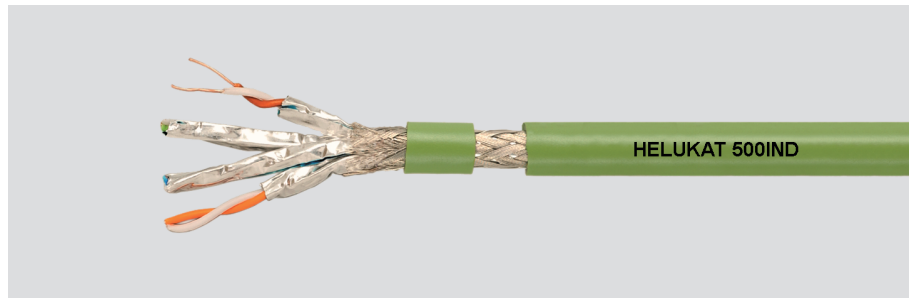
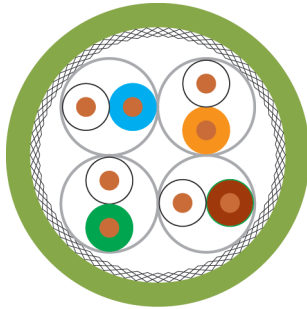


Industrial Ethernet

10GIG

HELUKAT® 500IND

S/FTP, Category 6A



Cable structure

Inner conductor Ø:	0,64 mm
Conductor material:	Copper, bare
Core insulation:	Foam-skin-PE
Core colours:	whbu/bu, whog/og, whgn/gn, whbn/bn
Separator:	-
Inner sheath material:	-
Screen over stranding element:	Al-Foil
Total shielding:	Cu braid, tinned
Drain wire:	yes
Outer sheath material:	PUR
Outer diameter:	app. 8,7 mm
Outer sheath colour:	Green similar to RAL 6018

Electrical data

Characteristic impedance:	100 Ohm \pm 15 Ohm at 1 to 100 MHz 100 Ohm \pm 20 Ohm at 101 to 500 MHz
Conductor resistance, max.:	59 Ohm/km
Insulation resistance, min.:	5 GOhm x km
Loop resistance:	118 Ohm/km max.
Mutual capacitance:	45 nF/km nom.
Test voltage:	2 kV

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. 103 kg/km
bending radius, repeated:	70 mm
Operating temperature range min.:	-40°C
Operating temperature range max.:	+80°C
Caloric load, approx. value:	1,63 MJ/m
Copper weight:	53,00 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 60332-1-2, Halogen-free acc. to 60754-1, Corrosiveness acc. to EN50267-2-3, CMX 444

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.

11007778, INDUSTRIAL ETHERNET CAT.6A 10GIG

Dimensions and specifications may be changed without prior notice.