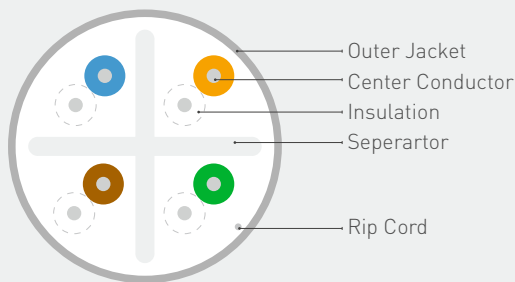
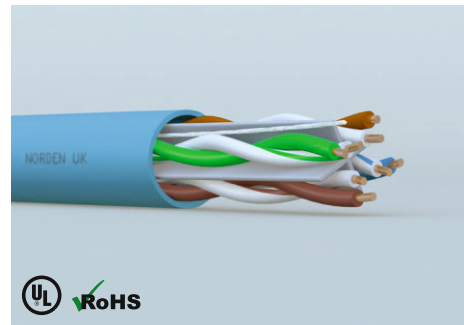


CATEGORY 6 UNSHIELDED 4 PAIR CABLE FR-PVC

Norden Category 6 Unshielded cables exceed Category 6/Class E specification. It is tested to 250MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications to full 100m. The cables are constructed with a flame-retardant (FR) PVC jacket, providing enhanced fire safety in commercial installations. Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to U/UTP (Unshielded Twisted Pair) cabling systems.



COMPLIANCE

IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt for PoE applications
 IEEE 802.3an :2006 (10GBASE-T)
 ANSI/TIA-568.2-D Category 6
 ISO/IEC-11801, Class E / IEC 61156-5: Category 6.
 IEC 60332-1

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	1.02±0.05 mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Pair Separator	Cross-member(+) fluted spline
Outer Jacket	FR-PVC
Outer Jacket Thickness & Ex. Diameter	0.55±0.05 mm, 6.3±0.4 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement



CATEGORY 6 UNSHIELDED 4 PAIR CABLE FR-PVC

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 Ω ±15
DC Resistance	75 Ω/km
Max. Operating Voltage	80 V
Max. Resistance Unbalance	4 %
Capacitance	5.6 nF/100m max.
Capacitance Unbalance	3.3 pF/m max.
Propagation Delay Skew	35 ns/100m max.
Velocity of Propagation	69 %
Dielectric Strength	1 KV/minute
Min. Insulation Resistance	5 GΩ•km
Max. Tensile Strength - Short Term	110 N
Min. Bend Radius	53.6 mm
Operating Temperature Range	-20°C to +70°C

TRANSMISSION PERFORMANCE

Cat. 6 Un-screened Pair Horizontal Cables*

Freq. (Mhz)	ATTN (dB/100m)	RL (dB)	NEXT (dB)	ELFEXT (dB/100m)	PS NEXT (dB/100m)	PS ELFEXT (dB/100m)
1	2.0	20.0	74.3	67.8	72.3	64.8
4	3.8	23.0	65.3	55.8	63.3	52.8
8	5.3	24.5	60.8	49.7	58.8	46.7
10	6.0	25.0	59.3	47.8	57.3	44.8
16	7.6	25.0	56.2	43.7	54.2	40.7
20	8.5	25.0	54.8	41.8	52.8	38.8
25	9.5	24.3	53.3	39.8	51.3	36.8
31.25	10.7	23.6	51.9	37.9	49.9	34.9
62.5	15.4	21.5	47.4	31.9	45.4	28.9
100	19.8	20.1	44.3	27.8	42.3	24.8
200	29.0	18.0	39.8	21.8	37.8	18.8
250	32.8	17.3	38.3	19.8	36.3	16.8

ORDERING INFORMATION

Part Number	Description	Standard Length
113-11004104X	Category 6 Unshielded 4 Pair Cable FR-PVC	305 mtr

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