

Category 6 UTP Solid CMR Bulk Cables

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Category 6 cabling solution supports the operation of 1000 BASE-TX over 100 meters and are qualified for frequency up to 500 MHz.

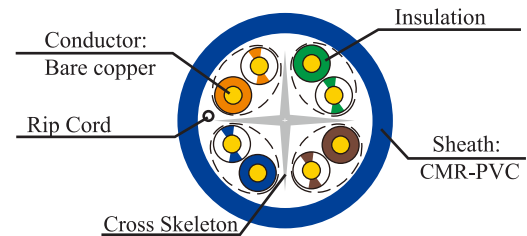
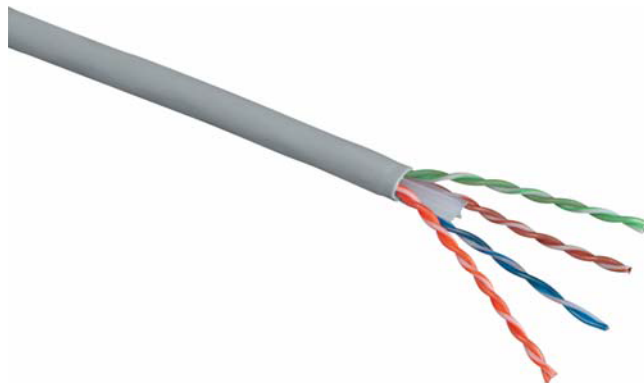
It provides bandwidth required for multi-media, broadband video, analog video and other future applications.

Standard Compliances

- TIA/EIA 568-C.2, UL 444, and ISO/IEC 11801
- ROHS Compliant
- ATM 155 Mbps
- Ethernet 10BASE-T, 100BASE-TX, 100BASE-VG, 100BASE-T4,
- 1000 Mbps 1000BASE-T Gigabit Ethernet™ (IEEE 802.3)

Application

- 1000BASE-TX Gigabit Ethernet
- 100BASE-T (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12)
- Voice, T1, ISDN, 10BASE(IEEE802.3)
- 155/622 Mbps ATM, 500 MHz Broadband Video



BC2101000X

Cat.6 UTP 23AWG Solid CMR Bulk Cable, 1000ft

- | | |
|---------------|--------------|
| X=1(Black): ● | 6(Red): ● |
| 2(Blue): ● | 7(Purple): ● |
| 3(Green): ● | 8(White): ○ |
| 4(Gray): ● | 9(Yellow): ● |
| 5(Orange): ● | 0(Ivory): ○ |

Electrical Performance

Freq (MHz)	Attenuation (dB/100m)	Return Loss (dB)	NEXT (dB)	PS-NEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	DELAY (ns/100m)	ACR (dB)
	Max.	Min.	Min.	Min.	Min.	Min.	Max.	
1	2.03	20.00	74.30	72.30	67.80	64.80	570.00	72.70
4	3.87	23.01	65.27	63.27	55.76	52.76	552.00	61.40
10	5.95	25.00	59.30	57.30	47.80	44.80	545.38	53.35
16	7.55	25.00	56.24	54.24	43.72	40.72	543.00	48.69
20	8.47	25.00	54.78	52.78	41.78	38.78	542.05	46.31
25	9.51	24.32	53.33	51.33	39.84	36.84	541.20	43.82
31.25	10.67	23.64	51.88	49.88	37.90	34.90	540.44	41.21
62.5	15.38	21.54	47.36	45.36	31.88	28.88	538.55	31.98
100	19.80	20.11	44.30	51.30	27.80	24.80	537.60	24.50
200	28.98	18.00	39.78	37.78	21.78	18.78	536.55	10.80
250	32.85	17.32	38.33	36.33	19.84	16.84	536.28	5.48
300	36.41	16.80	37.10	35.10	18.45	15.45	536.10	-
500	45.30	15.20	33.80	31.80	13.80	10.80	535.60	-

Cat.6 UTP 23AWG Solid CMR Bulk Cable, 1000ft

Marking: CAT.6 UTP INSTALLATION ETL VERIFIED TO ANSI/TIA-568-C.2 ▲▲▲▲▲▲▲▲▲▲ 23AWGX4P CMR (UL) c(UL) E339722

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Content of the Data Sheet

Sheath Printing	CAT.6 UTP INSTALLATION CABLE TESTED TO 550MHz ETL VERIFIED TO ANSI/TIA-568-C.2▲E339722-X 23AWGX4P 75C CMR(UL) C(UL)▲RoHS XXXX						
Category	U/UTP CAT6-4P-CMR						
Test Standard	ISO/IEC11801、TIA-568-C.2						
Conductor	Material	SOLID-Bare Copper					
	Nom.O.D.(mm)	0.550	up	+0.005	down	-0.005	
Insulation	Material	HDPE					
	Diameter	0.98±0.03mm					
Sheath	Thickness	0.45±0.05mm					
	External O.D.	6.0±0.4 mm					
	Surface	Clean,Frap,Satiation					
	Material	FRPVC					
	Color	According to the requires					
Surface Printing	Letter height	3.0±0.3mm					
	Color	Black					
	Print error & Space	≤±0.5%, 1m					
Core Color	1 White- Blue /Blue	2 White-Orange /Orange					
	3 White-Green /Green	4 White- Brown /Brown					
Packing	Easy Pull Box						
Carton dimension	According to the requires						
Packing length	305±1.5m						
Rip-cord	Yes	Drain wire	No				
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥13.5				
		Elongation(%)	≥150				
	Aging Period (°C×hrs)	100°C×24h×7d					
	After Aging	Tensile Strength(Mpa)	≥12.5				
	Elongation(%)	≥125					
	Cold bend(-20±2°C×4h) 8×Cable O.D.No visible cracks						
Electrical Characteristics (20°C)	1.0-250.0MHz	Impedance(Ω)	100±15				
	250-550 MHz	Impedance(Ω)	reference values				
	1.0-550.0MHz	Delay Shew (ns/100m)	≤45				
		DC Resistance (Ω/100m) max	9.38				
	DC Conductor Resistance Unbalance (%)max	5.0					

Technical Performance :							
Fre. MHz	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.0	2.03	74.3	570.00	72.3	68.0	65.0
4	23.0	3.78	65.3	552.00	63.3	56.0	53.0
8	24.5	5.32	60.8	546.73	58.7	49.9	46.9
10	25.0	5.95	59.3	545.38	57.3	48.0	45.0
16	25.0	7.55	56.2	543.00	54.2	43.9	40.9
20	25.0	8.47	54.8	542.05	52.8	42.0	39.0
25	24.3	9.51	53.3	541.20	51.3	40.0	37.0
31.25	23.6	10.67	52.0	540.44	49.9	38.1	35.1
62.5	21.5	15.38	47.4	538.55	45.4	32.1	29.1
100	20.1	19.80	44.3	537.60	42.3	28.0	25.0
200	18.0	28.98	39.8	536.50	37.8	22.0	19.0
250	17.3	32.85	38.3	536.10	36.3	20.0	17.0
*350	16.3	39.79	36.1	535.90	34.1	16.9	13.9
*550	14.9	51.76	33.2	535.50	31.2	13.0	10.0

Note: Remarks: * are the reference values