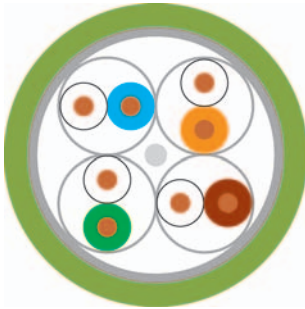


# LAN Cable

Category 6

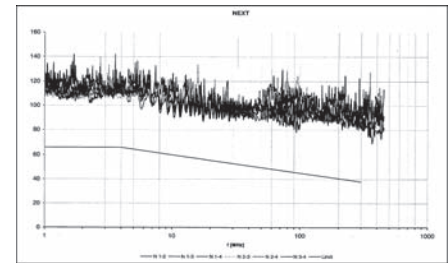
**HELUKAT® 450**  
F/FTP

## Cable structure

Inner conductor Ø: 0,52 mm  
 Conductor material: Copper, bare  
 Core insulation: Foam-skin-PE  
 Core colours: wh/bu, wh/og, wh/gn, wh/bn  
 Shielding 1: -  
 Screen over stranding element: Polyester foil, aluminium-lined  
 Screen 1 over stranding: Polyester foil, aluminium-lined  
 Screen 2 over stranding: -  
 Drain wire: yes  
 Outer sheath material: FRNC  
 Outer diameter: app. 7,4 mm  
 Outer sheath colour: Green similar to RAL 6018

## F/FTP 4x2xAWG 24/1 FRNC

0,52 mm  
 Copper, bare  
 Foam-skin-PE  
 wh/bu, wh/og, wh/gn, wh/bn  
 -  
 Polyester foil, aluminium-lined  
 Polyester foil, aluminium-lined  
 -  
 yes  
 FRNC  
 app. 7,4 mm  
 Green similar to RAL 6018



## Electrical data

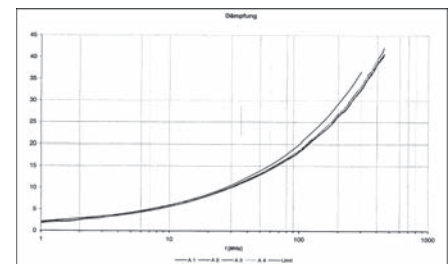
Characteristic impedance: 100 Ohm ± 15 ohm at 1 to 100 MHz  
 100 Ohm ± 20 ohm at 101 to 450 MHz  
 Loop resistance: 165 Ohm/km max.  
 Mutual capacitance: 43 nF/km nom.  
 Rel. propagation velocity: 79 %

## Typical values

Frequency (MHz)	10	16	62,5	100	200	300	450
Attenuation (dB/100m)	5,4	7,0	13,8	17,6	26,0	34,0	38,5
Next (db)	100,0	100,0	95,8	94,5	91,0	87,0	84,3
ACR (db)	94,6	93,0	82,0	76,9	65,0	53,0	45,8

## Technical data

Weight: app. 50 kg/km  
 bending radius, repeated: 59 mm  
 Operating temperature range min.: -20°C  
 Operating temperature range max.: +60°C  
 Caloric load, approx. value: 0,57 MJ/m  
 Copper weight: 24,00 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 60332-3, Smoke density acc. to IEC 61034, Halogen-free acc. to 60754-2, Corrosiveness acc. to EN50267-2-3

## Application

HELUKAT®450 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.

**82501**, F/FTP 4x2xAWG 24/1 FRNC (S-STP)

Dimensions and specifications may be changed without prior notice.