

HELUKAT® 300LAN CAT.6 U/UTP FRNC STATIC

flame-retardant, low smoke



TECHNICAL DATA

LAN cable / Cat. 6 acc. to ISO/IEC 11801, DIN EN 50173, IEC 61156-5, EN 50288-6-1

Temperature range	fixed installation -20°C to +60°C during installation 0°C to +50°C
Peak operating voltage	125 V (not for high power current installation purposes)
Conductor resistance at 20°C	max. 95.0 Ohm/km
Loop resistance at 20°C	max. 190.0 Ohm/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 at 101 to 300 MHz, 100 Ohm ± 20 Ohm
Caloric load	approx. 0.13 MJ/m
Minimum bending radius	during installation 8x Outer-Ø fixed installation 4x Outer-Ø

- Outer sheath: halogen-free, flame retardant compound (FRNC)
- Sheath colour: green (RAL 6018)
- Length marking: in metres

PROPERTIES

- halogen-free
- flame-retardant

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
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- CPR class: D_{ca}

APPLICATION

Data cable for structured cabling systems with generous headroom and outstanding performance, for use in the tertiary and secondary areas of networks. Its special mechanical properties and optimised construction allow for easy installation.

NOTES

- Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approximated and are for reference only

CABLE STRUCTURE

- Copper conductor bare, AWG sizes
- Core insulation: PE
- Core identification: colour coded, pairs:
 - No. 1: white-blue / blue
 - No. 2: white-orange / orange
 - No. 3: white-green / green
 - No. 4: white-brown / brown
- Cores stranded in pairs with optimal lay lengths
- Separator
- Foil wrapping

TYPICAL VALUES

	10	16	62.5	100	155	200	300
Frequency (MHz)							
Attenuation (dB/100m)	5.6	7.0	14.3	18.2	22.9	26.0	32.5
NEXT (dB)	72.0	70.0	65.0	63.0	60.0	57.0	55.0
ACR (dB/100m)	66.4	63.0	50.7	44.8	37.1	31.0	22.5

Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Conductor Ø mm, approx.	Core Ø mm, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
804766	4 x 2 x AWG 24 / 1	0.24	0.55	0.98	6.8	20.0	46.0