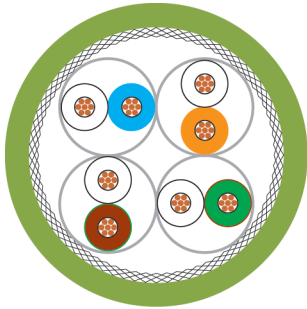


# Industrial Ethernet

Drag Chain + Torsion

**HELUKAT®** 600S + 600T

SF/FTP, Category 7



## Cable structure

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

## Drag Chain

### SF/FTP 4x2xAWG 24/7 (stranded) PUR

Copper, tinned (AWG 24/7)  
Foam-skin-PE  
wh/bu, wh/og, wh/gn, wh/bn  
-  
Al-Foil  
Al-Foil  
Cu braid  
PUR  
app. 8,7 mm ± 0,3 mm  
Green similar to RAL 6018

## Torsion

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Foam-skin-PE  
wh/bu, wh/og, wh/gn, wh/bn  
-  
Al-Foil  
Al-Foil  
Cu braid  
PUR  
app. 8,7 mm ± 0,3 mm  
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 600 MHz  
175 Ohm/km max.

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100 Ohm ± 20 Ohm at 101 to 600 MHz  
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Loop resistance:

## Typical values

frequency (MHz)		10	16	62,5	100	200	300	600
attenuation (db/100m)		6,7	8,5	17,4	22,1	31,6	39,2	57,4
next (db)		78	78	75,5	72,4	67,9	65,2	60,7
ACR (db)		71,3	69,5	58,1	50,3	36,3	26	3,3

## Technical data

Weight: app. 95 kg/km  
bending radius, repeated: 131 mm  
Operating temperature range min.: -30°C  
Operating temperature range max.: +70°C  
Copper weight: 46,00 kg/km

app. 95 kg/km  
131 mm  
-30°C  
+70°C  
46,00 kg/km

## Norms

Acc. to ISO/IEC 11801, Acc. to EIA/TIA 568-A, Category 7, Flame-retardant acc. to IEC 60332-1-2, Halogen-free acc. to 60754-1, Oil-resistant, CMX 75°C (shielded)

## Application

HELUKAT® 600S Category 7 Trailing Cable 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.

The Torsion edition has an optimized screen for torsion application which is typical in robotics.

## Part no.

**805614**, SF/FTP 4x2xAWG 24/7 PUR

**805828**, SF/FTP 4x2xAWG 24/7 PUR

Dimensions and specifications may be changed without prior notice.