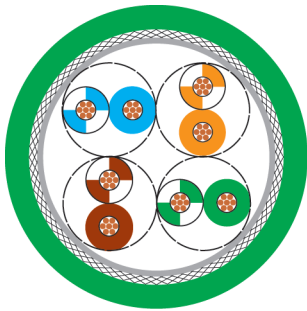


# Industrial Ethernet

Drag Chain ECO

**HELUKAT® 100S**

SF/UTP 4-pair, Category 5e



## Type

### Cable structure

Inner conductor diameter:  
Core insulation:  
Core colours:  
Stranding element:  
Separator:  
Shielding 1:  
Total shielding:  
Outer sheath material:  
Cable external diameter:  
Outer sheath colour:

## Drag Chain applications

### SF/UTP 4x2x0.15 mm<sup>2</sup> (stranded)

Copper, bare (AWG 26/19)  
PO  
whbu/bu, whog/og, whgn/gn, whbn/bn  
Double core  
-  
PETP fleece  
AL-Foil + braid  
PUR  
app. 6,6 mm ± 0,2 mm  
Green similar to RAL 6018

## Electrical data

Characteristic impedance: 100 Ohm ± 15 Ohm at 1 to 100 MHz  
Conductor resistance, max.: 125 Ohm/km  
Insulation resistance, min.: 5 GOhm x km  
Loop resistance: 250 Ohm/km max.  
Mutual capacitance: 50 nF/km nom.  
Test voltage: 0,5 kV  
Relative propagation velocity: 67 %

## Typical values

Frequency (MHz)	10	16	62,5	100	155
Attenuation (db/100m)	9,5	12,1	24,8	32,0	41,0
Next (db)	50,3	47,2	38,4	35,3	30,0

## Technical data

Weight: app. 56 kg/km  
bending radius, repeated: 102 mm  
Operating temperature range min.: -40°C  
Operating temperature range max.: +80°C  
Caloric load, approx. value: 0,64 MJ/m  
Copper weight: 31,00 kg/km

## Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5e, Flame-retardant acc. to IEC 60332-1-2, Halogen-free acc. to 60754-2, AWM 20963 (80°C/30V)

## Application

HELUKAT® 100S Category 5e Drag Chain Eco is designed for use in cable carriers and the recurring loads caused by moving machine components. Thanks to the PUR sheath, it also offers excellent resistance to common mineral oils, greases and cooling lubricants.

## Part no.

**82839**, INDUSTRIAL ETHERNET CAT.5e

Dimensions and specifications may be changed without prior notice.