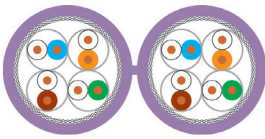


HELUKAT® 600LAN CAT.7e S/FTP DUPLEX FRNC STATIC



CC-Link IE Field certified, performance up to 1000 MHz, flame-retardant, low smoke



HELUKAT® 600LAN CAT.7e S/FTP DUPLEX FRNC STATIC

TECHNICAL DATA

LAN cable / Cat. 7e acc. to ISO/IEC 11801, DIN EN 50173, IEC 61156-5, DIN EN 50288-4-1

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)
Test voltage	700 V
Conductor resistance at 20°C	max. 77.0 Ohm/km
Loop resistance at 20°C	max. 154.0 Ohm/km
Mutual capacitance core/core	at 800 Hz, approx. 48 pF/m
Rel. Velocity of Propagation	approx. 79%
Characteristic impedance	at 1 to 100 MHz, 100 Ohm ± 15 Ohm at 101 to 1000 MHz, 100 Ohm ± 20 Ohm
Caloric load	approx. 1.14 MJ/m
Minimum bending radius	null 4x null null 8x null

- Outer sheath: halogen-free, flame retardant compound (FRNC)
- 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
- bundle fire test acc. to DIN VDE 0482-332-3 / DIN EN 60332-3 / IEC 60332-3
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- CPR class: D_{ca}
- certifications and approvals: CC-Link IE

CABLE STRUCTURE

- Copper conductor bare, AWG sizes
- Core insulation: Foam PE
- Core identification: colour coded, pairs:
 - No. 1: white / blue
 - No. 2: white / orange
 - No. 3: white / green
 - No. 4: white / brown
- Cores stranded in pairs with optimal lay lengths
- Screening element: pairs, plastic-coated aluminium foil (St)
- Screen: braided screen of tinned copper wires

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	200	300	600	900	1000
Attenuation (dB/100m)	5.6	7.1	13.9	17.5	25.2	32.1	44.9	55.0	58.0
NEXT (dB)	100.0	100.0	96.0	94.0	88.0	84.0	73.0	71.0	69.0
ACR (dB/100m)	94.4	92.9	82.1	76.5	62.8	51.9	28.1	16.0	9.0

Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Sheath colour	Conductor Ø mm, approx.	Core Ø mm, approx.	Cable height mm	Cable width mm	Cu factor per km	Weight kg/km, approx.
81446	2 x 4 x 2 x AWG 23 / 1	0.26	violet (RAL 4005)	0.57	1.4	7.3	14.8	56.0	110.0
803898	2 x 4 x 2 x AWG 23 / 1	0.26	orange (RAL 2003)	0.57	1.4	7.3	14.8	56.0	110.0

03.02.2026 / We reserve the right to make technical changes; the imprint in the image is purely exemplary