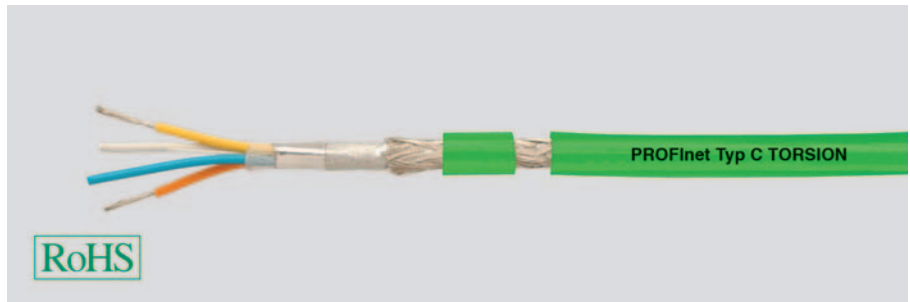
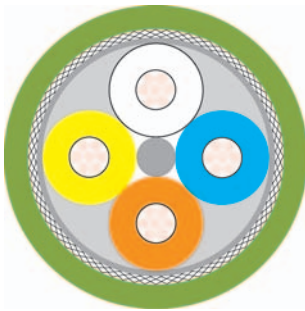


Industrial Ethernet

PROFINet Type C

HELUKAT[®]

Torsion



Type

Cable structure

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

Torsional applications

2x2x0,75 mm (stranded)

Copper, tinned (AWG 22/19)
Foam-skin-PE
wh, ye, bu, og
Star quad
Polyester foil over stranded bundle
Polyester foil, aluminium-lined
Cu braid, tinned
PUR
approx. 6,5 mm ± 0,2 mm
Green similar to RAL 6018

Electrical data

Characteristic impedance: 100 Ohm ± 15 ohm at 1 to 100 MHz
Conductor resistance, max.: 60 Ohm/km
Insulation resistance, min.: 0,5 GOhm x km
Loop resistance: 120 Ohm/km max.
Mutual capacitance: 52 nF/km nom.
Test voltage: 0,7 kV

Typical values

Frequency (MHz)	10	16	62,5	100
Attenuation (db/100m)	7,6	10,0	26,5	41,0
ELFEXT (db)	43,8	39,7	24,0	20,0

Technical data

Weight: approx. 54 kg/km
bending radius, repeated: 70 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +80°C
Caloric load, approx. value: 0,45 MJ/m
Copper weight: 32,00 kg/km

Norms

Applicable standards: PROFINet Guideline
Category 5e
Halogen-free acc. to 60754-2
Flame-retardant acc. to IEC 60332-1
Corrosiveness acc. to EN50267-2-3
Low-smoke acc. to EN50268-2
UL Style: AWM Style 21161 80°C

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 C, i.e. they are designed for torsion applications, such as roboter arms.

Part no.

802186, PROFINet type C (SK)

Dimensions and specifications may be changed without prior notice.