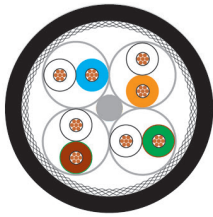


HELUKAT® 600IND CAT.7 S/FTP FRNC SHIPLINE

Marine and Offshore, flame-retardant, low smoke



TECHNICAL DATA

Industrial Ethernet cable / Cat. 7 acc. to DIN EN 50288-4-2, IEC 61156-6

Temperature range	flexible -40°C to +80°C fixed -40°C to +80°C
Peak operating voltage	100 V (not for high power current installation purposes)
Test voltage	700 V
Conductor resistance at 20°C	max. 90.0 Ohm/km
Loop resistance at 20°C	max. 180.0 Ohm/km
Insulation resistance	min. 0.5 GOhm x km
Mutual capacitance core/core	at 800 Hz, approx. 42 pF/m
Rel. Velocity of Propagation	approx. 71%
Characteristic impedance	at 1 to 100 MHz, 100 Ohm ± 15 Ohm at 101 to 600 MHz, 100 Ohm ± 20 Ohm
Caloric load	approx. 0.99 MJ/m
Minimum bending radius	flexible 10x Outer-Ø fixed 5x Outer-Ø

- Sheath colour: black
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation
- halogen-free
- Suitable for naval and offshore applications

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
- bundle fire test acc. to DIN VDE 0482-332-3-22 / DIN EN 60332-3-22 / IEC 60332-3-22
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- certifications and approvals: DNV

APPLICATION

HELUKAT® 600IND CAT.7 S/FTP FRNC SHIPLINE is designed and DNV-certified for flexible marine and offshore applications. This cable is exceptionally well suited for 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

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
- Outer sheath: halogen-free, flame retardant compound (FRNC)

TYPICAL VALUES

Frequency (MHz)	10	16	62.5	100	200	300	600
Attenuation (dB/100m)	8.5	10.8	21.7	27.8	40.1	50.0	73.3
NEXT (dB)	80.0	80.0	75.1	69.6	67.9	65.3	60.8
ACR (dB/100m)	71.5	69.2	53.4	41.8	27.8	15.3	12.5

Part no.	No. cores x AWG-No.	Cross-sec. mm ² , approx.	Conductor Ø mm, approx.	Core Ø mm, approx.	Outer-Ø min - max mm	Cu factor per km	Weight kg/km, approx.
11021853	4 x 2 x AWG 24 / 7	0.23	0.61	1.45	8.2 - 9.2	36.0	85.0