

# LAN-Cable

Category 6

**HELUKAT® 300**

U/UTP flex



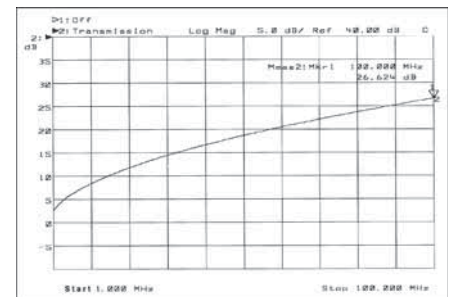
## Cable structure

Inner conductor Ø:	0,61 mm
Conductor material:	Copper, bare
Core insulation:	PE
Core colours:	whbu/bu, whog/og, whgn/gn, whbn/bn
Separator:	Polyester foil over stranded bundle
Screen over stranding element:	-
Screen 1 over stranding:	-
Screen 2 over stranding:	-
Outer sheath material:	FRNC
Outer diameter:	app. 6,0 mm
Outer sheath colour:	Grey similar to RAL 7035

## U/UTP 4x2xAWG 24/7 FRNC

## Electrical data

Characteristic impedance:	100 Ohm ± 15 Ohm at 1 to 100 MHz 100 Ohm ± 20 Ohm at 101 to 300 MHz
Loop resistance:	180 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/10m)	0,8	1,0	2,0	2,6	3,3	3,7	4,7
Next (db)	75,0	71,0	65,0	63,0	60,0	57,0	56,0
ACR (db)	74,2	70,0	63,0	60,4	56,7	53,2	51,3

## Technical data

Weight:	app. 38 kg/km
bending radius, repeated:	50 mm
Operating temperature range min.:	-20°C
Operating temperature range max.:	+60°C
Caloric load, approx. value:	0,11 MJ/m
Copper weight:	19,00 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 unshielded 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. With its optimized construction, the HELUKAT®300 series can be manufactured quickly and easily with many common RJ45 plugs.

## Part no.

**804996**, U/UTP 4x2xAWG 24/7 FRNC (UTP)

Dimensions and specifications may be changed without prior notice.

