

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:

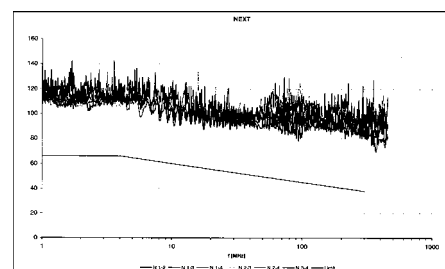
S-STP 4x2xAWG 24/1 FRNC

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 ± 15 ohm at 1 to 100 MHz
 100 Ohm ± 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: 50,00 kg/km
 Min. bending radius for laying: 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, S-STP 4x2xAWG 24/1 FRNC

Dimensions and specifications may be changed without prior notice.

