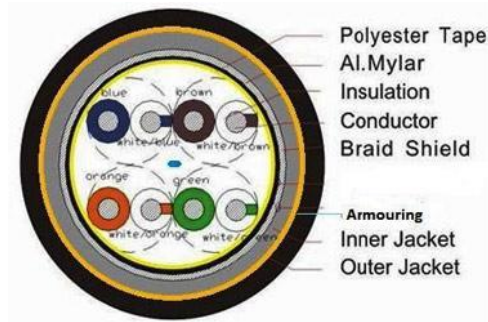


CAT5e-SFTP-305mtrs Copper Cable

NN-CAT5e-SFTP



Overview:

The NETROs Cat5e SFTP Armoured cable offers superior protection against physical damage with Armouring and Electrical performance by blocking EMI interference through a Braid and Mylar tape construction meeting 1000 Base-T requirement for any applications that requires outdoor installation of the cable between buildings or any open area in a campus of building exposed to harsh environment.

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
- Excellent Margin with suppression of Cross Talk (NEXT)
- 24AWG cable
- Optionally Available in PE Jacket

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 Customer 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
(MHz)	(dB/100m)	Pair	Power sum		Power sum	
	(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