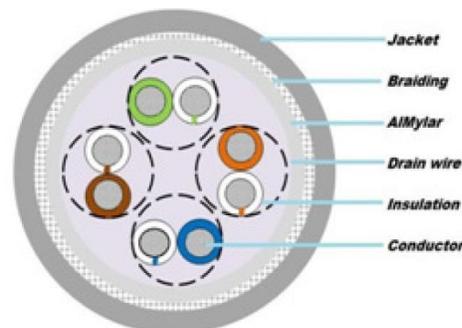


FibRSol-CAT5e SFTP Data Cable

Item: 4 Pair CAT5e SFTP

Highlights:

- ✓ 4 Pair
- ✓ SFTP
- ✓ 1000BASE-T
- ✓ Max.328+ ft



Product Overview:

FibRSol Cat 5e SFTP cable is an enhanced version of Cat 5 that adds specifications for far end crosstalk. It was formally defined in 2001 in the TIA/EIA-568-B standard, which no longer recognizes the original Cat5 specification.

Although 1000BASE-T was designed for use with Cat5 cable, the tighter specifications associated with Cat 5e SFTP cable and connectors make it an excellent choice for use with 1000BASE-T. Despite the sticter performance specifications, Cat 5e SFTP cable does not enable longer cable distances for Ethernet networks: cables are still limited to a maximum of 328+ ft (100+ m) in length (normal practice is to limit fixed ("horizontal") cables to 90 m to allow for up to 5 m of patch cable at each end.) Cat 5e SFTP cable performance characteristics and test methods are defined in TIA/EIA-568-B.2-2001.

Features:

10 Base T	IEEE802.3
100 Base T	IEEE802.3u
1000 Base T	IEEE802.3ab
1000 Base -BX10	IEEE802.3ah

Meets IEEE802.3af and 802.3at PoE
Applications supported include ANSI X3T9.5 100 Mbps TP-PMD standard under development, 100 Mbps TPDDI or CDDI (FDDI on UTP), As well as 16 Mbps Token Ring, and other high-speed LAN applications

Flame Rating:

- PVC - CM Flame Retardant
- Good RF/EMI interface attenuation to enable installation to High electrical noise locations specified and tested up-to 350 Mhz.
- Complaint to EIA/TIA 568-C and IEC/ISO 11801

Color Code:

Pair	Specifications
1	Blue – White Blue
2	Orange – White Orange
3	Green – White Green
4	Brown – White Brown

Specifications:

Characteristic	Specifications
Maximum tensile load	120N Installation
Minimum bend radius	7 x cable diameter
Temperature	-20 to + 75°C (Installation) -20 to + 60°C (Installation)

Outer Jacket Color: Grey, Blue, Black or As Per Costumer Specific Color

Cable Construction for Outdoor/Indoor:

Characteristic	Specifications
Conductor	Solid Bare Electrolytic Grade Copper
Nominal Conductor Diameter	24 AWG 0.50 ± 0.015 mm
Insulation	Polyethylene (HDPE) or As per customer requirement
Pairing	Twisted into two core
No. of Pair	4 Pair Twisted together
Shield	Al-Myler
Shield coverage	100%
Shield Overlap	25%
Drain Wire	ATC (or As per customer requirement)
Braiding	Alloy (or As per customer specification)
Plyester Tape	Yes (or As per customer specification)
Outer Sheath (As per Customer Required)	PVC Sheath (or As per customer specification)
Color of Sheath (As per Customer Required)	L-Grey, Black
UV Protection	Yes
Approximate OD	6.50 ± 0.30 mm

Transmission Characteristics – 100M (High Frequency Electrical Parameters)

FREQ	INS LOSS	NEXT Pair to	NEXT	ACRF	ACRF	Return Loss
		Pair	Power sum		Power sum	
(MHz)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)
	max	min	min	min	min	min
1	2.2	60	57	57.4	54.4	17
4	4.5	53.5	50.5	45.4	42.4	17
8	6.3	48.6	45.6	39.3	36.3	17
10	7.1	47	44	37.4	34.4	17
16	9.1	43.6	40.6	33.3	30.3	17
20	10.2	42	39	31.4	28.4	17
25	11.4	40.3	37.3	29.4	26.4	17
31.25	12.9	38.7	35.7	27.5	24.5	15.1
62.5	18.6	33.6	30.6	21.5	18.5	12.1
100	24	30.1	27.1	17.4	14.4	10

Transmission Characteristics – 100M (Low Frequency Electrical Parameters)

Characteristic	Specifications
Conductor Resistance (DC)	105 Ω /1000 MTR@20 Degree C. Max
Resistance Unbalance	5% Max.
Insulation Resistance	5000 M Ω . Km (@20 Degree C.) Min.
Mutual Capacitance	5.6 nF/100 mtrs. Max.
Capacitance Unbalance Pair/Ground	330PF/100 mtrs. Max.
Normal Velocity of Propagation	0.69
Impedance	100 \pm 15% Ω
Worst Case Cable skew	45ns/100m
Generally confirming to	EIA/TIA 568-C and IEC/ISO 11801