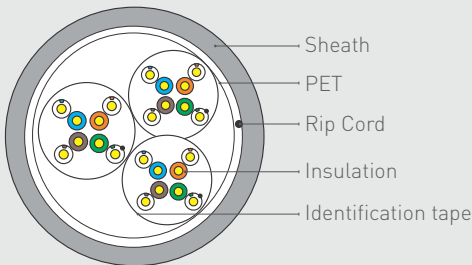
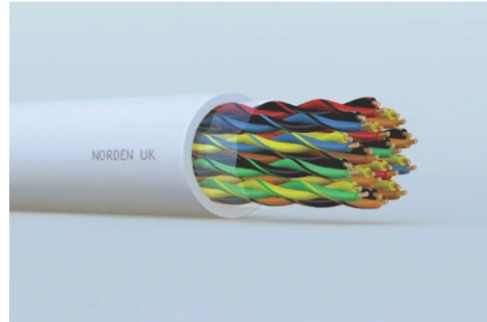


# CATEGORY 5E U/UTP 12 PAIR UNSHIELDED EXTERNAL CABLE

Norden Category 5e Multi pair cables exceed Category 5e / Class D specification. It is tested to 100 MHz frequency range and designed to support Gigabit 1000Base-T applications up to 100m. Norden Category 5e Multi pair cables are useful in backbone cabling and helps in avoiding multiple runs of cable.

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-C.2 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-C.2 Category 5e  
 ISO/IEC-11801, Class D  
 IEC 61156-5: Category 5e

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	SOLID-Bare Copper
Conductor Size	0.500 mm, 24 AWG
Insulation Material	HD PE
Insulation Diameter	0.90±0.04mm
Screen	PET Tape
Rip-cord	Yes
Drain wire	No
Sheath Material	PE
Sheath Thickness	0.95±0.2 mm
Sheath External O.D.	9.6±0.8 mm
Sheath Surface	Clean, Frap, Satiation
Marking	Per Requirement
Outer Jacket Colour	Per Requirement

# CATEGORY 5E U/UTP 12 PAIR UNSHIELDED EXTERNAL CABLE

## MECHANICAL, ELECTRICAL CHARACTERISTICS

Tensile Strength (Before Aging)	≥ 13.5(Mpa)
Tensile Strength (After Aging)	≥ 12.5(Mpa)
Elongation (Before Aging)	≥ 150%
Elongation (After Aging)	≥ 125%
Aging Period	100°C × 24h × 7d (°C × hrs)
DC Resistance @ 20°C max	9.5 (Ω /100m)
DC Conductor Resistance Unbalance max	5.0%
Velocity of Propagation	69%
Characteristic impedance	100±15 Ω
Delay Skew @ 20°C	≤ 45 ns/100m
Operating Temperature	-30C to +60C°

## ELECTRICAL PERFORMANCE CHARACTERISTICS

Freq. (Mhz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	PS NEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	19.0	3.0	60.0	521	57.0	58.6	55.6
4.0	19.0	3.9	54.8	504	51.8	46.6	43.6
8.0	19.0	5.5	50.0	500	47.0	40.6	37.5
10.0	19.0	6.2	48.5	498	45.5	38.6	35.6
16.0	19.0	7.9	45.2	496	42.2	34.5	31.5
20.0	19.0	8.9	43.7	495	40.7	32.6	29.6
25.0	18.0	10.0	42.1	495	39.1	30.7	27.7
31.25	17.1	11.2	40.5	494	37.5	28.7	25.7
62.5	14.1	16.2	35.7	492	32.7	22.7	19.7
100	12.0	21.0	32.3	491	29.3	18.6	15.6

\*Supplied cables meet the minimum Cat. 5e transmission requirements as per IEC 61156-5 Ed. 2

## COLOR CODE

Bl./ Wh.-Bl.	Br./Wh.-Br.	Ora./ Re.-Ora.	Gr./ Re.-Gr.
Ora./Wh.-Ora.	Gr./Wh.-Gr.	Gn./ Re.-Gn.	Bl./ Bla.-Bl.
Gn./Wh.-Gn.	Bl./ Re.-Bl.	Br./Re.-Br.	Ora./ Bla.-Ora.

## ORDERING INFORMATION

Part Number	Description	Standard Length
112-21003112X	Category 5E U/UTP 12 Pair Unshielded External Cable	1000 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 (Cm)
112-21003112X	Drum in Carton	95.0	105.0	76 x30 x 50