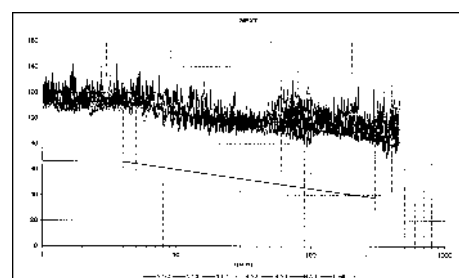


## Cable structure

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

## S-STP 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  
-  
FRNC  
approx. 7,4 mm  
Green similar to RAL 6018



## Electrical data

Characteristic impedance:  
Loop resistance:  
Mutual capacitance:  
Rel. propagation velocity:

100 Ohm  $\pm$  15 ohm at 1 to 100 MHz  
100 Ohm  $\pm$  20 ohm at 101 to 450 MHz  
146 Ohm/km max.  
43,0 nF/km nom.  
79 %

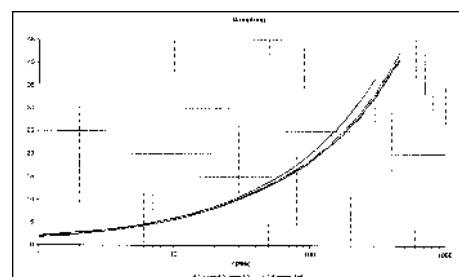
## Typical values

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:  
Min. bending radius for laying:  
Operating temperature range min.:  
Operating temperature range max.:  
Caloric load, approx. value:  
Copper value:

50,0 kg/km  
59 mm  
-20°C  
+60°C  
0,57 MJ/m  
22,0 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**, S-STP 4x2xAWG 24/1 FRNC