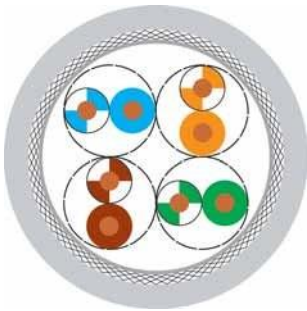


# LAN Cable

Category 5e

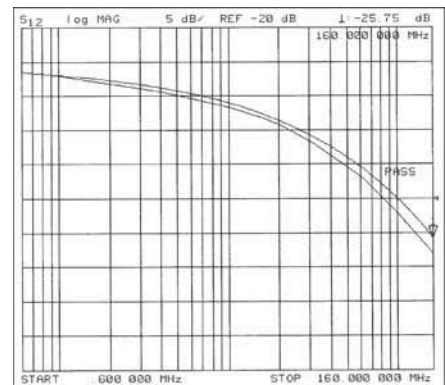


## Cable structure

Inner conductor Ø: 0,51 mm  
 Conductor material: Copper, bare  
 Core insulation: Foam-skin-PE  
 Core colours: whbu/bu, whog/og, whgn/gn, whbn/bn  
 Separator: -  
 Screen over stranding element: Al-Foil  
 Screen 1 over stranding: Cubraid  
 Screen 2 over stranding: PVC/ FRNC  
 Outer sheath material: app. 6,0 mm / app. 6,0 mm  
 Outer diameter: Grey similar to RAL 7035  
 Outer sheath colour:

## Electrical data

Characteristic impedance: 100 Ohm ± 15 Ohm at 1 to 100 MHz  
 100 Ohm ± 20 Ohm at 101 to 200 MHz  
 Loop resistance: 185 Ohm/km  
 Mutual capacitance: max.  
 Rel. propagation velocity: 48 nF/km nom.  
 74 %



## Typical values

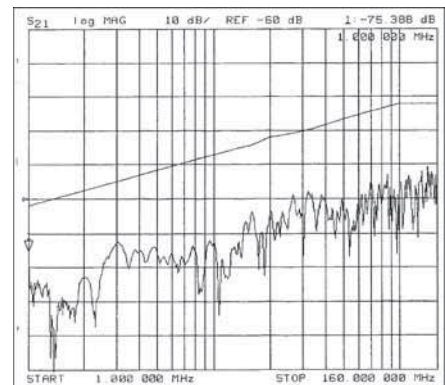
Frequency (MHz)	10	16	62,5	100	200
Attenuation (dB/100m)	5,6	7,2	14,4	18,2	25,9
Next (db)	62,0	59,0	50,0	46,0	40,0
ACR (db)	56,4	51,8	35,6	27,8	14,6

## Technical data

Weight: app. 50 kg/km  
 bending radius, repeated: 52 mm  
 Operating temperature range min.: -20°C  
 Operating temperature range max.: +60°C  
 Caloric load, approx. value: 0,60 MJ/m / 0,48 MJ/m  
 Copper weight: 28,00 kg/km

## Norms

81610:  
 Acc. to ISO/IEC 11801, Acc. to EN50173, Acc. to EIA/TIA 568-A, Category 5e  
 81609:  
 Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5e, 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®200 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.

81610, SF/UTP 4x2xAWG 24/1 PVC (S-FTP) 81609, SF/UTP 4x2xAWG 24/1 FRNC (S-FTP)

Dimensions and specifications may be changed without prior notice.