

Category 6 SF-UTP Cable - FRPVC



High Speed Gigabit Ethernet UTP 250 MHz Class E / Category 6 Cable Consists of HDPE Insulated 8 x 23AWG Solid Bare Electrolytic Grade Copper Conductors Twisted as 4 Pairs, Al-Mylar Tape with Drain Wire, overall Aluminum braiding and FRPVC Outer Jacket. This Cable is Suitable for Gigabit Ethernet (1000Base-T) applications for High-Speed Data, Voice & Video Signals over LANs, Server Farms and Other Bandwidth Sensitive Indoor Applications.

Features

- Complies to ANSI-TIA 568.2-D for Category 6 & ISO/IEC 11801 for Class E
- Fire Rating as per IEC 60332-1
- Cable Characterized up to 250 MHz
- Shielded with Al-Mylar Tape with Drain Wire
- Overall, Alloy Braiding
- Maximum throughput, reliability and performance
- 4 Pair Separator Design
- Covered under 3C3[®] Performance Warranty

Mechanical Specifications

Conductor AWG : 23

Conductor Material : Solid bare Copper

Conductor Count : 8

Insulation Material : Polyethylene

No. of pair : 4

Color Code

Pair #1 : Blue, White and Blue
Pair #2 : Orange, White and Orange
Pair #3 : Green, White and Green
Pair #4 : Brown, White and Brown
Shielding #1 : Al-Mylar Tape with Drain Wire

Shielding #2 : Alloy Braiding

Outer Sheath : FRPVC
Outer Sheath Color : Grey
Outer Sheath Thickness : 0.6mm
Overall cable diameter : 7.20mm
Cross filler : HDPE
Nominal Weight : 19.0Kg

Page 1 of 2

Kindly note that any specifications including design, measurements, size, dimension, weight and material specifications mentioned across any technical or commercial document are change by 3C3 India Pvt. Ltd., without any notice.

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Electrical Specifications

Characteristic Impedance : $100\Omega\pm15\%$ Conductor Resistance (DC) : $\leq 9.38\Omega/100m$

Resistance Unbalance : 5% max
Mutual Capacitance : <5.6nF
Capacitance Unbalance : 330pF
Delay Skew : <45ns
NVP : 69%

Bending radius : 4X cable diameter

Pulling force : 11.5kg Maximum propagation delay : 490ns

@250MHz

Frequency	Max. IL (dB)	Min. NEXT (dB)	Min PSNEXT (dB)	Min ACRF (dB)	Min PSACRF (dB)	Min RL (dB)
250MHz	<32.8	>38.3	>36.3	>19.8	>16.8	>17.3

Environmental Specifications

Installation Temperature : $0^{\circ}\text{C to }60^{\circ}\text{C}$ Storage Temperature : $-20^{\circ}\text{C to }+75^{\circ}\text{C}$ Operating Temperature : $-20^{\circ}\text{C to }+60^{\circ}\text{C}$

Flame Properties

Flammability Test : IEC 60332-1 Acid Gas Emission Test : IEC 60754-1 Smoke Density Test : ASTM 2843

Standard Compliance/Certifications

RoHS Certified

Ordering Information

Product Code Description

High Speed Gigabit Ethernet SF-UTP 250 MHz Class E FRPVC

Cable, C6

Page 2 of 2

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