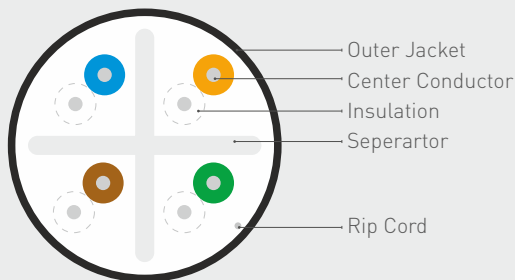
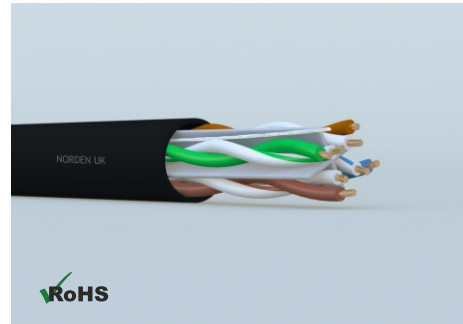


CATEGORY 6 U/UTP 23 AWG 4 PAIR INDUSTRIAL CABLE CMR RATED



Norden Category 6 UTP industrial grade cables exceed Category 6 / Class E specification. It is tested up to 600 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications up to 100m. This cable is having industrial grade PVC Jacket which are CMR Fire rated, Oil and UV Resistant for external application.

Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to UTP (Unshielded Twisted Pair) cabling systems.



COMPLIANCE

IEEE 802.3af, IEEE 802.3at for PoE applications
ANSI/TIA-568.2-D Category 6
ISO/IEC-11801, Class E / IEC 61156-5: Category 6.

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	PO (Polyolefin)
Insulation Diameter	1.02±0.03 mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Overall Drain-Wire Material	N/A
Overall Drain-Wire Size	N/A
Overall Drain-Wire Construction	N/A
Outer Jacket	Industrial Grade PVC
Outer Jacket Diameter	7.75±0.4 mm
Outer Jacket Colour	Black
Marking	Per Requirement



CATEGORY 6 U/UTP 23 AWG 4 PAIR INDUSTRIAL CABLE CMR RATED



ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	100 Ω \pm 15
Coupling Attenuation	40 dB min @ 30-100 MHz 40-20 Log (f/100) @100-300 MHz
DC Resistance	73 Ω /km nom.
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 G Ω •km
Max. Tensile Strength - Short Term	200 N
Min. Bend Radius	53.6 mm
Operating Temperature Range	-40°C to +75°C

TRANSMISSION PERFORMANCE

Cat. 6 Un-screened Pair Horizontal Cables*

Freq. MHz	Max. Attenuation dB/100m @ 20°C	Min. NEXT dB	Min. PSNEXT dB	Min. RL dB	Min. ELFEXT dB	Min. PSELFEXT dB
1	1.9	82.3	80.3	20.0	73.8	70.8
4	3.6	73.3	71.3	23.0	61.8	58.8
10	5.7	67.3	65.3	25.0	53.8	50.8
20	8.1	62.8	60.8	25.0	47.8	44.8
31.25	10.2	59.9	57.9	25.0	43.9	40.9
100	18.9	52.3	50.3	25.0	33.8	30.8
155	23.9	49.5	47.5	22.8	30.0	27.0
200	27.5	47.8	45.8	21.7	27.8	24.8
250	31.2	46.3	44.3	20.5	25.8	22.8
300	34.5	43.2	41.2	20.2	24.3	21.3
350	37.7	42.2	40.2	19.8	22.9	19.9
400	40.6	41.3	39.3	19.5	21.8	18.8
450	43.5	40.5	38.5	18.9	20.7	18.8
500	46.2	39.8	37.8	18.4	16.8	18.4
550	48.8	39.2	37.2	18.0	16.0	18.0
600	51.4	38.6	36.6	17.6	18.2	15.2

*Supplied cables meets Cat. 6 min. transmission requirements as per IEC 61156-5 Ed. 2

ORDERING INFORMATION

Part Number	Description	Standard Length
113-6400N104X	Category 6 U/UTP 23 AWG 4 Pair Industrial Cable CMR Rated	305 mtr

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

PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
113-6400N104X	Pulley Box	15.2	17.3	400 x 400 x 220

