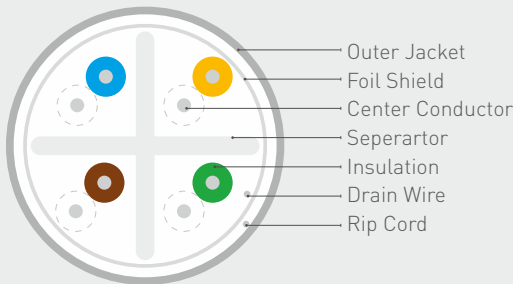
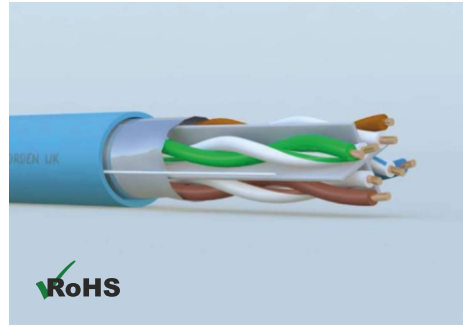


CATEGORY 6 F/UTP 4 PAIR EXTERNAL CABLE PE

Norden Category 6 F/UTP Cables exceed Category 6 / Class E specification. It is tested to 250 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications up to 100m.

Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to F/UTP (Foiled Twisted Pair) cabling systems. F/UTP (Twisted Pair - overall Foil shield) cabling systems are installed for improved Alien Cross talk performance.



COMPLIANCE

ANSI/TIA-568-C.2: Category 6
ISO/IEC-11801, Class E

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	0.57 mm, 23 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	1.09 mm norm.
Conductor Unit Identification	Solid/Stripe
Drain Wire	Tinned Copper 0.41 mm
Overall Shield	Laminated Aluminium foil (foil face in) ,100 % coverage
Outer Jacket	PE
Outer jacket Thickness & Ex. Diameter	0.60±0.05 mm, 7.4±0.4 mm
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

CATEGORY 6 F/UTP 4 PAIR EXTERNAL CABLE PE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Pulling Force:	110 N/mm ² max
Delay Skew: 1-250 MHz	≤ 45 ns/100m
Tensile Strength (Mpa)	≥ 10
Elongation	≥ 150%
Characteristic Impedence	100±15Ω @ 1-250 MHz
DC Resistance	9.38 (Ω/100m) max.
Resistance Unbalance:	5.0 % max
Capacitance	5.6nF/100m. Max
Cap. Unbalance (Wire to Ground)	330pF/100m Max
Dielectric Strength	1.0 KV/minute
Velocity of Propagation (NVP):	69 %
Insulation Resistance:	5000 MΩ Km/min.
Transfer Impedance	N/A
Cold Bend (-20D Celcius x 4h)	No visible Cracks
Operating Temperature:	-30°C to +50°C
Min. Bend Radius	8 x OD mm.

ELECTRICAL PERFORMANCE CHARACTERISTICS

Cat. 6 Un-screened Pair Horizontal Cables*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	DELAY ns	RL dB	ELFEXT dB	PSELFEXT dB
1	2.03	74.3	72.3	570	20	67.8	64.8
4	3.78	65.3	63.8	552	23	55.8	52.8
8	5.32	60.8	58.8	546.73	24.5	49.7	46.7
10	5.95	59.3	57.3	545.38	25	47.8	44.8
16	7.55	56.2	54.2	543	25	43.7	40.7
20	8.47	54.8	52.8	542.05	25	41.8	38.8
25	9.51	53.3	41.3	541.2	24.3	39.8	36.8
31.25	10.67	51.9	49.9	540.44	23.6	37.9	34.9
62.5	15.38	44.7	45.4	538.55	21.5	31.9	28.9
100	19.8	44.3	42.3	573.6	20.1	27.8	24.8
200	28.98	39.8	37.8	536.54	18	21.8	18.8
250	32.85	38.3	36.3	536.27	17.3	19.8	16.8

*Supplied cables meet the minimum Cat. 6 transmission requirements as per IEC 61156-5 Ed. 2

ORDERING INFORMATION

Part Number	Description	Standard Length
113-21003204X	Category 6 F/UTP 4 Pair External Cable PE	305 mtr

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