Category 5 Multipair Cables

□ Applications:

10Base-T, 100Base-T4, 100Base-TX, 100Base-VG-ANYLAN, 155Mbps ATM, 622Mbps ATM

□ Standards:

ISO/IEC 11801, ANSI/TIA/EIA-568-B

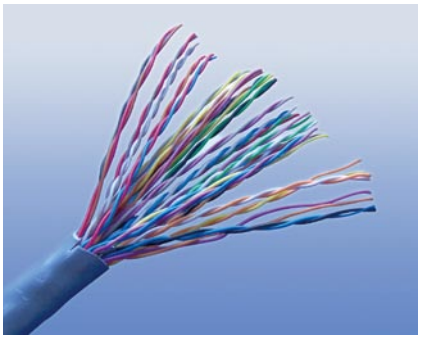
□ Product Construction Matrix:

		U/UTP	F/UTP	SF/UTP
Conductor	Material	Solid Plain Copper	Solid Plain Copper	Solid Plain Copper
	Stranding(No./mm)	1/0.5	1/0.5	1/0.5
	Gauge	24AWG	24AWG	24AWG
Insulation	Material	PE	PE	PE
	Diameter	0.86 mm	0.86 mm	0.86 mm
Screen	Material	Nil	Overall Aluminum Tape Screen	Overall Aluminum Tape Screen & Copper Wire Braid
Drain Wire	Material	Nil	1/0.5 mm	1/0.5 mm
Assembly	No of Pairs	25/50/100	25/50/100	25/50/100
Jacket	Material	PE/PVC/LSF/LSZH	PE/PVC/LSF/LSZH	PE/PVC/LSF/LSZH

Remark: PE-Polyethylene; PVC-Polyvinyl Chloride; LSF-Low Smoke & Fume; LSZH-Low Smoke Zero Halogen; LSFROH-Low Smoke Flame Retardant Zero Halogen (to IEC60332-3C); PVC can be classified as CMX, CM, CMR and CMP

□Working Frequency:

1-100MHz



□ Product Certification:

E222756 (UL)

□Technical Parameters:

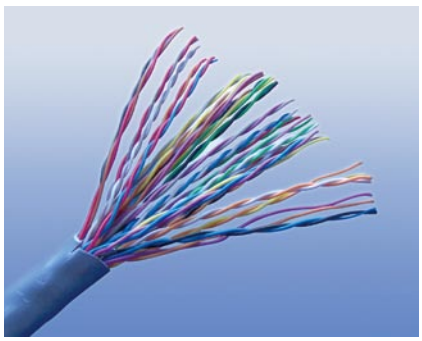
☆ Characteristic Impedance: 100±15Ω
☆ Nominal Velocity of Propagation(NVP): 69%
☆ Maximum DC Resistance: 9.38Ω/100m
☆ Maximum Mutual Capacitance: 5.6 nF/100m
☆ Maximum Capacitance Unbalance: 330 pF/100m
☆ Maximum Resistance Unbalance: 5%
☆ Maximum Propagation Delay Skew: 30 ns/100m
☆ Maximum Propagation Delay: 536 ns/100m@100 MHz
☆ Minimum Bending radius: 10 x Overall Diameter
☆ Voltage Rating: 60V rms
☆ Maximum Pulling load: 80N
☆ Working Temperature: -20 ℃ ~ +60℃
☆ Storage Temperature: -5℃ ~ + 50℃
☆ Flame Retardancy: UL 1581 (CM Jacket); UL 1666 (CMR Jacket); UL 910 (CMP Jacket); IEC 60332-1 (FRPVC & LSZH Jacket); IEC 60332-1 & IEC 60332-3C (LSFROH Jacket)

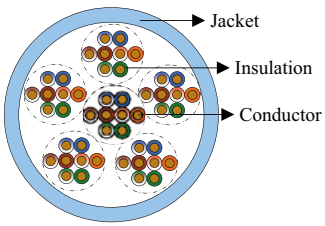
□Product Highlights:

☆ Provide excellent bandwidth beyond 100 MHz.
☆ Designed for use in data and voice backbone application.
☆ Meet the strict flame retardancy and environmental requirements in Europe and US.
☆ Easily identifiable color code for ease of installation.

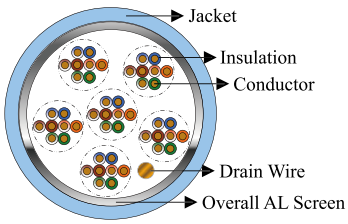
□ Transmission Properties:

FREQ (MHz)	NEXT(dB/100m) Minimum Value/Typical Value/Standard Value	IL (dB/100m)	SRL (dB/100m) Minimum Value/Typical Value/Standard Value
1	64.0/71.0/62.0	2.0	24.5/26.0/23.0
4	55.0/62.0/53.0	4.0	24.5/26.0/23.0
8	49.5/57.0/48.0	5.7	24.5/26.0/23.0
10	49.0/56.0/47.0	6.4	24.5/26.0/23.0
16	44.9/52.0/44.0	8.2	24.5/26.0/23.0
20	42.5/48.0/42.0	9.2	24.5/26.0/23.0
25	42.0/48.0/41.0	10.3	24.5/26.0/23.0
31.25	40.6/48.0/39.0	11.6	22.5/24.0/21.0
62.5	36.1/43.0/35.0	16.9	19.5/22.0/18.0
100	34.0/40.0/32.0	21.8	17.5/20.0/16.0

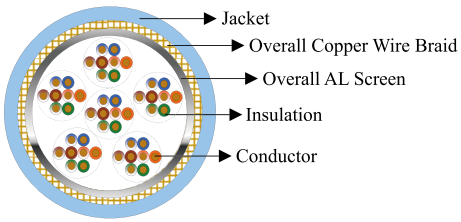




Cat5 U/UTP



Cat5 F/UTP



Cat5 SF/UTP