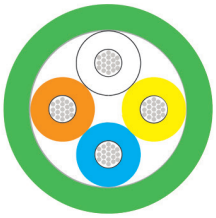
HELUKAT® 100T CAT. 5e U/UTP TORSION

high abrasion resistance





TECHNICAL DATA

Industrial Ethernet cable / Cat. 5e acc. to UL-Std. 758 (AWM) Style 20549

Temperature range	flexible -30°C to +80°C fixed installation -40°C to +80°C
Peak operating voltage	125 V (not for high power current installation purposes)
Test voltage core/core	2000 V
Conductor resistance at 20°C	max. 140.0 Ohm/km
Loop resistance at 20°C	max. 280.0 Ohm/km
Insulation resistance	min. 5.0 GOhm x km
Mutual capacitance core/core	at 800 Hz, approx. 50 pF/m
Characteristic impedance	at 1 to 100 MHz, 100 Ohm ± 15 Ohm
Minimum bending radius	flexible 10x Outer-Ø fixed installation 5x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, AWG sizes
- Core insulation: Polyolefin
- 4 cores twisted into a star quad with optimal lay lengths
- Fleece wrapping
- Outer sheath: PUR
- Sheath colour: green

PROPERTIES

- resistant to: oil
- halogen-free
- flame-retardant

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- flame-retardant acc. to CSA FT1, CSA FT2

APPLICATION

HELUKAT® 100T CAT. 5e U/UTP TORSION is designed for use in applications with limited space requirements and rotation up to 360°/m (e.g. in the cobot arm).

NOTES

- Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approximated and are for reference only

TYPICAL VALUES

Frequency (MHz)	4	10	16	20	31.25	62.5	100
Attenuation (dB/100m)	8.0	17.4	23.9	27.5	37.2	60.0	83.0
NEXT (dB)	56.3	50.3	47.2	45.8	42.9	38.4	35.3

Part no.	No. cores x AWG-No.	Cross-sec. mm², approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
11022310	1 x 4 x AWG 26 /19	0.14	3.9	6.0	21.0

04.02.2026 / We reserve the right to make technical changes; the imprint in the image is purely exemplary