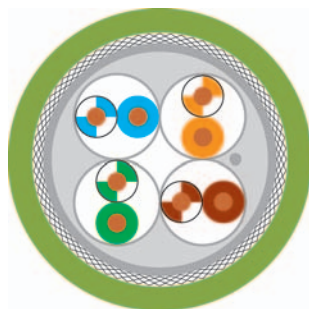


Industrial Ethernet

10GIG

HELUKAT® 500IND

S/FTP, Category 6A



Type

Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Shielding 1:
Inner sheath material:
Shielding 2:
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
whbu/bu, whog/og, whgn/gn, whbn/bn
Double core
Polyester foil over stranded bundle
PVC
Polyester foil, aluminium-lined
Foil + braid
yes
PVC
approx. 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	34,3
PSNext	(dB)	57,3	54,2	45,4	42,3	36,3	31,8

Technical data

Weight:
bending radius, repeated:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx. value:
Copper weight:

approx. 115 kg/km
80 mm
-40°C
+70°C
1,69 MJ/m
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

These specially designed for extreme industrial use copper data cables are ideal for Ethernet applications of **category 6A 10G / 500MHz (IEC 61156-5)**. They guarantee excellent transmission characteristics and smooth operation even under difficult conditions. The line given here is based on the Type A PROFinet. The additional inner casing pipe in the quick contact method is workable. This version with PVC jacket is specially designed for harsh industrial conditions as permanent installations.

Part no.

803693, INDUSTRIAL ETHERNET CAT.6A 10GIG

Dimensions and specifications may be changed without prior notice.