

# LAN-Cable, Outdoor

Category 6

**HELUKAT® 300A**

U/UTP, outdoor



## Cable structure

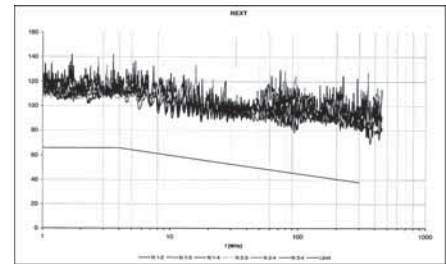
Inner conductor Ø:  
Conductor material:  
Core insulation:  
Core colours:  
Separator:  
Screen over stranding element:  
Screen 1 over stranding:  
Screen 2 over stranding:  
Outer sheath material:  
Outer diameter:  
Outer sheath colour:

## U/UTP 4x2xAWG 24/ 1 PE

0,55 mm  
Copper, bare  
PE  
whbu/bu, whog/og, whgn/gn, whbn/bn  
Polyester foil over stranded bundle  
-  
-  
PE  
app. 6,4 mm  
Black similar to RAL 9005

## Electrical data

Characteristic impedance: 100 Ohm ± 15 Ohm at 1 to 100 MHz  
100 Ohm ± 20 Ohm at 101 to 300 MHz  
Loop resistance: 190 Ohm/km max.  
Mutual capacitance: 50 nF/km nom.  
Rel. propagation velocity: 67 %

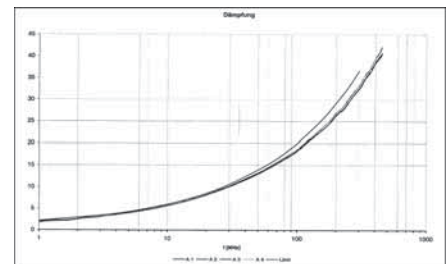


## Typical values

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: app. 47 kg/km  
bending radius, repeated: 52 mm  
Operating temperature range min.: -20°C  
Operating temperature range max.: +60°C  
Caloric load, approx. value: 0,30 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, Halogen-free acc. to 60754-2

## Application

HELUKAT® 300A outdoor data cables are used in the tertiary 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 ducts or along buildings due to their optimized construction.

## Part no.

**805683**, U/UTP 4x2xAWG24/1 PE (UTP)

Dimensions and specifications may be changed without prior notice.

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