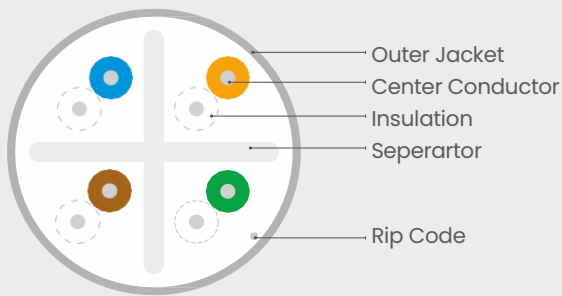
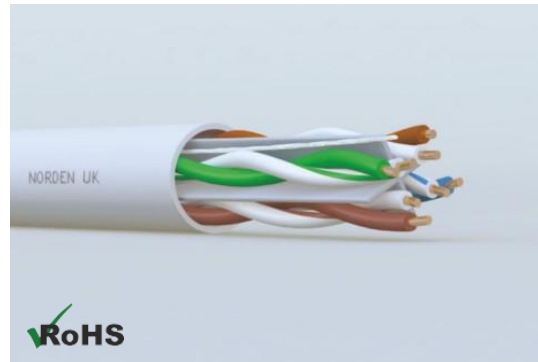


CATEGORY 6A U/UTP 4 PAIR CABLE PVDF

Norden Category 6A U/UTP cables surpass the requirements of Category 6A/Class EA standards. Engineered for high-performance networking, they are tested up to 500 MHz and fully support 10 Gigabit Ethernet applications over distances of up to 100 meters. The cable's exceptional pair-balance delivers superior electromagnetic compatibility (EMC), minimizing signal radiation and external interference while enhancing noise immunity and alien crosstalk performance in U/UTP cabling systems. The use of a PVDF (Polyvinylidene Fluoride) outer jacket makes these cables highly durable and well-suited for sub-zero environments, offering excellent mechanical stability, flexibility, and resistance to harsh weather conditions.



COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568.2-D Category 6A ISO/
IEC-11801, 2nd Edition Class EA IEC
61156-5:2002 Category 6A

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23AWG
Conductor Construction	Solid
Insulation Material	FEP
Insulation O.D.	1.00 ± 0.05 mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Conductor Unit Lay-Up	Pairs
Total Number of Wires	8
Separator	FEP Crossweb
Rip Cord	Yes, Kevlar
Outer Jacket Material	PVDF
Outer Jacket Thickness	0.4 mm
Outer Diameter	6.15 ± 0.2 mm



ELECTRICAL & MECHANICAL CHARACTERISTICS

Delay Skew	45 ns/100m
Characteristic Impedence	100 Ω ± 15% @ 1-100 MHz , 100 Ω ± 22% @ 101-250 MHz , 100 Ω ± 25% @ 250-500 MHz
Nom. DC Resistance	9.38 Ohms/100m
Resistance Unbalance	≤ 5%
Nom. Capacitance	5.6 nF/100m
Dielectric Strength	1.5 KV/ minute min.
Velocity of Propagation	≥ 67%
Voltage Rating	300 V
Temperature Rating	-40°C to +75°C

TRANSMISSION PRFORMANCE

Cat. 6A Un-screened Pair Horizontal Cables*

Frequency [MHz]	Attenuation [dB/100m]	NEXT [dB]	ACRF [dB]	PS.NEXT [dB]	PS.ACRF [dB]	RL [dB]	Delay [ns/100m]
1	2.1	74.3	67.8	72.3	64.8	20.0	70
4	3.8	65.3	55.8	63.3	52.8	23.0	552
8	5.3	60.8	49.7	58.8	46.7	24.5	547
10	5.9	59.3	47.8	57.3	44.8	25.0	545
16	7.5	56.2	43.7	54.2	40.7	25.0	543
20	8.4	54.8	41.8	52.8	38.8	25.0	542
25	9.4	53.3	39.8	51.3	36.8	24.3	541
31.25	10.5	51.9	37.9	49.9	34.9	23.6	540
62.5	15.0	47.4	31.9	45.4	28.9	21.5	539
100	19.1	44.3	27.8	42.3	24.8	20.1	538
200	27.6	39.8	21.8	37.8	18.8	18.0	537
250	31.1	38.3	19.8	36.3	16.8	17.3	536
300	34.3	37.1	18.3	35.1	15.3	16.8	536
400	40.1	35.3	15.8	33.3	12.8	15.9	536
500	45.3	33.8	13.8	31.8	10.8	15.2	536

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

ORDERING INFORMATION

Part Number	Description	Standard Length
114-10000104X	Cat 6A U/UTP 4 Pair Cable PVDF	305 mtr