

Category 5e Cabling System



Key Features

- High performance Category 5e cable to transmit full broadband and baseband video signals
- Compliance with TIA-568.2-D and IEEE802.3 1000Base-T
- Meets ISO/IEC 11801 and TIA-568.2-D to support maximum 100Mbit/s or 1Gbit/s transmission and a bandwidth up to 100MHz
- Optimized solution for IBS buildings with a whole range of components including shielded/unshielded construction.

Guaranteed Channel Performances

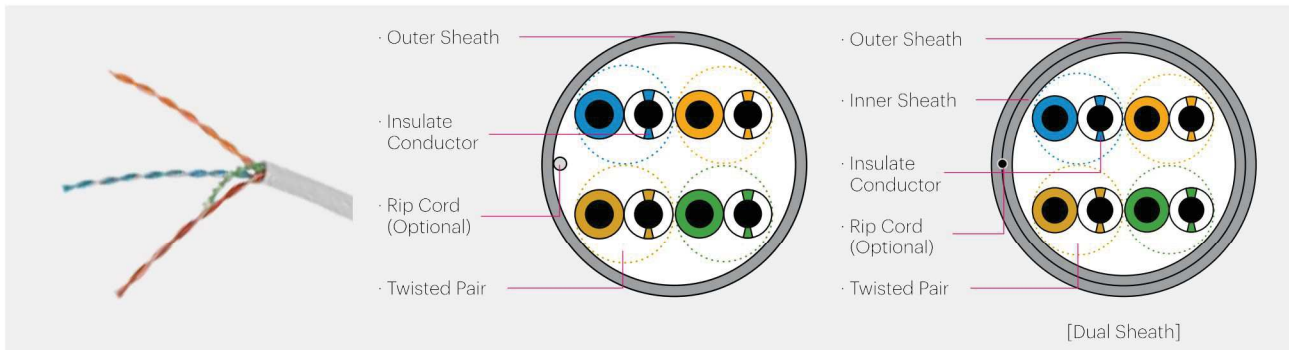
Frequency (MHz)	Attenuation (dB / 100m)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB / 100m)	PSELFEXT (dB / 100m)	Return Loss (dB)
1.00	2.2	60.0	57.0	57.4	54.4	17.0
4.00	4.5	53.5	50.5	45.4	42.4	17.0
8.00	6.3	48.6	45.6	39.3	36.3	17.0
10.00	7.1	47.0	44.0	37.4	34.4	17.0
16.00	9.1	43.6	40.6	33.3	30.3	17.0
20.00	10.2	42.0	39.0	31.4	28.4	17.0
25.00	11.4	40.3	37.3	29.4	26.4	16.0
31.25	12.9	38.7	35.7	27.5	24.5	15.1
62.50	18.6	33.6	30.6	21.5	18.5	12.1
100.00	24.0	30.1	27.1	17.4	14.4	10.0

* The figures larger than 67dB for PSANEXT and PSAELFEXT are information only.

Typical Channel Performance

Attenuation (dB / 100m)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB / 100m)	PSELFEXT (dB / 100m)	Return Loss (dB)
-10%	+6	+6	+8	+8	+4

Category 5e U/UTP Cable



Descriptions

- 4 pair twisted cable
- Cable diameter : 0.193inch (4.9 mm)
- ETL Verified & UL Listed
- Supports Fast Ethernet/Gigabit Ethernet, up to 155 Mb/s
- Approved design for global commercial network installation
- Optimized solution for sustainable network infrastructure
- Electrical performances to TIA-568.2-D
- RoHS compliant
- Applicable for LS 25-Year Extended Product Warranty
- Meets the requirements of CPR Dca grade (PVC jacket)

Applications

- Horizontal Distribution & Backbone Cabling
- 4/16 Mbps Token Ring (IEEE 802.5)
- 10/100/1000 BASE-T (IEEE 802.3)
- 155 Mbps ATM
- 100Mbps TP-PMD
- ISDN, ADSL
- PoE & PoE+ (IEEE 802.3af Type 1(15.4W), IEEE 802.3at Type 2(30W))

Technical Details

Item	Unit	Non-Plenum	Plenum
Conductor DC Resistance	Ohms/100 m	Max. 9.38	Max. 9.38
Resistance Unbalance	%	5	5
Mutual Capacitance	nF/100 m	5.6	5.6
Capacitance Unbalance	pF/100 m	330	330
Characteristic Impedance	Ohms	100 ± 15%	100 ± 15%
Propagation Delay	ns/100 m	538 @ 100MHz	538 @ 100MHz
Delay Skew	ns	45	45
Nominal Velocity of Propagation	%	67	68
Operating Temperature	°C / °F	-20 ~ 60 / -4 ~ 140	-20 ~ 60 / -4 ~ 140
Storage Temperature	°C / °F	-20 ~ 80 / -4 ~ 176	-20 ~ 80 / -4 ~ 176
Bending Radius	-	4 x Cable Diameter	4 x Cable Diameter
Packaging Type	1000ft (305m)	Reelex / RIB	Reelex / RIB
Packaging Weight	lb/kft (kg/km)	17 (25)	20 (30)
Conductor Diameter / Material	-	24 AWG, Solid Copper	24 AWG, Solid Copper
Insulation Diameter / Material	inch (mm)	0.035(0.90) Ø, HDPE	0.034(0.86) Ø, FEP
Outer Diameter / Material	inch (mm)	0.193(4.9) Ø, PVC or LSZH (Low Smoke Zero Halogen)	0.185(4.7) Ø, LS-PVC(Plenum)
Safety Standard, Performance Standard		UL444 / CMX-UL1581, IEC 332-1 / CM-UL1685, IEC 332-3 / CMR-UL1666 / CMP-NFPA262 / LSZH-IEC 60754, IEC 61034	
Approvals Performance		TIA-568.2-D, ISO/IEC 11801 "Performance specifications for 4Pairs 100 ohm Category 5E / Class D Cabling"	