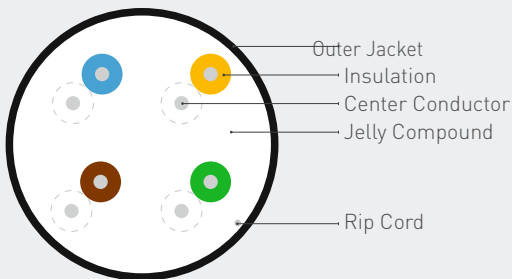
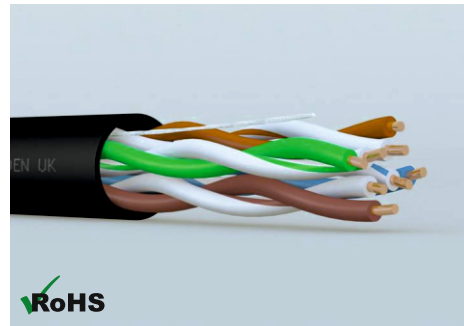


# CATEGORY 5E U/UTP 4 PAIR EXTERNAL J/F CABLE

Norden Category 5e External Jelly filled cables exceed Category 5e / Class D specification and come with UV resistant PE jacket. It is tested to 100 MHz frequency range and designed to support Gigabit 1000Base-T applications upto 100m. Norden Category 5e external Jelly filled cables standard packing are in 305m. 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	0.50 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	LSZH/PE
Outer Jacket Thickness & Ex. Diameter	0.50±0.05 mm, 5.0±0.3 mm
Outer Jacket Colour	Black or Per Requirement
Marking	Per Requirement

# CATEGORY 5E U/UTP 4 PAIR EXTERNAL J/F CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 100 MHz
Impedance	100 Ω ±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/100 m Max
Capacitance Unbalance	3.3 pF/m max.
Velocity of Propagation	69 %
Propagation Delay Skew	25 ns/100 m max.
Dielectric Strength	1 KV/minute
Min. Insulation Resistance	5 GΩ•km
Max. Tensile Strength - Short Term	110 N
Min. Bend Radius	40 mm
Operating Temperature Range	-30°C +60°C

## TRANSMISSION PERFORMANCE

Cat. 5e Un-screened Pair 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
100	19.8	43.3	41.3	25.0	39.0	36.8

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

## ORDERING INFORMATION

Part Number	Description	Standard Length
112-20103104X	Category 5e U/UTP 4 Pair External J/F Cable PE	305 mtr
112-20102104X	Category 5e U/UTP 4 Pair External J/F Cable LSZH	305 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)
112-20103104X	Plywood Reel/Ctn	21.5	22.5	380 x 380 x 260
112-20102104X	Plywood Reel/Ctn	21.7	23.0	380 x 380 x 260