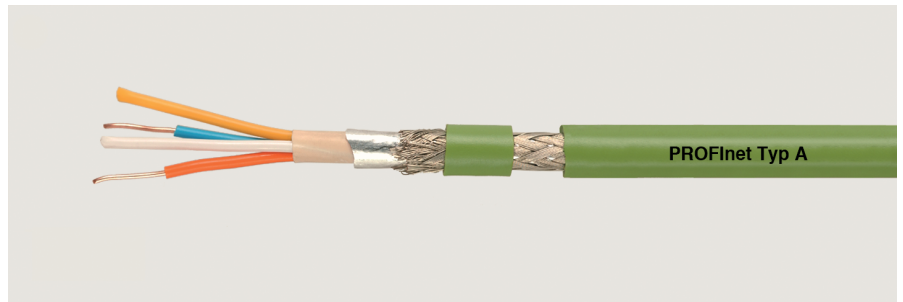
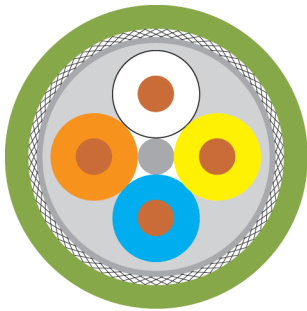


# Industrial Ethernet

HELUKAT® PROFINet Typ A 2x2xAWG22/1 FRNC

HELUKAT®

FRNC



## Type Cable structure

Inner conductor diameter:  
Core insulation:  
Core colours:  
Stranding element:  
Separator:  
Inner sheath material:  
Shielding 1:  
Total shielding:  
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  
FRNC  
Al-Foil  
Cu braid, tinned  
FRNC  
app. 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.: 57,5 Ohm/km  
Insulation resistance, min.: 5 GOhm x km  
Loop resistance: 115 Ohm/km max.  
Mutual capacitance: 48 nF/km nom.  
Test voltage: 2 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: app. 65 kg/km  
bending radius, repeated: 65 mm  
Operating temperature range min.: -25°C  
Operating temperature range max.: +75°C  
Caloric load, approx. value: 0,34 MJ/m  
Copper weight: 32,00 kg/km

## Norms

Applicable standards: PROFINet Guideline + IEC 61158-2  
Acc. to ISO/IEC 11801  
Acc. to EN 50173  
Category 5e  
Halogen-free acc. to 60754-1  
Flame-retardant acc. to IEC 60332-3  
Corrosiveness acc. to EN50267-2-3  
Low-smoke acc. to EN50268-2  
CMG 75°C or PLTC or AWM 21279 600V  
CSA FT 4

UL Style:

CSA standard:

## Application

HELUKAT® PROFINet Type A FRNC Category 5e for fixed installation in industrial networks, rugged. It guarantees excellent transmission characteristics and may be used even under the harshest conditions. The cable listed here corresponds to PROFINet Type A in halogen free and flame retardent design.

## Part no.

**805653**, PROFINet type A (SK)

Dimensions and specifications may be changed without prior notice.