HELUKAT® 100IND CAT.5 SF/UTP FRNC STATIC

flame-retardant, low smoke

TECHNICAL DATA

Industrial Ethernet cable / Cat. 5 acc. to ISO/IEC 11801, DIN EN 50173, IEC 61156-2, DIN EN 50288-2-1

Temperature range	fixed installation -25°C to +80°C during installation -5°C to +60°C
Peak operating voltage	125 V (not for high power current installation purposes)
Test voltage core/core	1000 V
Conductor resistance at 20°C	max. 96.0 Ohm/km
Loop resistance at 20°C	max. 192.0 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. 70%
Characteristic impedance	at 1 to 100 MHz, 100 Ohm ± 15 Ohm
Caloric load	approx. 0.43 MJ/m
Minimum bending radius	during installation 15x Outer-Ø fixed installation 8x Outer-Ø

CABLE STRUCTURE

- Copper conductor bare, AWG sizes
- Core insulation: Foam PE
- Core identification: colour coded, pairs:
  No. 1: white-orange / orange
  No. 2: white-green / green
- Cores stranded in pairs with optimal lay lengths
- Foil wrapping
- Pairs stranded 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: blue
- Length marking: in metres

PROPERTIES

- halogen-free
- flame-retardant, low smoke development

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

APPLICATION

HELUKAT® 100IND CAT.5 SF/UTP FRNC STATIC for fixed installation indoor in halogen free and flame retardent edition.

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)	5.7	7.1	14.2	18.3
NEXT (dB)	57.0	54.0	45.0	42.0
ACR (dB/100m)	51.3	46.9	30.8	23.7

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.
805699	2 x 2 x AWG 24 /1	0.20	0.51	1.03	5.4 - 5.8	22.0	45.0

11.08.2025 / We reserve the right to make technical changes; the imprint in the image is purely exemplary