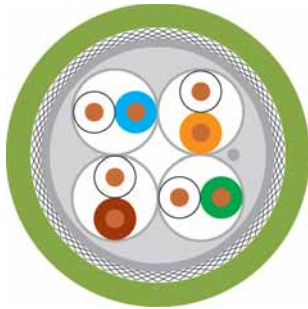


Industrial Ethernet

10GIG

HELUKAT® 500IND
CC-Link IE **E**field SF/FTP, Category 6A



Type Cable structure

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

Industrial Area S/FTP 4x2xAWG 22/1

Copper, bare (AWG 22/1)
Foam-skin-PE
wh/bu, wh/og, wh/gn, wh/bn
Double core
-
FRNC
Al-Foil
AL-Foil + braid
yes
PVC
app. 9,6 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 500 MHz
Conductor resistance, max.: 59 Ohm/km
Insulation resistance, min.: 0,5 GOhm x km
Loop resistance: 118 Ohm/km max.
Mutual capacitance: 72 nF/km nom.
Test voltage: 0,7 kV
Relative propagation velocity: 62 %

Typical values

Frequency (MHz)	10	16	62,5	100	250	500
Attenuation (dB/100m)	5,9	7,5	15,0	19,1	31,1	45,3
Next (dB)	60,3	57,2	48,4	45,3	39,3	34,8
PSNext (dB)	57,3	54,2	45,4	42,3	36,3	31,8

Technical data

Weight: app. 115 kg/km
bending radius, repeated: 80 mm
Operating temperature range min.: -20°C
Operating temperature range max.: +60°C
Caloric load, approx. value: 1,63 MJ/m
Copper weight: 44,00 kg/km

Norms

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

Application

HELUKAT® 500IND was designed specially for extreme industrial applications for fixed installation. The copper data cable is especially well-suited for **Category 6A 10 Gigabit/500MHz (IEC 61156-5)** Ethernet applications. It guarantees excellent transmission characteristics and may be used even under the harshest conditions.

Part no.

803693, INDUSTRIAL ETHERNET KAT.6A 10GIG PVC

Dimensions and specifications may be changed without prior notice.