

# Industrial Ethernet

DRAG CHAIN

**HELUKAT® 200S**

SF/UTP 4 pair, Category 5



## Type

### Cable structure

Inner conductor diameter:  
Core insulation:  
Core colours:  
Stranding element:  
Separator:  
Shielding 1:  
Screen 1 over stranding:  
Screen 2 over stranding:  
Outer sheath material:  
Cable external diameter:  
Outer sheath colour:

## Drag Chain Patch Cables

### SF/UTP 4x2xAWG 24/19 PUR (stranded)

Copper, bare (AWG 24/19)  
PE  
wh/bn, gn/ye, gy/pk, bu/rd  
Double core  
Polyester foil over stranded bundle  
-  
Al-Foil  
Cu braid  
PUR  
app. 9,5 mm ± 0,2 mm  
Green similar to RAL 6026

## Electrical data

Characteristic impedance: 100 Ohm ± 15 Ohm at 1 to 100 MHz  
Loop resistance: 156 Ohm/km max.  
Mutual capacitance: 51 nF/km nom.  
Relative propagation velocity: 67 %

## Typical values

Frequency	(MHz)	10	16	62,5	100
Attenuation	(dB/10m)	0,7	0,9	1,9	2,5
Next	(db)	57,0	54,0	45,0	43,0
ACR	(db)	56,3	53,1	43,0	40,5

## Technical data

Weight: app. 110 kg/km  
bending radius, repeated: 115 mm  
Operating temperature range min.: -25°C  
Operating temperature range max.: +70°C  
Caloric load, approx. value: 2,08 MJ/m  
Copper weight: 54,30 kg/km

## Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5, Flame-retardant acc. to IEC 60332-1-2, Halogen-free acc. to 60754-1, Oil-resistant

## Application

HELUKAT® 200S Category 5e drag chain is designed for use in cable carriers and the extreme loads caused by moving machine components and provides excellent transmission characteristics under the most difficult and extreme conditions. Thanks to the clever structure, it is also suitable mechanically for use even in cable carriers with a high packing density.

## Part no.

**81155**, SF/UTP 4x2xAWG 24/19 PUR (S-FTP)

Dimensions and specifications may be changed without prior notice.