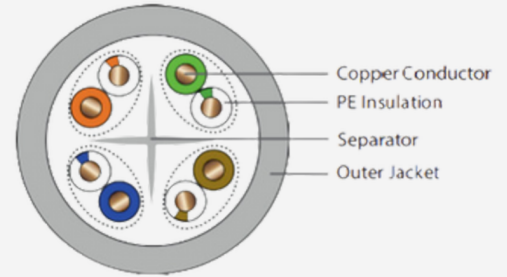


## Data Cable, Cat6, U/UTP, 24AWG, LSZH - FC64UULW



### DESCRIPTION

FABNET Category 6 U/UTP cables are specifically designed to deliver robust standards-based performance ensuring optimum bandwidth for today's high speed network applications. Category 6 cable shall meet ANSI/TIA-568-2. D Category 6 component standard. The conductors shall be 24 AWG construction with Polyethylene insulation. The copper conductors shall be twisted in pairs and covered by LSZH jacket. CAT 6 compliance ensures the cable support. 1000BASE-T Gigabit Ethernet.

### APPLICATIONS

- Supports category 6 (Class E) networks running up to 250MHz applications.
- 10BASE-T, 100BASE-TX Fast Ethernet, 1000BASE-T (IEEE802.3)
- Horizontal and backbone in structured cabling installation

### SPECIFICATIONS & FEATURES

- The cable shall meet ANSI/TIA-568-D.2 Cat 6 and ISO/IEC 11801-2ND EDITION Class E performance requires.
- Outer Jacket: LSZH
- 24AWG premium grade copper conductor
- U/UTP cable structure with cross separator inside for better cable performance

### MECHANICAL & PHYSICAL PROPERTIES

<b>Basic Conductor</b>	Solid Bare Copper	<b>Category</b>	CAT 6 U/UTP
<b>Conductor Size</b>	24 AWG	<b>Pulling Force</b>	50 N
<b>Insulation</b>	Polyolefin	<b>Short Term Bend Radius</b>	4xOD mm
<b>Number of Insulated Conductors</b>	8, twisted in 4 pairs	<b>Long Term Bend Radius</b>	8xOD mm
<b>Color Code of Pairs</b>	Blue x White/Blue, Orange x White/Orange, Green x White/Green, Brown x White/Brown	<b>Operating Temperature</b>	-40 to +70C
<b>Outer Jacket</b>	LSZH	<b>Installation Temperature</b>	-10 to +50C
<b>Jacket Color</b>	White. Other colors available upon request	<b>Storage Temperature</b>	-40 to +70C

## ELECTRICAL SPECIFICATIONS

<b>Characteristic Impedance</b>	100±6 Ohm @ 1-250 MHz
<b>DC Resistance</b>	93 Ohm/Km max
<b>Resistance unbalance</b>	2% max
<b>Capacitance</b>	56 pF/m nom. @ 1 KHz
<b>Cap. Unbalance (wire to ground)</b>	1600 pF/Km max. @ 1 KHz
<b>Voltage rating</b>	72 Vdc max.
<b>Dielectric strength</b>	1.7 KV A.C/2 Seconds
<b>Velocity of Propagation (NVP)</b>	67-69%
<b>Propagation delay</b>	534 + 36/f½ nS/100m max @ 1-250 MHz
<b>Propagation Delay Skew</b>	45 nS/100m max @ 1-250 MHz
<b>Insulation Resistance</b>	5000 MegaOhm·Km min. @ 500 Vdc
<b>Coupling attenuation</b>	40 dB min @ 30-100 MHz 40-20Log(f/100) @100-250 MHz

## PACKING DETAILS

Length (Mtr)	Approx. OD(mm)	Packaging Type
305	5.9±0.3	BOX
500	5.9±0.3	REEL

## ORDERING INFORMATION

FC64UULW-AT	Data Cable, Cat6, U/UTP, 24AWG, LSZH, White, 305 Mtr
FC64UULW-AF	Data Cable, Cat6, U/UTP, 24AWG, LSZH, White, 500 Mtr

\*Jacket Colour Variants (W-White, B-Blue, G-Gray, C-Customized)