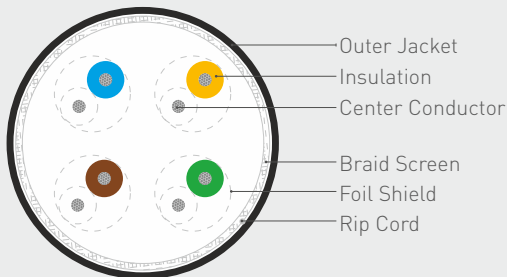
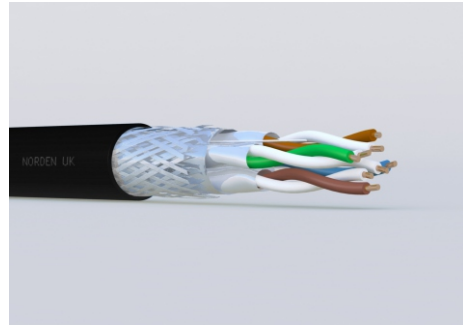


CATEGORY 6A S/FTP 4 PAIR MARINE CABLE

Norden Category 6A S/FTP marine cables exceed Category 6A / Class EA specification. It is tested to 500 MHz frequency range and designed to support 10 Gigabyte application for ship and offshore use. This cable is constructed with 23 AWG/7 BC conductor, Foam PE insulation, AL/Mylar individual screen, Tinned copper braiding overall screen and SHF1 jacket.



COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568.2-D:Category 6A ISO/
IEC-11801, 2nd Edition Class EA IEC
61156-5:2002 Category 6A

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare copper
Conductor Size	23 AWG, 7x0.23mm
Conductor Construction	Stranded
Insulation Material	Foam PE
Insulation O.D.	1.55±0.05mm
Colour Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminium/Mylar
Ind. Shield Design	100 % Coverage
Conductor Unit Lay-Up	Pairs
Overall Shield Design	Braid
Overall Shield Material	Tinned Copper
Braid Coverage	More than 65 %.
Drain-Wire Material	N/A
Total Number of Wires	8
Outer Jacket	SHF1
Outer Jacket Diameter	9.0 mm
Outer Jacket Colour	Black
Marking	Per Requirement

CATEGORY 6A S/FTP 4 PAIR MARINE CABLE

ELECTRICAL & OTHER CHARACTERISTICS

Frequency Range	1 - 500 MHz
Impedance	100 Ω
Conductor DC resistance	$\leq 93.8\Omega/\text{km}$
DC Resistance Unbalance	$\leq 5\%$
Characteristic impedance	100 \pm 15 Ω @100MHz, 100 \pm 22 Ω @100~250MHz
Dielectric Strength	DC1KV for 1min (cond. to cond.,cond. to screen)
Insulation Resistance	$\geq 5000M\Omega.\text{km}$ (IEC 60189-1)
Capacitance Unbalance (pair to ground)	$\leq 160\text{pF}/100\text{m}$ at 1kHz (IEC 60189-1)
Operating temperature	-15°C to 80°C
Installation temperature	5°C to 60°C
Acid Gas Release Mounts	$\leq 5\text{mg/g}$ (IEC 60754-1)
Burning Occur Gas Acidity	PH \geq 4.3 (IEC 60754-2)
Burning Occur Gas conductivity	$<10 \mu\text{S}/\text{mm}$ (IEC 60754-2)
Smoke density	$\geq 60\%$ (IEC 61034-2)
Flame resistance	IEC 60332-3-24

TRANSMISSION PERFORMANCE

Freq. MHz	Attenuation dB/100m	RL dB	NEXT dB	PSNEXT dB	ELFEXT dB	PSELFEXT dB
	Max.	Min.	Min.	Min.	Min.	Min.
4	3.8	23.0	66.3	63.3	56.0	53.0
8	5.3	24.5	61.8	58.8	49.9	46.9
10	5.9	25.0	60.3	57.3	48.0	45.0
16	7.5	25.0	57.2	54.2	43.9	40.9
20	8.4	25.0	55.8	52.8	42.0	39.0
25	9.4	24.3	54.3	51.3	40.0	37.0
31.25	10.5	23.6	52.9	49.9	38.1	35.1
62.5	15.0	21.5	48.4	45.4	32.1	29.1
100	19.1	20.1	45.3	42.3	28.0	25.0
200	27.6	18.0	40.8	37.8	22.0	19.0
250	31.1	17.3	39.3	36.3	20.0	17.0
300	34.3	17.3	38.1	35.1	18.5	15.5
400	40.1	17.3	36.3	33.3	16.0	13.0
500	45.3	17.3	34.8	31.8	14.0	11.0

ORDERING INFORMATION

Part Number	Description	Standard Length
114-30706504X	Category 6A S/FTP 4 Pair Marine Cable	305 mtr

PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
114-30706504X	Plywood Reel/Ctn	23.6	26.0	420 x 420 x 260