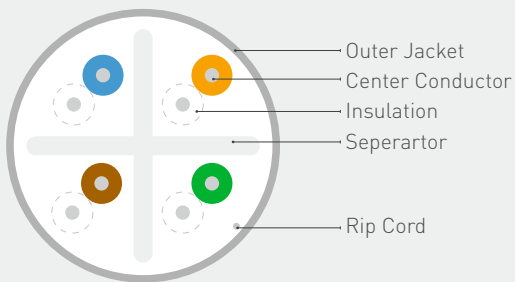
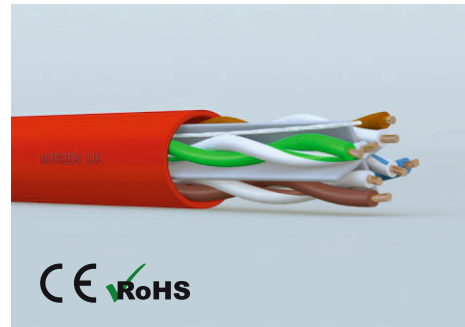


CATEGORY 6 U/UTP 24AWG 4 PAIR CABLE E-SERIES

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.

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.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	24 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	0.94±0.05 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 ± 0.05 mm , 5.70 ± 0.30 mm

CATEGORY 6 U/UTP 24AWG 4 PAIR CABLE E-SERIES

ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	100Ω ±15%
DC Resistance	98Ω/km norm.
Max. Resistance Unbalance	5%
Capacitance	5.6 nF/100m max
Capacitance Unbalance Pair/Ground	330 pF/100m max.
Propagation Delay Skew	45 ns/100m max
Velocity of propagation	69%
Min. Insulation Resistance	5000Ω-km
Max.Tensile Strength - Short Term	110 N Max.
Min. Bend Radius	8 x OD
Operating Temperature Range	-15°C +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
120-40001104X	Category 6 U/UTP 24 AWG 4 Pair Cable FRPVC E Series	305 mtr
120-40002104X	Category 6 U/UTP 24 AWG 4 Pair Cable LSOH E Series	305 mtr

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