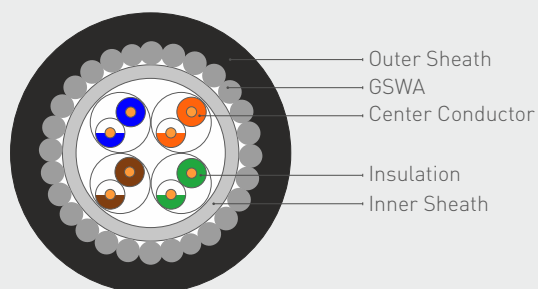
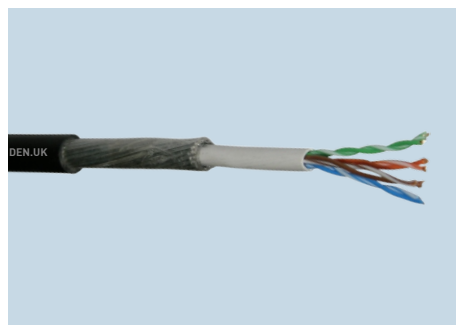


# CATEGORY 5E U/UTP 4 PAIR STEEL WIRE ARMoured EXTERNAL CABLE

Norden Category 5e U/UTP 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 U/UTP cables standard packing are in 305m easy pull out boxes. The main advantage of this cable is that it has Steel Wire Armour (SWA) which makes it suitable for all external applications even in the harshest of environments.

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

## PRODUCT CLASSIFICATION

|                  |                    |
|------------------|--------------------|
| Product Sequence | Premium            |
| Product Type     | Twisted Pair Cable |

## MATERIAL CONSTRUCTION & DESIGN

|                               |                               |
|-------------------------------|-------------------------------|
| Conductor Material            | Bare Copper                   |
| Conductor Size                | 24 AWG                        |
| Conductor Diameter            | 0.50 mm                       |
| Conductor Construction        | Solid                         |
| Insulation Material           | Polyolefin                    |
| Insulation O.D.               | 0.9 mm                        |
| Conductor Unit Identification | Solid/Stripe                  |
| Colour Code                   | Per TIA/EIA 568-B             |
| Total Number of Wires         | 8                             |
| Inner Sheath                  | LSZH                          |
| Inner Sheath Diameter         | 4.75mm                        |
| Armouring                     | GSWA                          |
| Armouring Diameter            | 0.9mm                         |
| Outer Jacket                  | LSZH (Low Smoke Zero Halogen) |
| Outer Jacket Diameter         | 9.0mm                         |
| Outer Jacket Colour           | Per Requirement               |
| Marking                       | Per Requirement               |

# CATEGORY 5E U/UTP 4 PAIR STEEL WIRE ARMOURED EXTERNAL CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

|                                       |                       |
|---------------------------------------|-----------------------|
| DC Conductor Loop Resistance          | 19Ω/100m              |
| Max DC Resistance Unbalanced          | 2%                    |
| Nominal Capacitance                   | 50pF/m                |
| Max Capacitance Unbalance             | 1600 pF/m             |
| Characteristic Impedance (1 – 20MHz)  | 100 ± 12Ω             |
| Characteristic Impedance (20-1000MHz) | 100 ± 15Ω             |
| Nominal Velocity of Propagation       | 66%                   |
| Insulation Resistance (500V)          | 2000MΩ                |
| Installation Temperature Range        | -0 °C to +50 °C       |
| Operating Temperature Range           | -20 °C to +60 °C      |
| Minimum Installation Bend Radius      | 12x diameter (10.8cm) |
| Minimum Installed Bend Radius         | 8x diameter (7.2cm)   |
| Fire Propagation                      | IEC 60332-1           |
| Max Reel Size                         | 1000m                 |
| Approximate Weight                    | 175 kg/km             |

## ORDERING INFORMATION

| Part Number   | Description  | Standard Length |
|---------------|--|-----------------|
| 112-20622104X | Category 5e U/UTP 4 Pair Steel Wire Armoured External Cable LSZH | 305 mtr         |

X: BK(Black), GY(Gray)

## PACKING INFORMATION

| Part Number   | Packing Mode | N.W (kg) | G.W (kg) | Dimension (mm)  |
|---------------|--------------|----------|----------|-----------------|
| 112-20622104X | Pulley Box   | 53       | 58       | 460 x 460 x 260 |