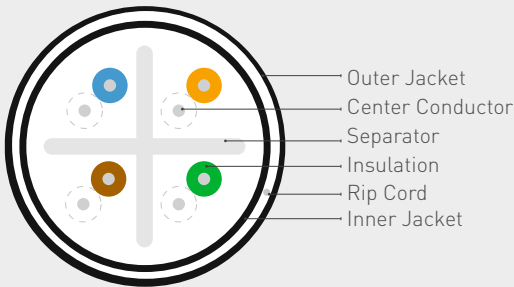
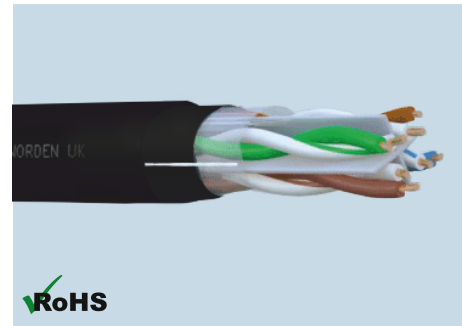


CATEGORY 5E U/UTP DOUBLE JACKET CABLE

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 |
| Rip Cord | Yes |
| 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, 7.3 ± 0.5 mm |
| Outer Jacket Colour | Per Requirement |
| Marking | Per Requirement |



CATEGORY 5E U/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 +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 |
|---------------|---|-----------------|
| 112-21254104X | 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 |

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) |
|---------------|--------------|----------|----------|-----------------|
| 112-21254104X | Plywood Reel | 29.5 | 32.5 | 460 x 460 x 260 |
| 112-21213104X | Plywood Reel | 30.2 | 32.9 | 460 x 460 x 260 |