

# Industrial Ethernet

Drag Chain

**HELUKAT® 500S**

SF/FTP, Category 6A



## Cable structure

Inner conductor Ø:	0,55 mm
Conductor material:	Copper, tinned
Core insulation:	Foam-skin-PE
Core colours:	wh/bu, wh/og, wh/gn, wh/bn
Separator:	-
Screen over stranding element:	Al-Foil
Total shielding:	AL-Foil + braid
Outer sheath material:	PUR
Outer diameter:	app. 7,8 mm
Outer sheath colour:	Green similar to RAL 6018

## Electrical data

Characteristic impedance:	100 Ohm ± 15 Ohm at 1 to 100 MHz 100 Ohm ± 20 Ohm at 101 to 500 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

## Typical values

Frequency (MHz)	10	16	62,5	100	300	500
Attenuation (db/10m)	0,9	1,1	2,3	2,9	5,1	6,8
Next (db)	60,3	57,2	48,4	45,3	38,1	34,8

## Technical data

Weight:	app. 64 kg/km
bending radius, repeated:	117 mm
Operating temperature range min.:	-10°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 6A, Flame-retardant acc. to IEC 60332-1-2, Halogen-free acc. to 60754-1, CMX 75°C (shielded) or AWM 21576 1000V

## Application

HELUKAT® 500S trailing cable Category 6A 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.

**805548**, INDUSTRIAL ETHERNET KAT.6A 10GIG PUR

Dimensions and specifications may be changed without prior notice.

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