

new

## Cable structure

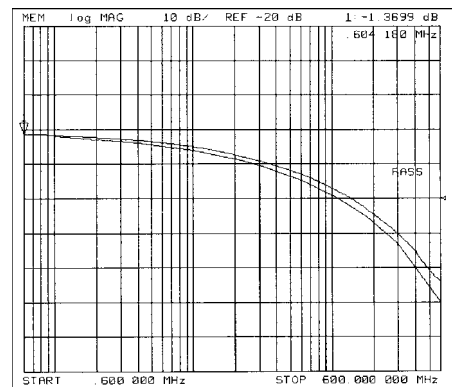
Inner conductor diameter:  
 Conductor material:  
 Core insulation:  
 Core colours:  
 Shielding 1  
 Screen over stranding element:  
 Screen 1 over stranding:  
 Screen 2 over stranding:  
 Outer sheath material:  
 Outer Ø  
 Outer sheath colour:

## S-STP 4x2xAWG 22/1 FRNC

0,64 mm  
 Copper, bare  
 Foam-skin-PE  
 wh/bu, wh/og, wh/gn, wh/bn  
 -  
 Polyester foil, aluminium-lined  
 Cu braid  
 -  
 FRNC  
 approx. 8,6 mm  
 Yellow similar to RAL 1021

## Electrical data

Characteristic impedance: 100 Ohm ± 15 ohm at 1 to 100 MHz  
 100 Ohm ± 20 ohm at 101 to 1200 MHz  
 Loop resistance: 120 Ohm/km max.  
 Mutual capacitance: 42,00 nF/km nom.  
 Rel. propagation velocity: 80 %



## Typical values

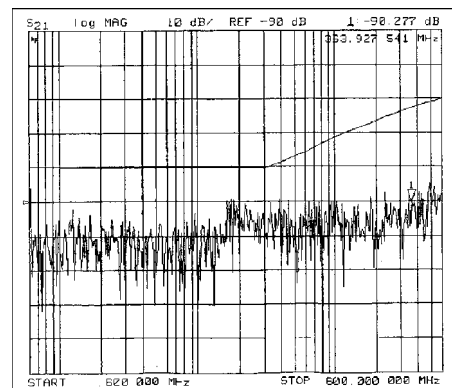
Frequency (MHz)	10	16	62,5	100	200	300	600	1000	1200	1500
Attenuation (db/100m)	4,2	6,3	12,7	14,4	21,5	27,5	37,7	49,0	54,9	62,0
Next (db)	110,0	110,0	110,0	110,0	110,0	105,0	100,0	92,0	88,0	73,0
ACR (db)	106,0	103,7	97,3	95,6	88,5	77,5	62,3	43,0	33,1	11,0

## Technical data

Weight: 80,00 kg/km  
 Min. bending radius for laying: 68 mm  
 Operating temperature range min.: -20°C  
 Operating temperature range max.: +60°C  
 Caloric load, approx. value: 0,74 MJ/m  
 Copper weight: 53,00 kg/km

## Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 8,  
 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®1500 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 10Gigabit Ethernet, Gigabit Ethernet, Fast Ethernet, Ethernet, ATM155, FDDI, token ring 4/16 Mbit/s or ISDN absolutely trouble-free. That means applications such as multimedia (TV, Video, Data, Speech) are no problem for this series. Likewise, the mechanical characteristics are perfectly suited for the application in tight cable channels and platforms due to their optimized construction.

## Part no.

**802169**, S-STP 4x2xAWG 22/1 FRNC

Dimensions and specifications may be changed without prior notice.