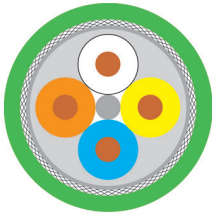


# HELUKAT® PROFINet A CAT.5e SF/UTP PVC STATIC PLTC-ER

PROFINet Type A, FastConnect (SK) capable, highly flame-retardant



## TECHNICAL DATA

Industrial Ethernet cable / Cat. 5e acc. to ISO/IEC 11801, DIN EN 50173, IEC 61156-5, PROFINet Guideline, UL-Std. 444 (CMG), CSA-Std. C22.2 No. 214 - CMG, UL-Std. 13 (PLTC)

Temperature range	fixed installation -40°C to +80°C during installation -5°C to +70°C
Peak operating voltage	125 V (not for high power current installation purposes)
Test voltage core/core	2000 V
Test voltage core/screen	2000 V
Conductor resistance at 20°C	max. 55.0 Ohm/km
Loop resistance at 20°C	max. 110.0 Ohm/km
Insulation resistance	min. 5.0 GOhm x km
Mutual capacitance core/core	at 800 Hz, approx. 50 pF/m
Rel. Velocity of Propagation	approx. 62%
Characteristic impedance	at 1 to 100 MHz, 100 Ohm ± 15 Ohm
Caloric load	approx. 0.91 MJ/m
Minimum bending radius	fixed installation 4x Outer-Ø

## CABLE STRUCTURE

- Copper conductor bare, AWG sizes
- Core insulation: PP
- Core identification: white, yellow, blue, orange
- Cores twisted into a star quad with optimal lay lengths

- Foil wrapping
- Inner sheath: thermoplastisches Spezial-Polymer
- 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
- highly flame-retardant

## TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- UV-resistant acc. to UL Std. 2556
- certifications and approvals: EAC

## APPLICATION

HELUKAT® PROFINET A CAT.5e SF/UTP PVC STATIC PLTC-ER complies with the PROFINET Type A classification for cables intended for permanent installation in industrial environments.

## NOTES

- Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approximated and are for reference only

## TYPICAL VALUES

Frequency (MHz)	4	10	16	62.5	100
Attenuation (dB/100m)	4.1	6.5	8.3	17.0	22.0
NEXT (dB)	56.3	50.3	47.2	38.4	35.3
ACR (dB/100m)	52.4	43.8	38.9	21.4	13.3

Part no.	No. cores x AWG-No.	Cross-sec. mm², approx.	Conductor Ø mm, approx.	Core Ø mm, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11018984	2 x 2 x AWG 22 / 1	0.32	0.64	1.5	6.5	32.0	67.0