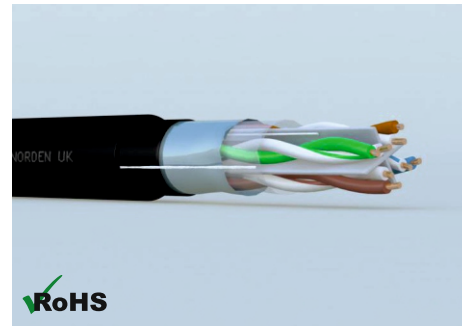


CATEGORY 5E F/UTP DOUBLE JACKET CABLE

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-568.2-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

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
Rip Cord	Yes
Drain Wire	Yes
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 / PVC, 0.55±0.2 mm
Outer Jacket	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 F/UTP 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 to +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
112-21254204X	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)
112-21254204X	Plywood Reel	32.1	35.0	460 x 460 x 260
112-21213204X	Plywood Reel	32.6	35.8	460 x 460 x 260