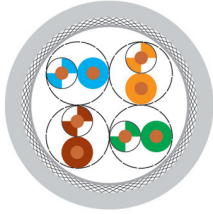


HELUKAT® 200 CAT.5e SF/UTP PVC STATIC



HELUKAT® 200 SF/UTP PVC

TECHNICAL DATA

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

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. 74%
Characteristic impedance	at 1 to 100 MHz, 100 Ohm ± 5 Ohm at 101 to 200 MHz, 100 Ohm ± 20 Ohm
Caloric load	approx. 0.60 MJ/m
Minimum bending radius	during installation 8x Outer-Ø fixed installation 4x Outer-Ø

CABLE STRUCTURE

- Copper conductor bare, AWG sizes
- Core insulation: Foam 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

- 1. Screen: plastic-coated aluminium foil (St)
- 2. Screen: braided screen of tinned copper wires
- Outer sheath: PVC
- Sheath colour: grey (RAL 7035)
- Length marking: in metres

PROPERTIES

- flame-retardant

TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- CPR class: E_{ca}
- certifications and approvals:
 - CC-Link IE

APPLICATION

HELUKAT® 200 CAT.5e SF/UTP PVC STATIC data cables are used in the tertiary, but also in the secondary level of a network. They are characterized by large performance reserves and outstanding performance. They can be used to implement services such as Gigabit Ethernet, Fast Ethernet, Ethernet, ATM155, FDDI, token ring 4/16 Mbit/s, or ISDN absolutely trouble-free. Likewise, the mechanical characteristics are perfectly suited for the application in tight cable channels and platforms due to their optimized construction.

TYPICAL VALUES

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100	155	200
Attenuation (dB/100m)	1.9	3.7	5.6	7.2	8.1	10.3	14.4	18.2	19.9	24.2
NEXT (dB)	80.0	75.0	70.0	68.0	65.0	60.0	56.0	50.0	45.0	42.0
ACR (dB/100m)	78.1	71.3	64.4	60.8	56.9	49.7	41.6	31.8	25.1	17.8

Part no.	No. cores x AWG-No.	Conductor Ø mm, approx.	Core Ø mm, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
81610	4 x 2 x AWG 24 / 1	0.51	1.04	6.4	28.0	50.0