



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:

Mobile use 2x2x0,64 mm (stranded)

Copper, tinned (AWG 22/7)
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

Drag chain applications 2x2x0.64 mm (stranded)

Copper, tinned (AWG 22/7)
PE
wh, ye, bu, og
Star quad
Polyester foil over stranded bundle
Polyester foil, aluminium-lined
Cu braid, tinned
FRNC
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.
52,0 nF/km nom.
2,0 kV

100 Ohm ± 15 ohm at 1 to 100 MHz
60,0 Ohm/km max.
0,50 GOhm x km min.
52,0 nF/km nom.
0,7 kV

Typical values

Frequency	(MHz)	10	16	62,5	100
Attenuation	(dB/100m)	6,0	7,6	16,0	21,0
Next	(db)	70,0	65,0	55,0	50,0
ACR	(db)	64,0	57,4	39,0	29,0

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

approx. 61,0 kg/km
50,0 mm
-40 °C
+70 °C
0,85 MJ/m
32,0 kg/km

Norms

Applicable standards:
UL Style:
CSA standard:

PROFinet Draft
CMG PLTC
CEC: CMG FT4

PROFinet Draft
CMX 750C (shielded)
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Application

This copper data cable, designed especially for heavy-duty industrial applications is very well suited for Ethernet applications. It ensures superior transmission properties and can be used even under most severe conditions. The lines specified here corresponds the PROFinet types B and C, i.e. they are designed for flexible and highly flexible applications, such as drag chains.

Part no.

800654, PROFinet type B (SK)

800655, PROFinet type C (SK)