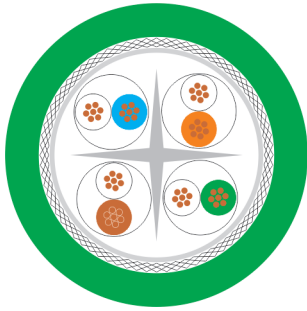


# Industrial Ethernet

**Drag Chain PVC + PUR SF/FTP, Category 6A**  
**4x2xAWG24/7 PVC**

**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  
-  
conductive fleece + braid  
PVC  
app. 8,7 mm ± 0,3 mm  
Green similar to RAL 6018

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## Electrical data

Characteristic impedance:

Insulation resistance, min.:

Mutual capacitance:

Test voltage:

Relative propagation velocity:

100 Ohm ± 15 Ohm at 1 to 100 MHz  
100 Ohm ± 20 Ohm at 101 to 500 MHz  
5 GOhm x km  
50 nF/km nom.  
0,7 kV  
75 %

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## Typical values

frequency	(MHz)	10	16	62,5	100	200	300	500
attenuation	(db/100m)	6,6	8,4	17,3	22,0	31,4	38,9	51,2
next	(dB)	72,8	73,0	74,1	74,4	74,4	72,7	69,2

## 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  
+60°C  
1,69 MJ/m  
44,00 kg/km

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## Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 6A, CMX 75°C (shielded) or AWM 21576 1000V

## 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.