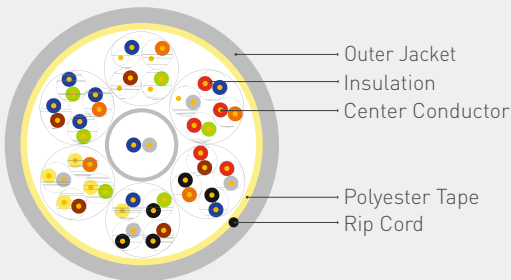


CATEGORY 5E U/UTP MULTI PAIR CABLE

Norden Category 5e Multipair cables exceed Category 5e / Class D specification. It is tested to 100 MHz frequency range and designed to support Gigabit 1000Base-T applications upto 100m. Norden Category 5e Multipair 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-568.2-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 5e
 ISO/IEC-11801, Class D
 IEC 61156-5: Category 5e
 LSZH: IEC 60332-1, IEC 60754, IEC 61034

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	0.51 mm, 24 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	0.88±0.2 mm, 0.91±0.05mm[CMR]
Wrapping	PET Tape
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	LSZH/PVC/CMR-PVC
Outer Jacket thickness & Ex. Diameter	0.55±0.05 mm, 7.8±0.5 mm, 1.0±0.2 mm, 13.2±0.8mm[CMR]
Outer Jacket Colour	Per Requirement
Marking	Per Requirement



CATEGORY 5E U/UTP MULTI PAIR CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 100 MHz
Impedance	100 Ω \pm 15
Coupling Attenuation	40 dB min @ 30-100 MHz
Max. DC Resistance	94 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 G Ω •km
Max. Tensile Strength - Short Term	110 N
Min. Bend Radius	58 mm
Operating Temperature Range	-30 °C +60 °C

TRANSMISSION PERFORMANCE

Cat. 5e Un-screened Pair Horizontal Cables*

Freq. MHz	RL \geq dB	ATT \leq dB	NEXT \geq dB	DELAY \leq ns	PSNEXT \geq dB	ACRF \geq dB	PSACRF \geq dB
1	17	3	60	580	57	57.4	54.4
4	17	4.5	53.5	562	50.5	45.4	42.4
8	17	6.3	48.6	557	45.6	39.3	36.3
10	17	7.1	47	555	44	37.4	34.4
16	17	9.1	43.6	553	40.6	33.3	30.3
20	17	10.2	42	552	39	31.4	28.4
25	16	11.4	40.3	551	37.3	29.4	26.4
31.25	15.1	12.9	38.7	550	35.7	27.5	24.5
62.5	12.1	18.6	33.6	549	30.6	21.5	18.5
100	10	24	30.1	548	27.1	17.4	14.4

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

ORDERING INFORMATION

Part Number	Description	Standard Length
112-11001110X	Category 5e U/UTP 10 Pair Cable PVC	500 mtr
112-11001125X	Category 5e U/UTP 25 Pair Cable PVC	500 mtr
112-11001150X	Category 5e U/UTP 50 Pair Cable PVC	500 mtr
112-10002110X	Category 5e U/UTP 10 Pair Cable LSZH	500 mtr
112-10002125X	Category 5e U/UTP 25 Pair Cable LSZH	500 mtr
112-10002150X	Category 5e U/UTP 50 Pair Cable LSZH	500 mtr
112-14001125X	Category 5e U/UTP 25 Pair Cable CMR	305 mtr

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

CATEGORY 5E U/UTP MULTI PAIR CABLE

PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
112-11001110X	Plywood Reel	50.0	75.0	780 x 780 x 300
112-11001125X	Plywood Reel	75.0	90.0	780 x 780 x 300
112-11001150X	Plywood Reel	330.0	366.0	1100 x 1100 x 1020
112-10002110X	Plywood Reel	52.0	77.0	780 x 780 x 300
112-10002125X	Plywood Reel	77.0	93.0	780 x 780 x 300
112-10002150X	Plywood Reel	334.0	370.0	1100 x 1100 x 1020