Industrial Ethernet
ROBUSTFLEX

HELUKAT® 1000IND

S/FTP, Category 7A

Cable structure
S/FTP 4x2xAWG 26/7 PUR

Inner conductor Ø:	0,48 mm
Conductor material:	Copper, bare
Core insulation:	Foam-skin-PE
Core colours:	wh/bu, wh/og, wh/gn, wh/bn
Separator:	-
Screen over stranding element:	Al-Foil
Screen 1 over stranding:	Cu braid
Screen 2 over stranding:	-
Outer sheath material:	PUR
Outer diameter:	app. 6,2 mm
Outer sheath colour:	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 1000 MHz
Loop resistance:	290 Ohm/km max.
Mutual capacitance:	44 nF/km nom.
Rel. propagation velocity:	64 %

Typical values

Frequency	(MHz)	10	100	250	800	900	1000
Attenuation	(db/10m)	0,9	2,8	4,5	8,2	8,8	9,3
Next	(db)	78,0	78,0	72,4	64,9	64,1	63,4
ACR	(db)	77,1	75,2	67,9	56,7	55,3	54,1

Technical data

Weight:	app. 40 kg/km
bending radius, repeated:	50 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+80°C
Caloric load, approx. value:	0,45 MJ/m
Copper weight:	23,00 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 7A, Flame-retardant acc. to IEC 60332-1-2, Halogen-free acc. to 60754-1, Oil-resistant, AWM Style 21238 (80°C/ 600V)

Application

HELUKAT® 1000IND Category 7A Robustflex is an Ethernet cable that, thanks to use of a halogen-free PU outer sheath, is ideal for harsh industrial surroundings. This cable is configurable with common RJ45 plugs (industrial and office version), as well as with some Sub-D and M12 plugs.

Part no.

805684, S/FTP 4x2xAWG 26/7 PUR (S-STP)

Dimensions and specifications may be changed without prior notice.

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