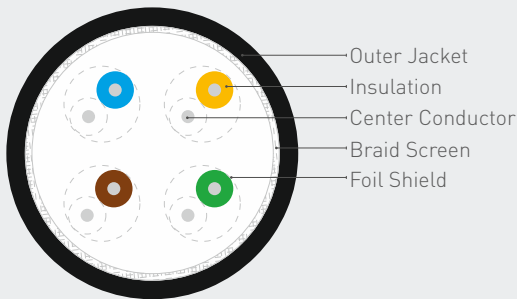
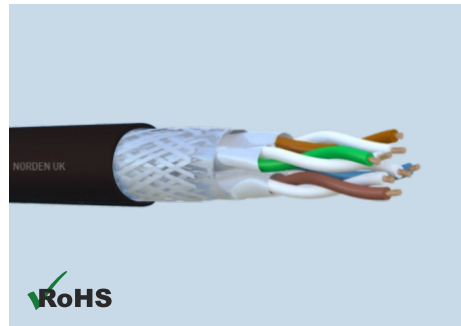


CATEGORY 6A S/FTP MARINE CABLE

Norden Category 6A S/FTP Marine Cables are Individual and Collective Screened LAN cables for Ship and Offshore use. It is used for Data Transmission and comes with Foam PE Insulation and Al/Mylar Individual Screen with Tinned Copper braiding and SHF2 Outer Jacket. It is tested to 500 MHz frequency range and designed to support 10GBase-T applications.



COMPLIANCE

IEEE 802.3af, IEEE 802.3at for PoE applications
 ANSI/TIA-568.2-D Category 6A
 ISO/IEC-11801, Class E
 IEC 61156-5: Category 6A: IEC 60332-1, IEC 60754,
 IEC 61034, IEC 60332-3-22, IEC 60332-3-24,
 IEC 60092-360, RoHS

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	Foam PE
Insulation Diameter	1.34 ± 0.05 mm
Conductor Unit Identification	Solid/Stripe
Rip Cord	No
Drain Wire	No
Colour Code	Per TIA/EIA 568-B
Ind. Shield Material	Al/Mylar
Ind. Shield Design	100% Coverage
Conductor Unit Lay-Up	Pairs
Overall Shield Design	Braid
Overall Shield Material	Tinned Copper
Braid Coverage	≥60% nom.
Total Number of Wires	8
Outer Jacket	SHF2
Outer Jacket Thickness & Ex. Diameter	8.3 ± 0.5 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

CATEGORY 6A S/FTP MARINE CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Impedance	100 ± 5 Ω @100MHz
DC Resistance	≤95 Ω/km
Max. Resistance Unbalance	≤2% (within a pair)
Mutual Capacitance	≤5.6pF/100 m @ 1kHz
Capacitance Unbalance	1.6 pF/m @ 1kHz (pair to ground)
Velocity of Propagation	Nom. 74%
Delay Skew	≤45ns/100m
Dielectric Strength	DC 1 KV/minute
Insulation Resistance	≥5000MΩ.km (IEC 61156-5)
Operating Temperature Range	-40 °C to +80 °C
Min. Bending Radius	≥ 8 OD (fixed)
Installation temperature	-20°C to +60°C

TRANSMISSION PERFORMANCE

Frequency Mhz	ATT dB/100m Max.	RL dB Min.	NEXT dB Min.	PS NEXT dB Min.	ELFEXT dB Min.	PS ELFEXT dB Min.
4	3.80	23.0	66.3	63.3	56.0	53.0
8	5.31	24.5	61.8	58.8	49.9	46.9
10	5.93	25.0	60.3	57.3	48.0	45.0
16	7.49	25.0	57.2	54.2	43.9	40.9
20	8.38	25.0	55.8	52.8	42.0	39.0
25	9.38	24.3	54.3	51.3	40.0	37.0
31.25	10.50	23.6	52.9	49.9	38.1	35.1
62.5	14.99	21.5	48.4	45.4	32.1	29.1
100	19.14	20.1	45.3	42.3	28.0	25.0
200	27.58	18.0	40.8	37.8	22.0	19.0
250	31.07	17.3	39.3	36.3	20.0	17.0
300	34.27	17.3	38.1	35.1	18.5	15.5
400	40.05	17.3	36.3	33.3	16.0	13.0
500	45.26	17.3	34.8	31.8	14.0	11.0

ORDERING INFORMATION

Part Number	Description	Standard Length
114-30006504X	Category 6A S/FTP 4 Pair Marine Cable	500 m

X: BK(Black), BL(Blue), GN(Green), GY(Gray), RD(Red), WH(White), YL(Yellow)