

Industrial Ethernet

Drag Chain

HELUKAT® 250S

SF/UTP, Category 6



Type

Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Shielding 1:
Inner sheath material:
Shielding 2:
Total shielding:
Outer sheath material:
Cable external diameter:
Outer sheath colour:

Drag chain applications

SF/UTP 4x2x0.15 mm² (stranded) PUR

Copper, tinned (AWG 26/19)
PP
whbu/bu, whog/og, whgn/gn, whbn/bn
Double core
-
FRNC
-
Foil + braid
PUR
approx. 7,8 mm ± 0,3 mm
Green similar to RAL 6018

Electrical data

Characteristic impedance:

100 Ohm ± 15 ohm at 1 to 100 MHz
100 Ohm ± 20 ohm bei 101 bis 250 MHz

Conductor resistance, max.:

140 Ohm/km

Insulation resistance, min.:

0,5 GOhm x km

Loop resistance:

280 Ohm/km max.

Mutual capacitance:

52 nF/km nom.

Test voltage:

0,7 kV

Relative propagation velocity:

67 %

Typical values

Frequency	(MHz)	10	16	62,5	100	250
Attenuation	(db/10m)	0,9	1,2	2,4	2,9	4,9
Next	(db)	59,3	56,2	47,4	44,3	38,3
ACR	(db)	58,4	55,0	45,0	41,4	33,4

Technical data

Weight: approx. 63 kg/km
bending radius, repeated: 60 mm
Operating temperature range min.: -30°C
Operating temperature range max.: +70°C
Caloric load, approx. value: 1,35 MJ/m
Copper weight: 34,00 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 60332-1, UL 1581, Sec. 1080 (VW-1) and Sec. 1060 (FT-1)

Application

This copper data cable, designed specifically for extreme industrial applications, is the ideal solution for Ethernet Category 6 applications. Superior transmission properties, suitable for use even under the most demanding conditions, designed for use in drag chains, fire-proof and oil-resistant according to UL/CSA, the cable can also be used in the USA and Canada.

Part no.

803387, INDUSTRIAL ETHERNET CAT.6

Dimensions and specifications may be changed without prior notice.