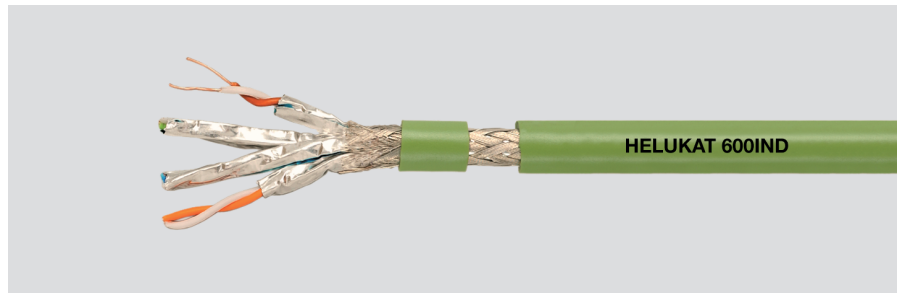
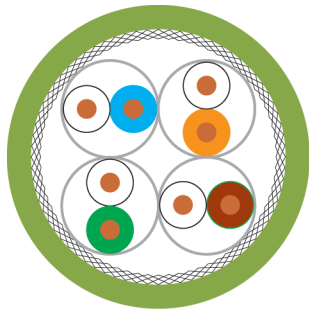


# Industrial Ethernet

ROBUST

**HELUKAT® 600IND**

S/FTP, Category 7e



## 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:

## 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  
-  
Al-Foil  
Cu braid  
-  
PUR  
app. 7,5 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 1200 MHz  
149 Ohm/km max.  
43 nF/km nom.  
77 %

Loop resistance:

Mutual capacitance:

Relative propagation velocity:

## Typical values

frequency (MHz)	10	16	62,5	100	250	350	600	900	1000	1200
attenuation (db/100m)	5,6	7,0	13,8	17,6	28,3	34,0	45,2	57,1	60,8	66,0
next (db)	95,0	95,0	89,0	87,0	82,0	79,0	74,0	70,0	66,0	63,0
ACR (db)	89,4	88,0	75,2	69,4	53,7	43,0	27,8	13,9	5,2	-3,0

## Technical data

Weight: app. 68 kg/km  
bending radius, repeated: 78 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 60332-1-2, Halogen-free acc. to 60754-2, Oil-resistant, AWM Style 21238 600V 80°C

## Application

HELUKAT® 600IND Category 7e Robust is used for harsh industrial environments. Mechanically, this product exhibits excellent resistance to mineral oils, greases and cooling lubricants and has good microbe and hydrolysis resistance. Electrically, this cable is characterized by high reserve capacity and outstanding performance. This allows you to create services such as Gigabit Ethernet, Fast Ethernet, Ethernet, ATM155, FDDI, Token Ring 4/16 Mbit/s or ISDN without difficulty. These cables considerably exceed the requirement for compliance with Class B interference emission to EN55022, as well as interference immunity to EN55024. This gives the series outstanding EMC characteristics. **Also in colour red under p/n 803815 available.**

## Part no.

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

Dimensions and specifications may be changed without prior notice.