

Industrial Ethernet

Drag Chain PUR

HELUKAT® 250S

SF/UTP, Category 6



Type

Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Separator:
Inner sheath material:
Shielding 1:
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
-
AL-Foil + braid
PUR
app. 7,8 mm ± 0,2 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.: 5 GOhm x km
Loop resistance: 280 Ohm/km max.
Mutual capacitance: 50 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)	60,3	57,2	48,4	45,3	39,3
ACR (db)	59,4	56,0	46,0	42,4	34,4

Technical data

Weight: app. 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 60332-1-2, Halogen-free acc. to 60754-1, CMX 75°C (shielded) or AWM 21576 1000V

Application

HELUKAT® 250S trailing cable Category 6 is designed for use in cable carriers and the recurring loads caused by moving machine components. It provides excellent transmission characteristics under extremely difficult conditions.

Part no.

803387, INDUSTRIAL ETHERNET CAT.6

Dimensions and specifications may be changed without prior notice.