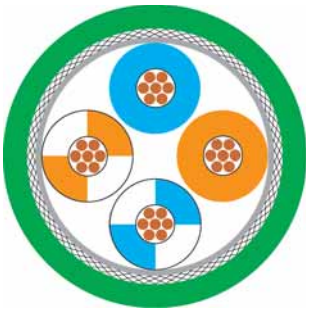
Industrial Ethernet

DRAG CHAIN ECO

HELUKAT® 100S

SF/UTP 4 core, Category 5e



Type
Cable structure

Drag chain applications
SF/UTP 4x1x0.15 mm² (stranded)

Inner conductor diameter:	Copper, bare (AWG 26/19)
Core insulation:	PO
Core colours:	bl, or, whbl, whor
Stranding element:	Star quad
Separator:	-
Shielding 1:	-
Total shielding:	AL-Foil + braid
Outer sheath material:	PUR
Cable external diameter:	app. 4,8 mm ± 0,2 mm
Outer sheath colour:	Green similar to RAL 6018

Electrical data

Characteristic impedance:	100 Ohm ± 15 Ohm at 1 to 100 MHz
Conductor resistance, max.:	125 Ohm/km
Insulation resistance, min.:	5 GOhm x km
Loop resistance:	250 Ohm/km max.
Mutual capacitance:	50 nF/km nom.
Test voltage:	0,5 kV
Relative propagation velocity:	67 %

Typical values

Frequency	(MHz)	10	16	62,5	100	155
Attenuation	(db/100m)	9,5	12,1	24,8	32,0	41,0
Next	(db)	50,0	48,0	38,5	35,3	30,0

Technical data

Weight:	app. 30 kg/km
bending radius, repeated:	70 mm
Operating temperature range min.:	-40°C
Operating temperature range max.:	+80°C
Caloric load, approx. value:	0,37 MJ/m
Copper weight:	17,00 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5e, Flame-retardant acc. to IEC 60332-1-2, Halogen-free acc. to 60754-1, AWM 20963 (80°C/30V)

Application

HELUKAT® 100S Category 5e drag chain Eco is designed in use in cable carriers and the recurring loads cause by moving machine components. Thanks to the PU sheath, it also offers excellent resistance to common mineral oils, greases and cooling lubricants.

Part no.

82838, INDUSTRIAL ETHERNET CAT.5e

Dimensions and specifications may be changed without prior notice.