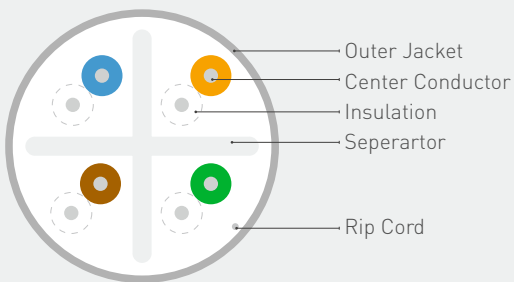
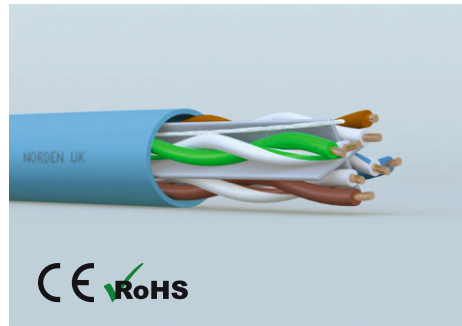


CATEGORY 6 U/UTP 23 AWG 4 PAIR CABLE E-SERIES

Norden Category 6 UTP cables exceed Category 6/Class E specifications. They are tested up to a 250 MHz frequency range and are designed to support Gigabit 1000Base-T and 1000Base-Tx applications up to 100 meters. These cables are channel-tested.

They feature extremely high pair balance, providing excellent EMC (Electro-Magnetic Compatibility), minimizing radiation, maximizing noise immunity, and delivering high alien crosstalk performance for UTP (Unshielded Twisted Pair) cabling systems.



COMPLIANCE

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.
LSOH: IEC 60332-1, IEC 60754, IEC 61034

PRODUCT CLASSIFICATION

Product Sequence	E Series
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid Bare Electrolytic Grade Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	$0.99 \pm 0.05\text{mm}$
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Outer Jacket	FRPVC/LSOH
Outer Jacket Thickness & Ex. Diameter	$0.55 \pm 0.05\text{ mm}$, $6.10 \pm 0.30\text{ mm}$

CATEGORY 6 U/UTP 23 AWG 4 PAIR CABLE E-SERIES

ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	100 Ω $\pm$ 15%
DC Resistance	93.8 Ω /km
Max. Resistance Unbalance	5 %
Capacitance	5.6 nF/100m max.
Capacitance Unbalance Pair/Ground	330pF/100m max.
Propagation Delay Skew	45ns/100m
Velocity of Propagation	69 %
Min. Insulation Resistance	5000 Ω -km
Max. Tensile Strength - Short Term	110 N Max.
Min. Bend Radius	8 x OD
Operating Temperature Range	-20°C to +70°C

TRANSMISSION PERFORMANCE

Frequency (Mhz)	ATT (dB/100m) max.	NEXT (dB) min.	PS.NEXT (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
113-40001104X	Category 6 U/UTP 23 AWG 4 Pair Cable FRPVC E Series	305 mtr
113-40002104X	Category 6 U/UTP 23 AWG 4 Pair Cable LSOH E Series	305 mtr

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