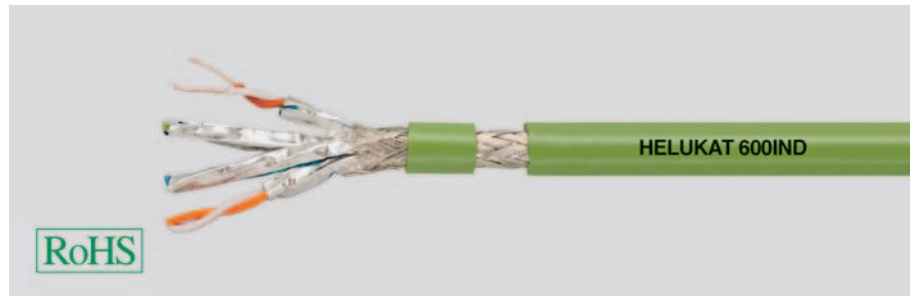
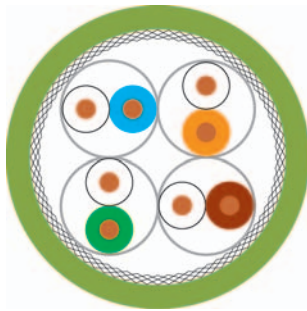


# Industrial Ethernet

ROBUST

**HELUKAT® 600IND**

S/FTP, Category 7e



## Type

### Cable structure

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

## Industrial Area

### S/FTP 4x2xAWG 23/1 PUR

Copper, bare (AWG 23/1)  
Foam-skin-PE  
wh/bu, wh/og, wh/gn, wh/bn  
Double core  
-  
Polyester foil, aluminium-lined  
Cu braid  
-  
PUR  
approx. 8,2 mm  
Green similar to RAL 6018

## Electrical data

Characteristic impedance:

100 Ohm  $\pm$  15 ohm at 1 to 100 MHz  
100 Ohm  $\pm$  20 ohm at 101 to 1000 MHz  
148 Ohm/km max.  
43 nF/km nom.  
78 %

Loop resistance:

Mutual capacitance:

Relative propagation velocity:

## Typical values

Frequency (MHz)	10	16	62,5	100	200	300	600	900	1000
Attenuation (dB/100m)	5,6	7,1	13,9	17,5	25,2	32,1	44,9	55,0	58,0
Next (db)	100,0	100,0	96,0	94,0	88,0	84,0	73,0	71,0	69,0
ACR (db)	94,4	92,9	82,1	76,5	62,8	51,9	28,1	16,0	9,0

## Technical data

Weight: approx. 62 kg/km  
bending radius, repeated: 85 mm  
Operating temperature range min.: -40°C  
Operating temperature range max.: +80°C  
Caloric load, approx. value: 0,74 MJ/m  
Copper weight: 34,00 kg/km

## Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 7e, Flame-retardant acc. to IEC 60332-1, Halogen-free acc. to 60754-2, Corrosiveness acc. to EN50267-2-3, Oil-resistant

## Application

HELUKAT® 600IND data cables are used for harsh industrial applications. Mechanical characteristics are the steady against mineral oils, fats and cooling lubricants. Also they are microben resistant and hydrolysis resistant. Electrically they are characterized by large performance reserves and outstanding performance. They can be used to implement services such as Gigabit Ethernet, Fast Ethernet, Ethernet, ATM155, FDDI, token ring 4/16 Mbit/s or ISDN absolutely trouble-free. The cables thus exceed the requirements for EN55022 Class B emission and EN55024 immunity. So this serie has a superior electromagnetic compatibility qualification.

## Part no.

**801197**, S/FTP 4x2xAWG 23/1 PUR (S-STP)

Dimensions and specifications may be changed without prior notice.