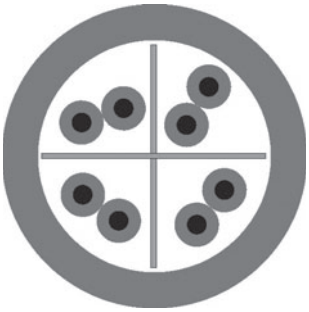
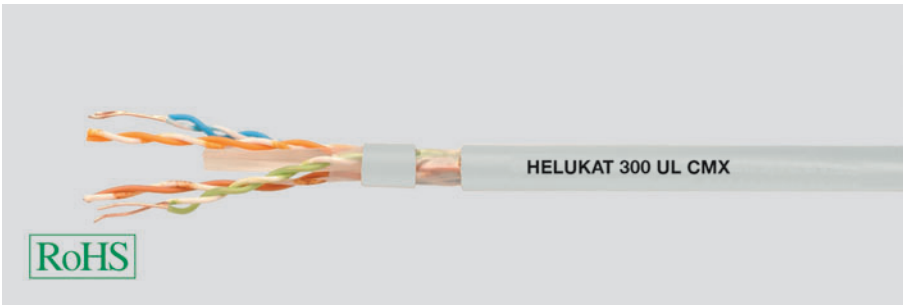
LAN Cable

Category 6

HELUKAT® 300

UTP UL

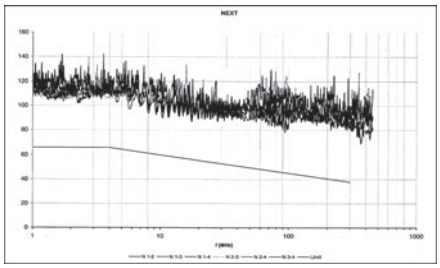




Cable structure

UTP 4x2xAWG 24/1 PVC, UL

Inner conductor diameter:	0,55 mm
Conductor material:	Copper, bare
Core insulation:	PE
Core colours:	whbu/bu, whog/og, whgn/gn, whbn/bn
Shielding 1:	-
Screen over stranding element:	-
Screen 1 over stranding:	-
Screen 2 over stranding:	-
Outer sheath material:	PVC
Outer diameter:	approx. 6,8 mm
Outer sheath colour:	Grey



Electrical data

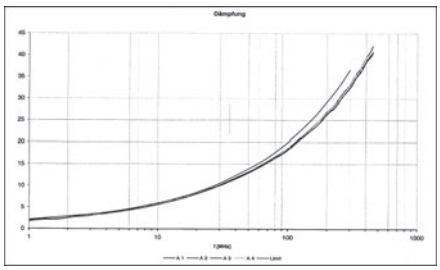
Characteristic impedance:	100 Ohm ± 20 ohm at 101 to 155 MHz
Loop resistance:	190 Ohm/km max.
Mutual capacitance:	50 nF/km nom.
Rel. propagation velocity:	67 %

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	(db)	66,4	63,0	50,7	44,8	37,1	31,0	22,5

Technical data

Weight:	approx. 46 kg/km
Min. bending radius for laying:	55 mm
Operating temperature range min.:	-20°C
Operating temperature range max.:	+60°C
Caloric load, approx. value:	0,68 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, Smoke density acc. to IEC 61034, CMX 444

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. This type is certified according UL because of the special PVC jacket.

R

Part no.

802172, UTP 4x2xAWG24/1 PVC UL (U/UTP)

Dimensions and specifications may be changed without prior notice.

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