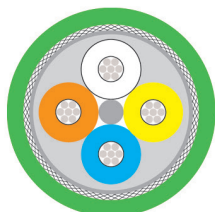


HELUKAT® PROFINet B CAT.5e PLTC-ER SF/UTP PVC FLEX



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-ER)

Temperature range	flexible -5°C to +70°C fixed -40°C to +80°C UL (CMG) to +75°C
Peak operating voltage	125 V (not for high power current installation purposes)
Test voltage	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. 5.0 GOhm x km
Mutual capacitance core/core	at 800 Hz, approx. 50 pF/m
Rel. Velocity of Propagation	approx. 67%
Characteristic impedance	at 1 to 100 MHz, 100 Ohm ± 15 Ohm
Minimum bending radius	flexible 8x Outer-Ø fixed 4x Outer-Ø

CABLE STRUCTURE

- Copper wire tinned, AWG sizes
- Core insulation: PP
- Core identification: white, yellow, blue, orange
- 4 cores twisted into a star quad with optimal lay lengths
- Foil wrapping
- Inner sheath: TPE

- 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 (SUN RES)
- flame-retardant

TESTS

- flame-retardant acc. to CSA FT4, DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- oil-resistant acc. to UL Oil Res I

APPLICATION

HELUKAT® PROFINET B CAT.5e PLTC-ER SF/UTP PVC FLEX for use in flexible applications. This cable conforms to the PROFINET Type B classification for flexible cable installations 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)	10	16	62.5	100
Attenuation (dB/100m)	6.3	8.0	16.5	21.3
NEXT (dB)	50.3	47.2	38.4	35.3
ACR (dB/100m)	44.0	39.2	21.9	14.0

Part no.	No. cores x AWG-No.	Cross-sec. mm², approx.	Core Ø mm, approx.	Outer-Ø min - max mm	Cu factor per km	Weight kg/km, approx.
11018959	2 x 2 x AWG 22 / 7	0.35	1.5	6.3 - 6.7	32.0	68.0