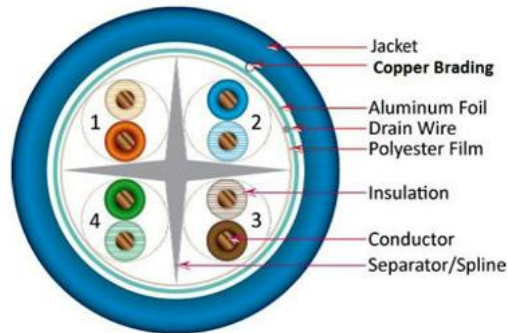


CAT6e-SFTP-305mtrs Copper Cable

NN-CAT6e-SFTP



Overview:

The NETROs Cat6e SFTP cable offers superior Electrical performance meeting 1000 Base-T requirement for applications such as Data Centres, Server Farms and other bandwidth intensive application. NETRO shielded cables can be used for wide range of industrial environments/application that requires no signal drops or interference. Customers can choose between Alloy braiding and copper braiding.

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

Features And Benefits:

- Exceed ISO/IEC 11801, IEC 61156-5, ANSI/TIA/EIA-568-C.2 Class D Standards backward compatible to CAT5e applications
- Can be used for outdoor application
- 4 pair separator design
- 23 AWG cable
- Dual shielding of foil and overall braid

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	8 x cable diameter
Temperature	-20 to + 75°C (Installation) -20 to + 60°C (Installation)

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

Cable Construction for Outdoor/Indoor:

Characteristic	Specifications
Conductor	Solid Bare Electrolytic Grade Copper
Nominal Conductor Diameter	23 AWG 0.555 ± 0.015 mm
Insulation	Polyethylene (HDPE)
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	7.00 ± 0.30 mm

Transmission Characteristics – 100M (High Frequency Electrical Parameters)

FREQ	INS LOSS	NEXT Pair to	NEXT	ACRF	ACRF	Return Loss
(MHz)	(dB/100m)	Pair	Power sum		Power sum	
	max	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)
		min	min	min	min	min
1	2.1	65.0	62.0	63.3	60.3	19.0
4	4.0	63.0	60.5	51.2	48.2	19.0
8	5.7	58.2	55.6	45.2	42.2	19.0
10	6.3	56.6	54.0	43.3	40.3	19.0
16	8.0	53.2	50.6	39.2	36.2	18.0
20	9.0	51.6	49.0	37.2	34.2	17.0
25	10.1	50.0	47.3	35.3	32.3	17.0
31.25	11.4	48.4	45.7	33.3	30.0	16.5
62.5	16.5	43.4	40.6	27.2	24.3	12.0
100	21.3	39.9	37.1	17.2	20.0	9.0

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