



### 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  
approx. 6,5 mm ± 0,2 mm  
Green similar to RAL 6018

### Industrial Area 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  
approx. 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

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

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 60°C or PLTC or AWM 20201  
CSA FT 4

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

### Part no.

**800653**, PROFINet type A (SK)

**801194**, PROFINet type A (SK)

Dimensions and specifications may be changed without prior notice.