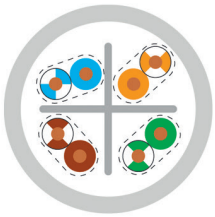
HELUKAT® 600LAN CAT.6$_A$ U/UTP FRNC STATIC

flame-retardant, low smoke





TECHNICAL DATA

LAN cable / Cat. 6$_A$ acc. to ISO/IEC 11801, DIN EN 50173, IEC 61156-5, EN 50288-11-1, UL-Std. 444 (CMX), CSA-Std. C22.2 No. 214 - CMX

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. 75.0 Ohm/km
Loop resistance at 20°C	max. 150.0 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 600 MHz, 100 Ohm ± 20 Ohm
Caloric load	approx. 0.14 MJ/m
Minimum bending radius	flexible 4x Outer-Ø during installation 8x Outer-Ø fixed installation 4x Outer-Ø

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
- Outer sheath: halogen-free, flame retardant compound (FRNC)
- Sheath colour: grey (RAL 7035)
- 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: E_{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

TYPICAL VALUES

Frequency (MHz)	10	16	62.5	100	155	200	300	500	600
Attenuation (dB/100m)	5.5	6.9	14.3	18.0	22.1	25.3	31.8	39.8	44.1
NEXT (dB)	72.0	70.0	65.0	63.0	60.0	57.0	55.0	53.0	49.0
ACR (dB/100m)	66.5	63.1	50.7	45.0	37.9	31.7	23.2	13.2	4.9

Part no.	No. cores x AWG-No.	Cross-sec. mm², approx.	Conductor Ø mm, approx.	Core Ø mm, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
805179	4 x 2 x AWG 23 /1	0.26	0.57	1.0	6.5	20.0	52.0

21.05.2026 / We reserve the right to make technical changes; the imprint in the image is purely exemplary