

Industrial Ethernet

PROFInet Drag Chain PVC + PUR

SF/FTP, Category 6_A

HELUKAT® 500S



Type Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Screen over stranding element:
Separator:
Total shielding:
Outer sheath material:
Cable external diameter:
Outer sheath colour:

Drag chain applications SF/FTP 4x2xAWG 24/7

Copper, tinned (AWG 24/7)
Foam-skin-PE
wh/bu, wh/og, wh/gn, wh/bn
Double core
Al-Foil
-
conductive fleece + braid
PVC
app. 8,7 mm ± 0,3 mm
Green similar to RAL 6018

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Electrical data

Characteristic impedance:

100 Ohm ± 15 Ohm at 1 to 100 MHz
100 Ohm ± 20 Ohm at 101 to 500 MHz

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Insulation resistance, min.:

5 GOhm x km

5 GOhm x km

Mutual capacitance:

50 nF/km nom.

50 nF/km nom.

Test voltage:

0,7 kV

0,7 kV

Relative propagation velocity:

67 %

67 %

Typical values

frequency (MHz)		10	16	62,5	100	200	300	500
attenuation (db/100m)		6,8	8,6	17,7	22,1	31,7	39,2	51,5
next (dB)		>80	>80	>80	>80	>80	>80	>70

Technical data

Weight:
bending radius, repeated:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx. value:
Copper weight:

app. 88 kg/km
135 mm
- 10°C
+70°C
1,69 MJ/m
44,00 kg/km

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Norms

Applicable standards:

Cat.6A norms acc. EN 50288 up to 500 MHz,
IEC 61156-5
Acc. to ISO/IEC 11801
Acc. to EN 50173
Acc. to EIA/TIA 568-A
Category 6_A
Flame-retardant CSA FT4

Cat.6A norms acc. EN 50288 up to 500 MHz,
IEC 61156-5
Acc. to ISO/IEC 11801
Acc. to EN 50173
Acc. to EIA/TIA 568-A
Category 6_A
Halogen-free acc. to 60754-1
Flame-retardant CSA FT1
CMX 75°C (shielded) or AWM 21576 1000V
CSA FT1

UL Style:

CM 750C (shielded)

CSA standard:

CSA FT 4

Application

HELUKAT® 500S was designed specially for flexible applications in drag chains in extreme industrial environments. The copper data cable is especially well-suited for Category 6_A Ethernet applications. It guarantees excellent transmission characteristics and may be used even under the harshest conditions.

The PVC version has UL CM listing; the PUR version UL CMX listing and is additional halogen free

Part no.

805704, INDUSTRIAL ETHERNET KAT.6A
10GIG PVC

805703, INDUSTRIAL ETHERNET KAT.6A
10GIG PUR

Dimensions and specifications may be changed without prior notice.

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