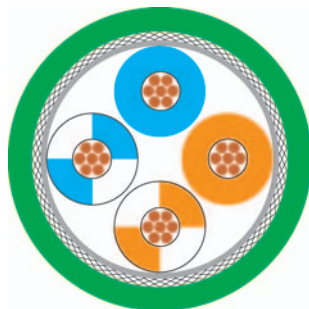


# Industrial Ethernet

**DRAG CHAIN ECO**

**HELUKAT® 100S**

SF/UTP 4 core, Category 5e



## Type

### Cable structure

Inner conductor diameter:  
Core insulation:  
Core colours:  
Stranding element:  
Shielding 1:  
Shielding 2:  
Total shielding:  
Outer sheath material:  
Cable external diameter:  
Outer sheath colour:

## Drag chain applications

### SF/UTP 4x1x0.15 mm<sup>2</sup> (stranded)

Copper, bare (AWG 26/19)  
PP  
whbl, bl, whor, or  
Star quad  
-  
PETP fleece  
Foil + braid  
PUR  
approx. 4,8 mm ± 0,3 mm  
Green

## Electrical data

Characteristic impedance: 100 Ohm ± 15 ohm at 1 to 100 MHz  
Insulation resistance, min.: 0,15 GOhm x km  
Loop resistance: 250 Ohm/km max.  
Mutual capacitance: 51 nF/km nom.  
Test voltage: 0,7 kV  
Relative propagation velocity: 60 %

## Typical values

Frequency (MHz)	10	16	62,5	100	155
Attenuation (db/100m)	9,9	12,3	25,6	33,0	41,0
Next (db)	47,0	44,0	35,0	32,0	30,0

## Technical data

Weight: approx. 30 kg/km  
bending radius, repeated: 72 mm  
Operating temperature range min.: -40°C  
Operating temperature range max.: +80°C  
Caloric load, approx. value: 0,37 MJ/m  
Copper weight: 17,00 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, Halogen-free acc. to 60754-2, Corrosiveness acc. to EN50267-2-3, AWM 20963 (80°C/30V)

## Application

This copper data cable, designed especially for heavy-duty industrial applications (Industrial Ethernet), is very well suited for manufacturing of RJ45 and 15 or 9-Pin Sub-D plugs. With its PUR sheath, it is also suitable for the application in drag chains.

## Part no.

**82838**, INDUSTRIAL ETHERNET CAT.5e

Dimensions and specifications may be changed without prior notice.