,91 MJ/m
32,0 kg/km

Norms

Applicable standards:
UL Style:
CSA standard:

PROFINet Draft
CMG PLTC
CEC: CMG FT4

PROFINet Draft
-
-

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 it is designed for normal (PVC) and robust (PUR) fixed installation applications.

Part no.

800653, PROFINet type A (SK)

801194, PROFINet type A (SK)