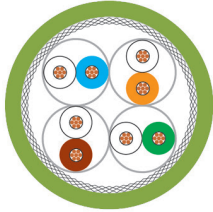


HELUKAT® 500IND CAT.6A S/FTP LSOH EXTRAFLEX

extremely flexible



TECHNICAL DATA

Industrial Ethernet cable acc. to ISO/IEC 11801, DIN EN 50173, IEC 61156-5

Temperature range	flexible -20°C to +75°C fixed -20°C to +75°C
Peak operating voltage	125 V (not for high power current installation purposes)
Test voltage core/core	1000 V
Conductor resistance at 20°C	max. 142.0 Ohm/km
Loop resistance at 20°C	max. 284.0 Ohm/km
Insulation resistance	min. 100 MOhm x km
Characteristic impedance	at 1 to 100 MHz, 100 Ohm ± 25 Ohm at 101 to 500 MHz, 100 Ohm ± 25 Ohm
Minimum bending radius	flexible 5x Outer-Ø fixed 5x Outer-Ø

CABLE STRUCTURE

- Copper wire 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
- Sheath colour: green
- Length marking: in metres

PROPERTIES

- 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
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2

APPLICATION

HELUKAT® 500IND CAT.6A S/FTP TPE/LSZH EXTRAFLEX was designed specifically for use in extreme industrial applications and installations requiring non-cyclical bending. This copper data cable is exceptionally well suited for Cat. 6A Ethernet applications and guarantees first-class data transmission properties, even under the harshest of conditions.

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)	10	16	62.5	100	250	500
Attenuation (dB/10m)	6.5	8.2	16.4	20.9	33.9	49.3
NEXT (dB)	56.6	53.2	43.4	39.9	33.1	27.9
ACR (dB/100m)	50.1	45.0	27.0	29.0	-0.8	-21.4

Part no.	No. cores x AWG-No.	Cross-sec. mm², approx.	Conductor Ø mm, approx.	Core Ø mm, approx.	Outer-Ø min - max mm	Weight kg/km, approx.
11023932	4 x 2 x AWG 26 /7	0.14	0.5	1.04	6.0 - 7.0	70.0