

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 23/1 FRNC

0,60 mm
Copper, bare
PO
wh/bu, wh/og, wh/gn, wh/bn
-
Polyester foil, aluminium-lined
Cu braid
-
FRNC
approx. 8,1 mm
Blue Lilac similar to RAL 4005

Electrical data

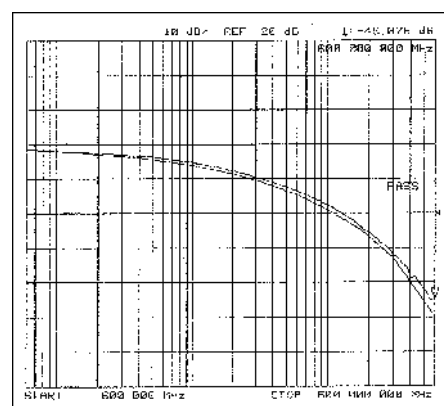
Characteristic impedance:

100 Ohm \pm 15 ohm at 1 to 100 MHz
100 Ohm \pm 20 ohm at 101 to 600 MHz
150 Ohm/km max.
45,00 nF/km nom.
79 %

Loop resistance:

Mutual capacitance:

Rel. propagation velocity:



Typical values

Frequency (MHz)	10	16	62,5	100	200	300	600	650
Attenuation (dB/100m)	5,9	7,4	14,9	19,0	27,5	34,2	50,1	52,4
Next (db)	85,0	85,0	85,0	85,0	83,0	80,0	80,0	80,0
ACR (db)	79,1	77,6	70,1	66,0	55,5	45,8	29,9	27,6

Technical data

Weight: 73,0 kg/km
Min. bending radius for laying: 81 mm
Operating temperature range min.: -30°C
Operating temperature range max.: +70°C
Caloric load, approx. value: 0,89 MJ/m
Copper value: 40,0 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 7,
Flame-retardant acc. to IEC 60332-1, Smoke density acc. to IEC 61034,
Halogen-free acc. to 60754-2, Corrosiveness acc. to EN50267-2-3,
Oil-resistant

Application

HELUKAT® 10GIGA data cables are used in the backbone area (vertical and campus cabling) of a network. They are characterized by large performance reserves and outstanding performance. With this serie first time you can realize 10Gigabit Ethernet over a copper cable at a transmission distance of maximum 100m. Of course it also 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.

Part no.

801083, S-STP 4x2xAWG 23/1 FRNC

