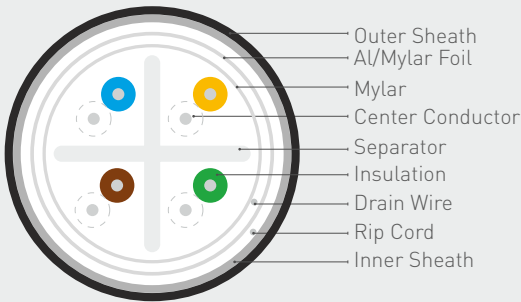
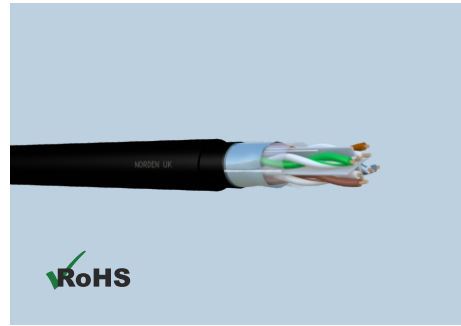


CATEGORY 6 F/UTP 4 PAIR 23 AWG INNER PVC/OUTER HDPE JACKET EXTERNAL CABLE



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. The cable has a double layer HDPE Jacket and is used in external applications.



COMPLIANCE

ANSI/TIA-568.2-D Category 6
ISO/IEC-11801, Class E
IEEE 802.3af, IEEE 802.3at for PoE application

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid Bare Copper
Conductor Size	23 AWG
Drain Wire	Tinned Copper
Insulation Material	High Density PE
Insulation Diameter	1.12 ± 0.08 mm
Screening Material	Mylar +Al/Mylar
Inner Sheath Material	PVC
Inner Sheath Thickness	0.55±0.1mm
Inner Sheath Color	Black
Inner Sheath O.D	7.4mm
Outer Sheath Material	UV PVC
Outer Sheath Thickness	0.55±0.01mm
Outer Sheath External O.D	8.7±0.5mm
Outer Sheath Color	Black
Color Code	Per TIA/EIA 568-B
Rip-cord	Yes
Drain Wire	Yes



CATEGORY 6 F/UTP 4 PAIR 23 AWG INNER PVC/OUTER HDPE JACKET EXTERNAL CABLE



MECHANICAL, ELECTRICAL & TRANSMISSION CHARACTERISTICS

Before Aging Tensile Strength (Mpa)	≥ 13.5
Before Aging Elongation	≥ 150%
Aging Period	100°C×24h×7d
After Aging Tensile Strength (Mpa)	≥ 12.5
After Aging Elongation	≥ 125%
Cold Bend (-20±2°C×4h)	No visible cracks
Impedance	100±15 Ω
Delay Skew	≤45 ns/100m
Unbalanced-to-ground capacitance max	330 pf/100m
DC Resistance Max	9.38 Ω/100m
DC Conductor Resistance Unbalance Max	5.0%
Operating Temperature Range	0°C to +60°C
Storage Temperature Range	-20°C to +60°C

ELECTRICAL PERFORMANCE CHARACTERISTICS

Cat. 6 Unscreened Pair Horizontal Cables*

Freq. MHz	RL dB	Attenuation dB	NEXT dB	DELAY ns	PS NEXT dB	ELFEXT dB	PSELFEXT dB
1	20.0	-	74.3	570.00	72.3	67.8	64.8
4	23.0	3.78	65.3	552.00	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	541.20	51.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8

ORDERING INFORMATION

Part Number	Description	Standard Length
113-2031A204X	Category 6 F/UTP 4 Pair 23 AWG Inner PVC/Outer UV PVC Jacket external Cable	305 mtr
113-2031H204X	Category 6 F/UTP 4 Pair 23 AWG Inner PVC/Outer HDPE Jacket external Cable	305 mtr