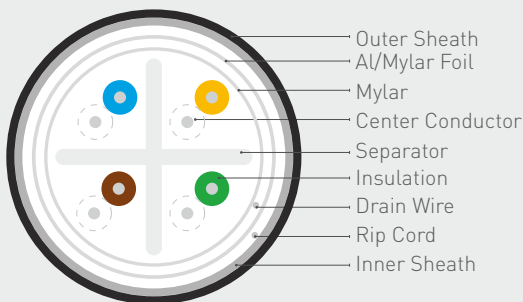
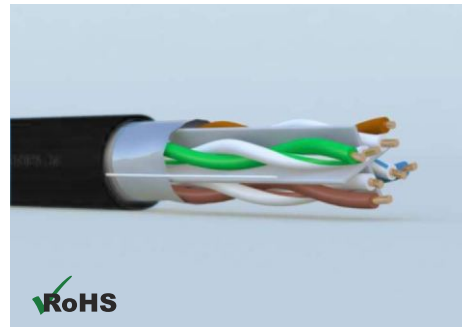


# CATEGORY 6 F/UTP 4 PAIR 24 AWG DOUBLE LAYER PE JACKET EXTERNAL CABLE

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 upto 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 double layer PE Jacket and used in external applications.



## COMPLIANCE

ANSI/TIA-568-C.2:2009 Category 6  
ISO/IEC-11801, Class E  
IEEE 802.af, IEEE 802.3at for PoE application

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	24 AWG
Conductor Nom.O.D	0.520mm
Drain wire	Tinned Copper, 0.40mm
Insulation Material	High Density PE
Insulation Diameter	1.05±0.05 mm
Screening Material	Mylar +Al/Mylar foil
Inner Sheath Material	LDPE
Inner Sheath Thickness	0.55 mm
Inner Sheath Color	Black
Outer Sheath Material	LDPE
Outer Sheath Thickness	0.60±0.05mm
Outer Sheath External O.D.	8.2±0.5mm
Outer Sheath Color	Black
Color Code	Per TIA/EIA 568-B
Rip-cord	Yes

# CATEGORY 6 F/UTP 4 PAIR 24 AWG DOUBLE LAYER PE JACKET EXTERNAL CABLE

## MECHANICAL, ELECTRICAL & TRANSMISSION CHARACTERISTICS

Before Aging Tensile Strength (Mpa)	≥ 10.0
Before Aging Elongation	≥ 350%
Aging Period	100°C×24h×10d
After Aging Elongation	≥ 300%
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	-10°C to +65°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	-	74.3	570	72.3	68	65
4	23	3.78	65.3	552	63.3	56	53
8	24.5	5.32	60.8	546.73	58.7	49	46.9
10	25	5.95	59.3	545.38	57.3	48	45
16	25	7.55	56.2	543	54.2	43.9	40.9
20	25	8.47	54.8	542.05	52.8	42	39
25	24.3	9.51	53.3	541.2	51.3	40	37
31.25	23.6	10.67	52.0	540.44	49.9	38.1	35.1
62.5	21.5	15.38	47.4	538.55	45.4	32.1	29.1
100	20.1	19.8	44.3	537.6	42.3	28	25
200	18	28.98	39.8	536.54	37.8	22	19
250	17.3	32.85	38.3	536.27	36.3	20	17

## ORDERING INFORMATION

Part Number	Description	Standard Length
120-20233204X	Category 6 F/UTP 4 Pair 24 AWG Double Layer PE Jacket External Cable	305 mtr

## PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
120-20233204X	Ply Reel	32.6	35.8	460 x 460 x 260