# HELUKAT® PROFInet C CAT.5e SF/UTP PVC CHAIN













PROFInet Type C, FastConnect (SK) capable, highly flame-retardant

#### **TECHNICAL DATA**

Industrial Ethernet cable / Cat. 5e acc. to ISO/IEC 11801, DIN EN 50173, IEC 61156-6, PROFInet Guidline, UL-Std. 444 (CMG), CSA-Std. C22.2 No. 214 - CMG, UL-Std. 13 (PLTC), UL-Std. 758 (AWM) Style 21694

Temperature range flexible -10°C to +70°C

fixed installation -20°C to

+70°C

UL (CMG) to +75°C UL (AWM) to +60°C

max. 60.0 Ohm/km

Peak operating voltage 125 V (not for high power current installation purposes)

2000 V

Test voltage core/core Conductor resistance at 20°C Loop resistance at 20°C Insulation resistance

max. 120.0 Ohm/km min. 0.5 GOhm x km Mutual capacitance core/core at 800 Hz, approx. 52 pF/m approx. 66%

Rel. Velocity of Propagation Characteristic impedance

at 1 to 100 MHz, 100 Ohm  $\pm$ 

15 Ohm

Caloric load Minimum bending radius approx. 0.85 MJ/m flexible 8x Outer-Ø

fixed installation 6x Outer-Ø

## CABLE STRUCTURE

- · Copper wire tinned, AWG sizes
- Core insulation: PE
- · Core identification: white, yellow, blue, orange
- Cores twisted into a star quad with optimal lay lengths
- Foil wrapping
- · Inner sheath: PVC

- 1. Screen: plastic-coated aluminium foil (St)
- 2. Screen: braided screen of tinned copper wires
- Outer sheath: PVC
- Sheath colour: green
- Length marking: in metres

#### PROPERTIES

- · resistant to: oil, UV radiation, weathering effects, microbes
- · abrasion-resistant, notch-resistant
- suitable for use in drag chains
- highly flame-retardant

#### TESTS

- flame-retardant acc. to CSA FT4
- bundle fire test acc. to DIN VDE 0482-332-3 / DIN EN 60332-3 / IEC 60332-3

### APPLICATION

HELUKAT® PROFInet C CAT.5e SF/UTP PVC CHAIN for use on moving parts and in cable carriers. The cable listed here correspond to the PROFInet classifications Type C for moving cables and is designed to withstand mechanical loads. Thanks to the flame retardent jacket the PVC cable has UL CMG PLTC FT4 AWM 600V approval.

#### NOTES

- · Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approximated and are for reference
- UL Voltage Rating: 600 V

#### 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/100m)	64.0	57.4	39.0	29.0

Part no.	No. cores x AWG-No.	Cross-sec. mm², approx.	Conductor Ø mm, approx.	Core Ø mm, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
802914	2 x 2 x AWG 22 /7	0.35	0.75	1.55	6.5	32.0	68.0

