LAN Cable

Category 6





Cable structure

Inner conductor Ø: Conductor material: Core insulation: Core colours: Separator:

Screen over stranding element: Screen 1 over stranding: Screen 2 over stranding: Outer sheath material: Outer diameter: Outer sheath colour:

Electrical data

Characteristic impedance:

Loop resistance: Mutual capacitance: Rel. propagation velocity:

HELUKAT® 300 U/UTP

U/UTP 4x2xAWG 24/1 FRNC

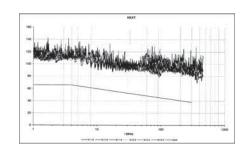
0,55 mm Copper, bare

whbu/bu, whog/og, whgn/gn, whbn/bn Polyester foil over stranded bundle

FRNC

app. 6,8 mm

Green similar to RAL 6018



100 Ohm ± 15 Ohm at 1 to 100 MHz 100 Ohm ± 20 Ohm at 101 to 300 MHz 190 Ohm/km max.

50 nF/km nom.

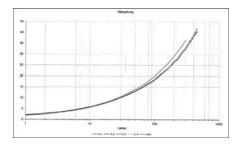
67 %

Typical values

Frequency	(MHz)	10	16	62,5	100	155	200	300
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	(dh)	66.4	63.0	50.7	44 8	37 1	31.0	22.5

Technical data

Weight: app. 46 kg/km bending radius, repeated: 55 mm Operating temperature range min.: -20°C +60°C Operating temperature range max.: Caloric load, approx. value: 0,125 MJ/m Copper weight: 20,00 kg/km



Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 6, Flame-retardant acc. to IEC 60332-1-2, Smoke density acc. to IEC 61034, Halogen-free acc. to 60754-2, Corrosiveness acc. to EN50267-2-3

Application

HELUKAT®300 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.

Part no.

804766, U/UTP 4x2xAWG24/1 FRNC (UTP)

Dimensions and specifications may be changed without prior notice.