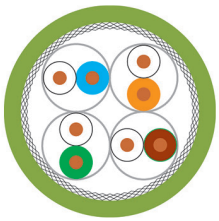
HELUKAT® 1200IND CAT.7$_A$ S/FTP PUR STATIC

extended performance up to 1200 MHz



TECHNICAL DATA

Industrial Ethernet cable / Cat. 7$_A$ acc. to ISO/IEC 11801, DIN EN 50173, IEC 61156-5, DIN EN 50288-9-1, UL-Std. 758 (AWM) Style 20549

Temperature range	fixed installation -40°C to +80°C during installation -5°C to +50°C UL (AWM) to +80°C
Peak operating voltage	125 V (not for high power current installation purposes)
Test voltage core/core	1500 V
Conductor resistance at 20°C	max. 74.5 Ohm/km
Loop resistance at 20°C	max. 149.0 Ohm/km
Insulation resistance	min. 5.0 GOhm x km
Mutual capacitance core/core	at 800 Hz, approx. 43 pF/m
Rel. Velocity of Propagation	approx. 77%
Characteristic impedance	at 1 to 100 MHz, 100 Ohm ± 15 Ohm at 101 to 1200 MHz, 100 Ohm ± 25 Ohm
Caloric load	approx. 0.76 MJ/m
Minimum bending radius	during installation 10x Outer-Ø fixed installation 7x Outer-Ø

CABLE STRUCTURE

- Copper conductor bare, AWG sizes
- Core insulation: Foam PE
- Core identification: colour coded, pairs:
  No. 1: white / blue
  No. 2: white / orange
  No. 3: white / green
  No. 4: white / brown
- Cores stranded in pairs with optimal lay lengths
- Screening element: pairs, plastic-coated aluminium foil (St)
- Pairs stranded in layers with optimal lay lengths
- Screen: braided screen of tinned copper wires
- Outer sheath: PUR
- Sheath colour: green (RAL 6018)
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation, hydrolysis, microbes, coolants, greases
- abrasion-resistant, notch-resistant, tear-resistant, cut-resistant, wear-resistant, low adhesion
- halogen-free
- flame-retardant

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

APPLICATION

HELUKAT® 1200IND CAT.7$_A$ S/FTP PUR STATIC is used for harsh industrial environments. Mechanically, this product exhibits excellent resistance to mineral oils, greases and cooling lubricants and has good microbe and hydrolysis resistance. Electrically, this cable is characterized by high reserve capacity and outstanding performance.

NOTES

- Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approximated and are for reference only
- UL Voltage Rating: 300 V

TYPICAL VALUES

Frequency (MHz)	10	16	62.5	100	250	350	600	900	1200
Attenuation (dB/100m)	5.6	7.0	13.8	17.6	28.3	34.0	45.2	57.1	66.0
NEXT (dB)	95.0	95.0	89.0	87.0	82.0	89.0	74.0	70.0	63.0
ACR (dB/100m)	89.4	86.0	73.2	67.4	51.7	43.0	27.8	13.9	1.0

Part no.	No. cores x AWG-No.	Cross-sec. mm², approx.	Conductor Ø mm, approx.	Core Ø mm, approx.	Outer-Ø min - max mm	Cu factor per km	Weight kg/km, approx.
805680	4 x 2 x AWG 23 /1	0.26	0.57	1.43	7.5 - 8.1	37.0	68.0

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