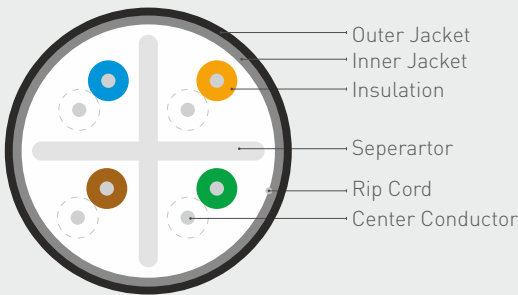
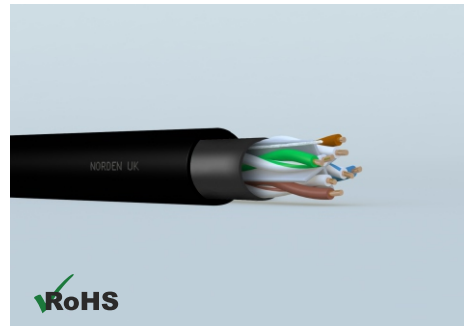


CATEGORY 6 U/UTP 4 PAIR DOUBLE JACKET EXTERNAL CABLE PE E-SERIES



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. The cable is composed of HDPE-insulated, solid bare electrolytic-grade copper, with a cross separator, rip cord, and PE inner and outer sheaths.



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

PRODUCT CLASSIFICATION

Product Sequence	E-Series
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid Bare Electrolytic Grade Copper
Conductor Size	23AWG
Conductor Construction	Solid
Insulation Material	HDPE
Insulation Diameter	1.00 ± 0.05mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Cross filler	Yes
Rip Cord	Yes
Polyester Tape	Yes
Inner Jacket	PE
Outer Jacket	PE
Outer Jacket Colour	Black
Outer Jacket Thickness & Ex. Diameter	0.55 ± 0.10mm, 7.10 ± 0.30mm
Marking	At Every Meter

CATEGORY 6 U/UTP 4 PAIR DOUBLE JACKET EXTERNAL CABLE PE E-SERIES



ELECTRICAL & MECHANICAL CHARACTERISTICS

Conductor DC Resistance @20°C	Max. 9.38Ω/100M
Conductor Resistance Unbalance	Max. 5 %
Mutual Capacitance @1KHZ	Max. 5.6 nF/100M
Insulation Resistance	5000 MΩ.Km
Dielectric Strength	1.5KV AC for 1Min
Capacitance Earth Unbalance	Max. 330 pF/100M
Propagation DeLay Skew 1 – 250 MHz	Max. 45 ns/100 m
Nominal velocity of propagation	69 %
Bending radius	8 x OD
Breaking strength	100N
Rated Voltage	72V DC
Characteristic Impedance (1-250 MHz)	100 ± 15Ω
Temperature Range	-15°C to +70°C

TRANSMISSION PERFORMANCE

Cat. 6 Un-screened Pair Horizontal Cables*

Freq. MHz	Attenuation dB/100m	NEXT dB	PSNEXT dB	ACRF dB/100m	PS.ACRF dB/100m	Return Loss dB/100m
	Max.	Min.	Min.	Min.	Min.	Min.
1.0	2.1	65	62	63.3	60.3	19.0
4.0	4	63	60.5	51.2	48.2	19.0
8.0	5.7	58.2	55.6	45.2	42.2	19.0
10.0	6.3	56.6	54	43.3	40.3	19.0
16.0	8	53.2	50.6	39.2	36.2	18.0
20.0	9	51.6	49	37.2	34.2	17.5
25.0	10.1	50	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

ORDERING INFORMATION

Part Number	Description	Standard Length
113-50233104X	Category 6 U/UTP 4 Pair Double Jacket External Cable PE E-Series	305 mtr

X: BK(Black)