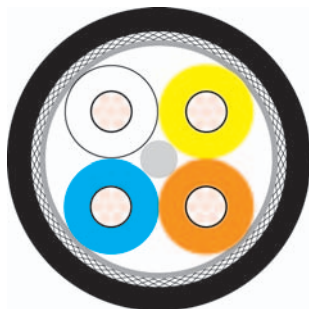


# Industrial Ethernet

WK Industrial 105°C

**HELUKAT® 100IND**

SF/UTP, Category 5e



## Type

### Cable structure

Inner conductor diameter:  
Core insulation:  
Core colours:  
Stranding element:  
Shielding 1:  
Shielding 2:  
Total shielding:  
Outer sheath material:  
Cable external diameter:  
Outer sheath colour:

## Windenergy

### SF/UTP 2x2x0,75 mm (stranded)

Copper, tinned (AWG 22/7)  
XLPE ray cross-linking  
wh, ye, bu, og  
Star quad  
Polyester foil over stranded bundle  
Polyester foil, aluminium-lined  
Cu braid, tinned  
X-FRNC  
app. 6,5 mm ± 0,2 mm  
Black similar to RAL 9005

## Electrical data

Characteristic impedance: 100 Ohm ± 15 ohm at 1 to 100 MHz  
Conductor resistance, max.: 60 Ohm/km  
Insulation resistance, min.: 0,5 GOhm x km  
Loop resistance: 120 Ohm/km max.  
Mutual capacitance: 52 nF/km nom.  
Test voltage: 2 kV  
Relative propagation velocity: 69 %

## Typical values

Frequency (MHz)	10	16	62,5	100
Attenuation (dB/100m)	6,3	8,0	16,5	21,3
Next (db)	70,0	65,0	55,0	50,0
ACR (db)	63,7	57,0	38,5	28,7

## Technical data

Weight: app. 64 kg/km  
bending radius, repeated: 52 mm  
Operating temperature range min.: -40°C  
Operating temperature range max.: +105°C \*  
Caloric load, approx. value: 0,89 MJ/m  
Copper weight: 34,00 kg/km

## Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Category 5, Flame-retardant acc. to IEC 60332-3, Halogen-free acc. to 60754-2, Corrosiveness acc. to EN50267-2-3, UL-Style 21281 80°C/300V

## Application

HELUKAT® 100IND Cat 5e WK Industrial 105°C is designed specially for demanding temperature requirements such as those encountered in wind turbines. Radiation cross-linking provides improved thermal stability as well good oil resistance.

## Part no.

**802293**, INDUSTRIAL ETHERNET CAT.5

Dimensions and specifications may be changed without prior notice.

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