

# Industrial Ethernet

PVC CMG

**HELUKAT®** 250IND

SF / UTP, Category 6



## Cable structure

Inner conductor Ø:  
Conductor material:  
Core insulation:  
Core colours:  
Separator:  
Inner sheath material:  
Screen over stranding element:  
Total shielding:  
Outer sheath material:  
Outer diameter:  
Outer sheath colour:

## SF/UTP 4x2xAWG 24/ 1 PVC

0,51 mm  
Copper, bare  
PE  
wh/bu, wh/og, wh/gn, wh/bn  
Polyester foil over stranded bundle  
FRNC  
-  
AL-Foil + braid  
PVC  
app. 8,0 mm  
Green similar to RAL 6018

## Electrical data

Characteristic impedance: 100 Ohm ± 15 Ohm at 1 to 100 MHz  
100 Ohm ± 20 Ohm bei 101 bis 250 MHz  
Conductor resistance, max.: 95 Ohm/km  
Insulation resistance, min.: 0,5 GOhm x km  
Loop resistance: 190 Ohm/km max.  
Mutual capacitance: 72 nF/km nom.  
Test voltage: 0,7 kV  
Rel. propagation velocity: 62 %

## Typical values

Frequency	(MHz)	10	16	62,5	100	250
attenuation	(db/100m)	6,3	7,9	16,0	20,7	35,0
Next	(dB)	59,3	56,2	47,4	44,3	38,3
PSNext	(dB)	57,3	54,2	45,4	42,3	36,3

## Technical data

Weight: app. 76 kg/km  
bending radius, repeated: 40 mm  
Operating temperature range min.: -40°C  
Operating temperature range max.: +80°C  
Caloric load, approx. value: 1,69 MJ/m  
Copper weight: 37,00 kg/km

## Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 6, Flame-retardant acc. to IEC 60332-3, CMG FT4

## Application

HELUKAT® 250IND was designed specially for extreme industrial applications. The copper data cable is especially well-suited for Ethernet applications Category 6. It guarantees excellent transmission characteristics and may be used even under the harshest conditions.

## Part no.

**805655**, INDUSTRIAL ETHERNET CAT.6

Dimensions and specifications may be changed without prior notice.

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