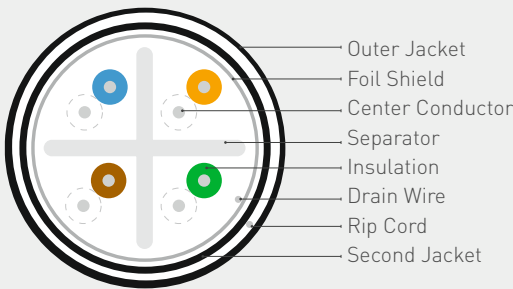
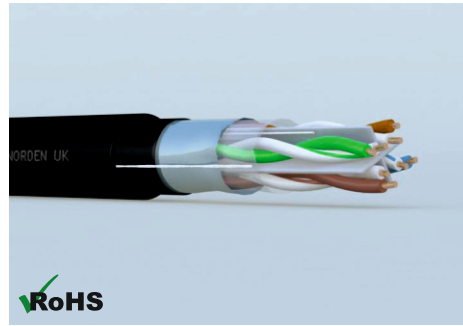


CATEGORY 5E DOUBLE JACKET CABLE

Norden Category 5e Double jacket 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 D/J cables used in digital distribution frames in transmission stations, fixed & portable indoor applications, harsh environmental outdoor applications with UV rated FR PVC outer Jacket .

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-568.2-D Category 5e
 ISO/IEC-11801, Class D
 IEC 61156-5: Category 5e

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	1.03±0.2 mm
Ind.Shield Material	Aluminium Foil (F/UTP cable)
Rip Cord	Yes
Drain Wire	Yes (F/UTP cable)
Drain Wire Material & Thickness	Tinned copper 0.45 mm
Conductor Unit Identification	Solid/stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Inner Jacket & Thickness	FR PVC 0.55±0.2 mm
Outer Jacket	LSZH/FR PVC/PE
Outer Jacket Thickness & Ex. Diameter	0.60±0.01 mm, 7.5±0.5 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement



CATEGORY 5E DOUBLE JACKET CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 100 MHz
Impedance	100 Ω ±15
Coupling Attenuation	40 dB min @ 30-100 MHz
Max. Dc Resistance	93 Ω/km @ 20 °C
Max. Resistance Unbalance	5 %
Capacitance	5.6 nF/100m max.
Capacitance Unbalance	1.7 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	60 mm
Operating Temperature Range	-30 °C +60 °C

TRANSMISSION PERFORMANCE

Cat. 5e Horizontal Cables*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB
1	1.8	73.8	71.8	25.0	78.8	76.8
4	3.6	64.8	62.8	28.0	66.8	64.8
10	5.8	55.3	53.3	28.0	58.8	56.8
20	8.3	53.8	52.8	28.0	52.8	50.8
31.25	10.5	50.9	48.1	27.8	50.0	48.3
62.5	15.3	46.4	44.6	26.1	43.0	41.4

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

ORDERING INFORMATION

Part Number	Description	Standard Length
112-21244104X	Category 5e U/UTP 4 Pair D/J Cable FR PVC/ FR PVC	500 mtr
112-21213104X	Category 5e U/UTP 4 Pair D/J Cable PVC/ PE	500 mtr
112-21244204X	Category 5e F/UTP 4 Pair D/J Cable FR PVC/ FR PVC	500 mtr
112-21213204X	Category 5e F/UTP 4 Pair D/J Cable PVC/ PE	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)
112-21244104X	Plywood Reel	29.5	32.5	460 x 460 x 260
112-21213104X	Plywood Reel	30.2	32.9	460 x 460 x 260
112-21244204X	Plywood Reel	32.1	35.0	460 x 460 x 260
112-21213204X	Plywood Reel	32.6	35.8	460 x 460 x 260

