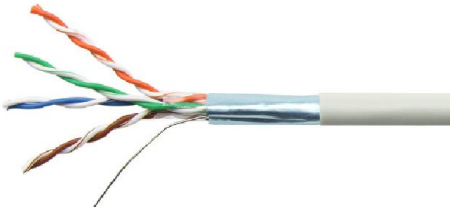


Copper Structured Cabling and Accessories

Category 5E F/UTP 4 Pair Cable

Category 5e F/UTP cables exceed Category 5e/Class D specification. It is tested to 100MHz frequency range and designed to support Gigabit 1000Base-T applications to full 100m. Category 5e F/UTP cables are UL listed CM, CMX, CMR & CMP and standard packing will be 305m easy pull out boxes.



Data integrity is one of the most essential network requirements for many corporations, especially those located in environments that are prone to noise and electromagnetic interference such as industrial facilities and airports, as well as those running critical systems such as military installations and hospitals. F/UTP (Twisted Pair – overall Foil shield) cabling systems are installed for improved Alien Cross talk performance.



Complied with or exceeds Standard

- ISO/IEC-11801, 2nd Edition Class D(Category 5E)
- IEC 61156-7:2003
- IEEE 802.af, IEEE 802.3at for PoE applications
- IEC 61156-5:2002 Category 5e
- ANSI/TIA-568-C.2:2009 Category 5e
- LSZH: IEC 60332-1, IEC 60754, IEC 61034

Features & Benefits:

- UL certified
- For broadband and fast ether net applications
- Twisted pairs are brightly colored and distinguished at a glance
- Ultra smooth jacket easy to pull in tight spaces
- All cables meet or exceed the requirement proposed by TIA /EIA 568 B .2 ,ISO/IEC 11801 Category 5e
- Striped cross frameworks to match corresponding pairs
- 4 twisted-pair cable
- 24AWG insulated copper conducts with PVC jacket

MATERIAL CONSTRUCTION & DESIGN:

Conductor Material:	Bare copper
Conductor Size:	24 AWG
Conductor Diameter:	0.512 mm(D) norm.
Conductor Construction:	Solid
Insulation Material:	High Density PE
Insulation Diameter:	1.43 mm nom.
Conductor Unit Identification:	Solid/Stripe
Color Code:	Per TIA/EIA 568-B

Total Number of Wires:	8
Rip Cord:	optional
Screening Material:	Aluminium foil
Screening Design:	100% Coverage
Conductor Unit Lay-Up:	Pairs
Drain-Wire Material:	Tinned Copper, 0.10mm
Drain-Wire Construction:	Solid
Outer Jacket:	LSZH or PVC
Outer Jacket Thickness	6.2 mm
Outer Jacket Color:	Per Requirement (The default is grey)
Marking:	Per Requirement

ELECTRICAL, MECHANICAL & TRANSMISSION CHARACTERISTICS

Frequency Range:	1 - 100 MHz
Impedance:	10 Ω +/- 15
Coupling Attenuation:	40 dB min @ 30-100 MHz
Max. DC Resistance :	94 Ω/km@20°C
Max. Resistance Unbalance:	5 %
Capacitance:	5.6nF/100m max.
Capacitance Unbalance:	3.3 pF/m max.
Velocity of Propagation:	69%
Propagation Delay Skew:	25ns/10m max.
Dielectric Strength:	1KV/minute
Min. Insulation Resistance :	5 GΩ•km
Max. Tensile Strength - Short Term:	110 N
Min. Bend Radius:	50mm
Max. Operating Temperature:	+70 °C
Min. Operating Temperature:	-20 °C

ELECTRICAL PERFORMANCE CHARACTERISTICS

Cat. 5e screened Pair Horizontal Cables*						
Frequency (MHz)	Attenuation (dB/100m@20°C)	NEXT (dB)	PS NEXT (dB)	Return Loss (dB)	ELFEXT (dB)	PSELFEXT (dB)
1.0	2.0	71.3	70.3	23.0	77.8	72.8
4.0	3.9	62.3	63.0	28.0	65.8	60.8
10.0	6.2	56.3	55.9	28.0	57.8	52.8
16.0	7.9	53.2	52.0	28.0	53.7	48.7
20.0	8.8	51.8	50.2	28.0	51.8	46.8
31.25	11.1	48.9	46.2	26.0	47.9	42.9
62.5	16.0	44.4	39.4	26.0	41.9	36.9
100.0	20.7	41.3	34.2	26.0	37.8	32.8

*Supplied cables meet minimum Cat. 5e transmission requirements of IEC 61156-5 Ed. 2 and ANSI/EIA/TIA 568-B.2

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	LENGTH
C5e3-X	Category 5e F/UTP 4 Pair cable PVC	305 m
C5e4-X	Category 5e F/UTP 4 Pair cable LSZH	305 m

X: BK(Black), BL(Blue), GN(Green), GY(Gray), RD(Red), WH(White), YL(Yellow)

PACKING INFORMATION

Cable Length(Metre)	Packing Mode	N.W(kg)	G.W(kg)	Dimension(cm)
305	Pulley Box	11.2	11.8	38.0 x 38.0 x 21.0
1000	Ply Reel	36.5	42.5	47.0 x 47.0 x 32.0