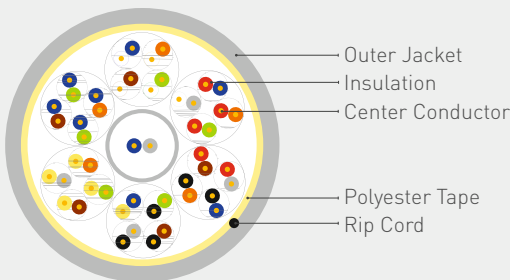


# CATEGORY 5 U/UTP MULTI PAIR CABLE

Norden Category 5 Multipair cables exceed Category 5 / Class D specification. It is a high performance cable suitable for 100Base-T, Gigabit Ethernet, 155 Mbps ATM, TP-PMD audio, multimedia and telephone networks.

By design, Norden cables are manufactured to the highest quality standards, design requirements and materials to ensure that every box provides significant margin over ANSI/TIA-568.2-D specifications for NEXT, Power Sum NEXT and Insertion Loss across the entire channel.



## COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications  
 ANSI/TIA-568.2-D Category 5  
 ISO/IEC-11801, Class D  
 IEC 61156-5: Category 5

## PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	0.50 mm, 24 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	0.88±0.2 mm
Rip Cord	Yes
Drain Wire	N/A
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Outer Jacket	PVC
Outer Jacket thickness & Ex. Diameter	0.55±0.05 mm, 7.8±0.5 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

# CATEGORY 5 U/UTP MULTI PAIR CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 100 MHz
Impedance	100 Ω ±15
Coupling Attenuation	40 dB min @ 30-100 MHz
Max. DC Resistance	101.3 Ω/km @ 20°C
Max. Resistance Unbalance	5 %
Capacitance	5.6 nF/100m max.
Capacitance Unbalance	3.3 pF/m max.
Velocity of Propagation	69 %
Propagation Delay Skew	25 ns/100m max.
Dielectric Strength	1 KV/minute
Min. Insulation Resistance	5 GΩ•km
Max. Tensile Strength - Short Term	110 N
Min. Bend Radius (Full Load)	20xD
Operating Temperature Range	-20 °C +60 °C

## TRANSMISSION PERFORMANCE

Cat. 5 Un-screened Pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB	PHASE DELAY ns
1	2	65.3	62.3	20.0	63.8	60.8	570
4	4.1	56.3	53.3	23.0	51.8	48.8	552
8	5.8	51.8	48.8	24.5	45.7	42.7	546.73
10	6.5	50.3	47.3	25.0	43.8	40.8	545.38
16	8.2	47.2	44.4	25.0	39.7	36.7	543
20	9.3	45.8	42.8	25.0	37.8	34.8	542.05
25	10.4	44.3	41.3	24.3	35.8	32.8	541.2
31.25	11.7	42.9	39.9	23.6	33.9	30.9	540.44
62.5	17	38.4	35.4	21.5	27.9	24.9	538.55
100	22	35.3	32.3	20.1	23.8	20.8	537.6

\*Supplied cables meets Cat. 5 min. transmission requirements of IEC 61156-5 Ed. 2

## ORDERING INFORMATION

Part Number	Description	Standard Length
11D-10001110X	Category 5 U/UTP 10 Pair Cable PVC	500 mtr
11D-10001125X	Category 5 U/UTP 25 Pair Cable PVC	500 mtr
11D-10001150X	Category 5 U/UTP 50 Pair Cable PVC	500 mtr

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

## PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
11D-10001110X	Plywood Reel	50.0	75.0	780 x 780 x 300
11D-10001125X	Plywood Reel	75.0	90.0	780 x 780 x 300
11D-10001150X	Plywood Reel	330.0	366.0	1100 x 1100 x 1020