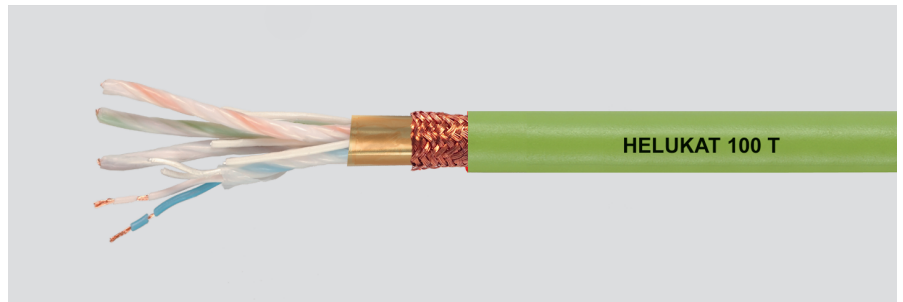
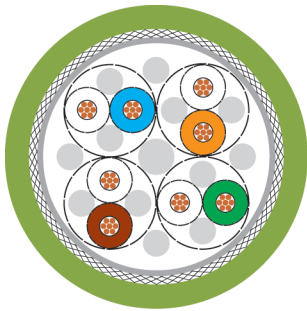


# Industrial Ethernet

TORDIERFLEX

**HELUKAT® 100T**

SF/UTP, 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:

## Torsion Patch Cables

### SF/UTP 4x2xAWG 26/19 (stranded) PUR

Copper, bare (AWG 26/19)  
PP  
wh/bu, wh/og, wh/gn, wh/bn  
Double core  
Polyester foil over stranded bundle  
-  
Polyester foil copper, bare  
Cu braid  
PUR  
app. 7,5 mm  
Green similar to RAL 6018

## Electrical data

Characteristic impedance: 100 Ohm  $\pm$  15 Ohm at 1 to 100 MHz  
Loop resistance: 260 Ohm/km max.  
Mutual capacitance: 50 nF/km nom.  
Relative propagation velocity: 68 %

## Typical values

Frequency (MHz)	10	16	62,5	100
Attenuation (dB/10m)	0,9	1,2	2,4	3,1
Next (db)	56,0	53,0	43,0	40,0
ACR (db)	55,1	51,8	40,6	36,9

## Technical data

Weight: app. 74 kg/km  
bending radius, repeated: 56 mm  
Operating temperature range min.: -20°C  
Operating temperature range max.: +60°C  
Caloric load, approx. value: 1,234 MJ/m  
Copper weight: 29,50 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, AWM Style 20236 80°C/30V

## Application

HELUKAT® 100T Category 5 Torsionflex is designed for applications with torsion loads, e.g. in robots, and characterized by high reserve capacity and outstanding performance, even after exposure to extreme conditions. Thanks to the clever structure, it is also possible to achieve a long service life mechanically.

## Part no.

**800067**, SF/UTP 4x2xAWG 26/19 PUR (S-FTP)

Dimensions and specifications may be changed without prior notice.