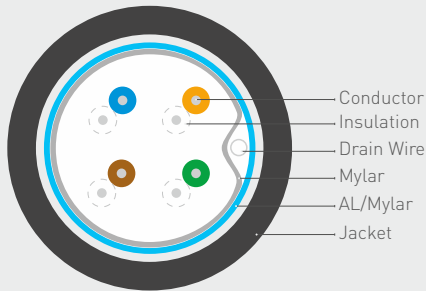
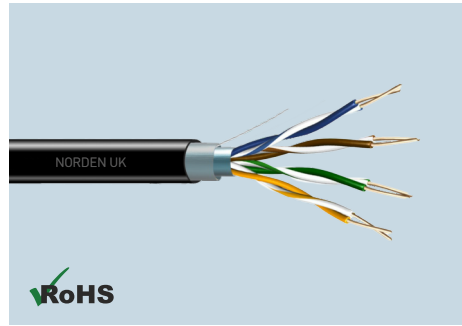


# CATEGORY 5E F/UTP MARINE CABLE

Norden Category 5E F/UTP marine cables exceed Category 5E / Class D specifications. It is tested to 100 MHz frequency range and designed to support Gigabit 1000Base-T applications up to 100m for offshore use. This cable is constructed with a 24 AWG BC conductor, HDPE insulation, Al/Mylar screen, and PUR jacket which have good resistance against abrasion, oil and ozone. PUR is halogen free.



## COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications  
 ANSI/TIA-568.2-D Category 5E  
 ISO/IEC-11801, Class D / IEC 61156-5: Category 5e

## PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	0.50 mm, 24 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	1.00 ± 0.05 mm
Drain Wire	0.4mm Solid Tinned Copper
Conductor Unit Identification	Solid / Stripe
Colour Code	Per TIA / EIA 568-B
Total Number of Wires	8
Tape	Mylar Tape
Overall Screen	AL / Mylar
Outer Jacket	PUR(Polyurethane)
Outer Jacket Thickness & Ex. Diameter	Approx 0.7mm, 6.40 ± 0.30 mm
Outer Jacket Colour	Black
Marking	Per Requirement

# CATEGORY 5E F/UTP MARINE CABLE

## ELECTRICAL & OTHER CHARACTERISTICS

Conductor Resistance	≤ 95 Ω/km
Resistance Unbalance	≤ 2.0 % within a pair ≤ 5.0 % between pairs
Capacitance Unbalance	≤ 1600 pF/KM at 800 Hz or 1000 Hz
Dielectric Strength	1 KV/minute
Insulation Resistance	≥ 5000 MΩ•km
Propagation Delay Skew	≤ 45 ns/100 m
Operating Temperature Range	-40 °C +80 °C
Installation Temperature Range	-20 °C +60 °C
Min. Bend Radius	5 X OD
Flame Resistance	FT2
Oil Resistance	IRM 902, 100°C X 96h (UL 758)

## TRANSMISSION PERFORMANCE

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ACRF dB	PSACRF dB
1	3.0	60.0	57.0	17.0	57.4	54.4
4	4.5	53.5	50.5	17.0	45.4	42.4
8	6.3	48.6	45.6	17.0	39.3	36.3
10	7.1	47.0	44.0	17.0	37.4	34.4
16	9.1	43.6	40.6	17.0	33.3	30.3
20	10.2	42.0	39.0	17.0	31.4	28.4
25	11.4	40.3	37.3	16.0	29.4	26.4
31.25	12.9	38.7	35.7	15.1	27.5	24.5
62.5	18.6	33.6	30.6	12.1	21.5	18.5
100	24.0	30.1	27.1	10.0	17.5	14.4

\*Supplied cables meets Cat. 5e min. transmission requirements of IEC 61156-5 Ed. 2

## ORDERING INFORMATION

Part Number	Description	Standard Length
112-3004U204X	Category 5E F/UTP Marine Cable	500 mtr

X: BK(Black)