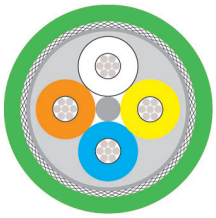
HELUKAT® PROFInet B CAT.5e SF/UTP FRNC FLEX Cca





TECHNICAL DATA

Industrial Ethernet cable acc. to DIN EN 50288-2-1, UL-Std. 444 (CMG), UL-Std. 13 (PLTC), UL-Std. 758 (AWM) Style 22375, CSA-Std. C22.2 No. 210 - AWM I A/B

Temperature range	flexible 0°C to +50°C fixed -40°C to +70°C
Peak operating voltage	80 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. 60.0 Ohm/km
Insulation resistance	min. 5.0 GOhm x km
Mutual capacitance core/core	at 800 Hz, approx. 48 pF/m
Rel. Velocity of Propagation	approx. 69%
Characteristic impedance	at 1 to 100 MHz, 100 Ohm ± 15 Ohm
Minimum bending radius	flexible 15x Outer-Ø fixed 6x Outer-Ø

CABLE STRUCTURE

- Copper wire tinned
- Core insulation: PE
- 4 cores twisted into a star quad with optimal lay lengths
- 1. Screen: plastic-coated aluminium foil (St)
  2. Screen: braided screen of tinned copper wires
- Outer sheath: halogen-free, flame retardant compound (FRNC)
- Sheath colour: green (RAL 6018)
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation
- halogen-free

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- flame-retardant acc. to CSA FT2, UL FT4
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404, IRM 902 4h at +70°C
- CPR class: C_{ca} s1a d2 a1
- Sunlight Resistance (SUN RES) acc. to UL Std. 1581 Sec. 1200

APPLICATION

HELUKAT® PROFINET B meets the fire performance class of Cca acc. to the European Construction Products Regulation (CPR), and its halogen-free, reduced flame propagation, and low-smoke characteristics make it suitable for use in buildings with high safety requirements.

NOTES

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

TYPICAL VALUES

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
Attenuation (dB/100m)	2.1	4.0	6.3	8.0	9.0	11.4	16.5	21.3
NEXT (dB)	65.3	56.3	50.3	47.2	45.8	42.9	38.4	35.3
PS-NEXT (dB)	62.3	53.3	47.3	44.2	42.8	39.9	35.4	32.3
ELFEXT (dB/100m)	64.0	52.0	44.0	40.0	38.0	34.0	28.0	24.0

Part no.	No. cores x AWG-No.	Cross-sec. mm², approx.	Conductor Ø mm, approx.	Core Ø mm, approx.	Outer-Ø min - max mm	Cu factor per km	Weight kg/km, approx.
11027770	2 x 2 x AWG 22 /7	0.35	0.75	1.5	6.3 - 6.7	33.4	71.0

11.05.2026 / We reserve the right to make technical changes; the imprint in the image is purely exemplary