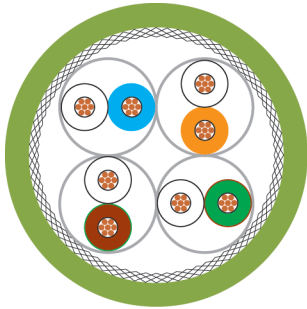


Industrial Ethernet

Drag Chain PVC + PUR

HELUKAT® 500S

SF/FTP, Category 6A



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
-
AL-Foil + 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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100 Ohm ± 20 Ohm at 101 to 500 MHz

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: app. 88 kg/km
bending radius, repeated: 135 mm
Operating temperature range min.: -10°C
Operating temperature range max.: +70°C
Caloric load, approx. value: 1,69 MJ/m
Copper weight: 44,00 kg/km

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

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 6A, CM 75°C (shielded)

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 6A 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.