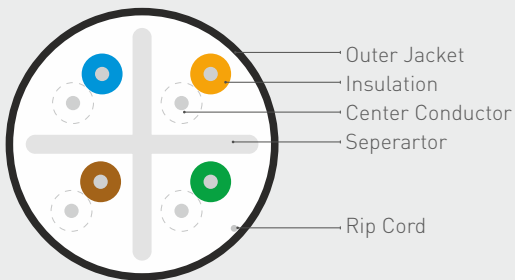
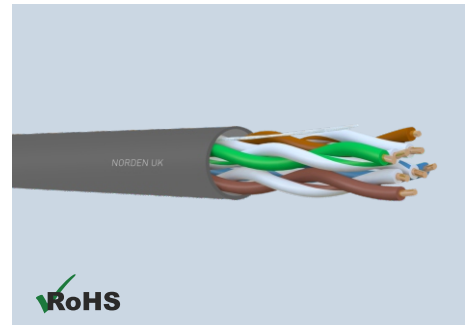


CATEGORY 6 U/UTP 23AWG 4 PAIR CABLE

Norden Category 6 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 UTP (Unshielded Twisted Pair) cabling systems. The cable is resistant to termites, pests, rodents, and corrosion, and is designed to withstand exposure to water, chemicals, oils, dust, sunlight, and vibrations. These external cables are ideal for industrial use and in direct sunlight.



COMPLIANCE

IEEE 802.3bt for PoE applications
IEEE 802.af, IEEE 802.3at for PoE applications
ANSI/TIA-568.2-D Category 6
ISO/IEC-11801, Class E
IEC 61156-5: Category 6
LSZH: IEC 60332-1, IEC 60754, IEC 61034

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	1.0 ± 0.05mm
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Outer Jacket Diameter	6.0 ± 0.30 mm
Outer Jacket Thickness	0.5 ± 0.05mm
Outer Jacket Colour	Grey
Separator	Yes
Outer Jacket Property	FR LSZH: Resistant To Termites, Pests, Rodents, Corrosion & Withstand Water, Chemicals, Oils, Dust, Sunlight, Vibration

CATEGORY 6 U/UTP 23AWG 4 PAIR CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 Ω $\pm$ 15%
DC Resistance	93.8 Ω /km @20°C Max
Max. Resistance Unbalance	5% Max
Mutual Capacitance	5.6 nF/100m max
Capacitance Unbalance	330 pF/100m max.
Propagation Delay Skew	45 ns/100m max
Velocity of Propagation	69%
Min. Insulation Resistance	5 G Ω •km
Max.Tensile Strength - Short Term	100 N
Min. Bend Radius	8 x OD
Operating Temperature Range	-20°C +75°C
Sheath Normal Temp Tensile Strength	12.5 N/mm ² Min
Sheath Normal Temp Elongation	150 % Min
Insulation Normal Temp Tensile Strength	10 N/mm ²
Insulation Normal Temp Elongation	300% Min
Sheath After Aging Tensile Strength	$\pm$ 20%
Sheath After Aging Elongation	$\pm$ 20%
Temperature Rating	-15°C + 70°C
Cold Bend	-20

TRANSMISSION PERFORMANCE

Cat. 6 Un-screened Pair Horizontal Cables*

Freq. MHz	Attenuation dB/100m max.	NEXT (dB) min.	PSNEXT (dB) min.	ACRF (dB @100m) min.	PS.ACRF (dB @100m) min.	Return Loss (dB/100m)
1	2.1	65.0	62.0	63.3	60.3	19.0
4	4.0	63.0	60.5	51.2	48.2	19.0
8	5.7	58.2	55.6	45.2	42.2	19.0
10	6.3	56.6	54.0	43.3	40.3	19.0
16	8.0	53.2	50.6	39.2	36.2	18.0
20	9.0	51.6	49.0	37.2	34.2	17.5
25	10.1	50.0	47.3	35.3	32.3	17.0
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14.0
100	21.3	39.9	37.1	23.3	20.3	12.0
200	31.5	34.8	31.9	17.2	14.2	9.0
250	35.9	33.1	30.2	15.3	12.3	8.0

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

ORDERING INFORMATION

Part Number	Description	Standard Length
113-2000I104X	Category 6 U/UTP 4 Pair 23 AWG Outdoor Cable FRLSZH	305 mtr