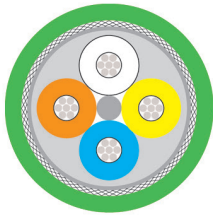


# HELUKAT® PROFinet B CAT.5e SF/UTP PVC FLEX

PROFinet Type B, 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 Guideline, UL-Std. 444 (CMG), CSA-Std. C22.2 No. 214 - CMG, UL-Std. 13 (PLTC), UL-Std. 758 (AWM) Style 21694

Temperature range	flexible -20°C to +60°C fixed installation -40°C to +80°C UL (CMG) to +75°C UL (AWM) to +60°C
Peak operating voltage	125 V (not for high power current installation purposes)
Test voltage core/core	2000 V
Conductor resistance at 20°C	max. 57.5 Ohm/km
Loop resistance at 20°C	max. 115.0 Ohm/km
Insulation resistance	min. 0.5 GOhm x km
Mutual capacitance core/core	at 800 Hz, approx. 48 pF/m
Rel. Velocity of Propagation	approx. 65%
Characteristic impedance	at 1 to 100 MHz, 100 Ohm ± 15 Ohm
Caloric load	approx. 0.96 MJ/m
Minimum bending radius	flexible 10x Outer-Ø fixed installation 5x Outer-Ø

- 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
- 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
- CPR class: Eca
- certifications and approvals: EAC

## APPLICATION

HELUKAT® PROFinet B CAT.5e SF/UTP PVC FLEX for use on moving parts. The cables listed here correspond to the PROFinet classifications Type B for moving cables and are designed to withstand mechanical loads.

## 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

## NOTES

- Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm<sup>2</sup>) are approximated and are for reference only
- 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. mm <sup>2</sup> , approx.	Conductor Ø mm, approx.	Core Ø mm, approx.	Outer-Ø min - max mm	Cu factor per km	Weight kg/km, approx.
800654	2 x 2 x AWG 22 / 7	0.35	0.75	1.5	6.3 - 6.7	32.0	67.0