

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:
Conductor resistance, max.:
Insulation resistance, min.:
Loop resistance:
Mutual capacitance:
Test voltage:
Rel. propagation velocity:

100 Ohm ± 15 Ohm at 1 to 100 MHz
100 Ohm ± 20 Ohm bei 101 bis 250 MHz
95 Ohm/km
0,5 GOhm x km
190 Ohm/km max.
72 nF/km nom.
0,7 kV
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:
bending radius, repeated:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx. value:
Copper weight:

app. 76 kg/km
40 mm
-40°C
+80°C
1,69 MJ/m
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.