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









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

flexible -20°C to +60°C Temperature range

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 min. 0.5 GOhm x km Insulation resistance 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 \pm

15 Ohm

Caloric load approx. 0.96 MJ/m Minimum bending radius flexible 10x Outer-Ø fixed installation 5x Outer-Ø Length marking: in metres

PROPERTIES

Outer sheath: PVC

Sheath colour: green

· resistant to: oil, UV radiation, weathering effects, microbes

• 1. Screen: plastic-coated aluminium foil (St)

2. Screen: braided screen of tinned copper wires

· 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: Fca.

APPLICATION

certifications and approvals: **EAC**

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 (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.
800654	2 x 2 x AWG 22 /7	0.35	0.75	1.5	6.5	32.0	67.0

