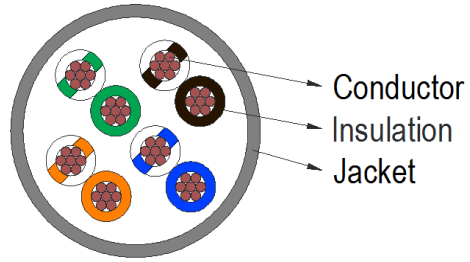
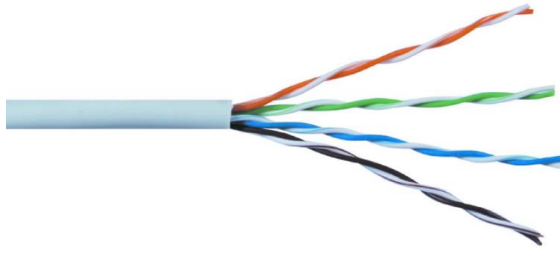


Technical Data Sheet

Cat. 6 U/UTP 4 Pairs 28AWG Unscreened Patch Cable



High Frequency Performance	Category		Category 6, CLASS E			
LSOH Standards	IEC60754-2, IEC61034-1, IEC61034-2					
Environmental Compliance	RoHS					
Marking on Sheath	CM	ELITE 1000X CAT6 28AWG STRANDED CABLE CM Rated 75°C UTP 4PR XXXXFT				
	Customization Available					
Example	Cable Sheath Type		Cable Sheath Color		Packaging	
	A B S B M		02017035		04	
Part Number	Cable Sheath Type	Part Number	Color-RAL	Part Number	Length,Packaging	Part Number
	CM	A B A B M	Black-RAL9011	01019011	100M,PE Roll	01
			Grey-RAL7035	02017035	1000FT,PE Roll	04
			Red-RAL3031	03013031	1000FT,Neutral Easy Box	14
			White-RAL9010	05019010	500M,Wooden Reel	33

Technical Data Sheet

Cat. 6 U/UTP 4 Pairs 28AWG Unscreened Patch Cable

Conductor	Material	Bare Copper	
	Structure	28AWG, 7 x 0.127mm	
Insulation	Material	HDPE	
	Structure	0.63mm	
Foil Screen	Material	N/A	
	Thickness	N/A	
Braid	Material	N/A	
	Structure	N/A	
Rip cord	N/A		
Drain Wire	Material	N/A	
	Structure	N/A	
Sheath	Material	PVC or LSOH	
	Thickness	0.51mm	
	OD	3.6 ± 0.2mm	
Bending Radius (without load)	Min. 8 x Cable Diameter		
Temperature Range	Installation Temperature	0 to 50°C	
	Storage Temperature	-20 to 70°C (Under static conditions)	
	Operation Temperature	-20 to 60°C (Under static conditions)	
Conductor Resistance @20°C	Max. 20 Ohms/100m	Resistance Unbalance @20°C	Within a pair: 5% Max.
Dielectric Strength	1kV DC or 0.7kV AC for 60secs		Between pairs: 3% Max.
Mutual Capacitance	5.1nF/100m @1kHz	Max. Capacitance Unbalance (Pair to Ground @20°C)	330 pF/km @1kHz
Transfer Impedance (Max.)	N/A		
Mean Characteristic Impedance	100 Ohms ± 5 Ohms @100MHz	Nominal Velocity Propagation	71%
Max. Delay Skew @20°C	45 nsec/100m @ 100MHz		

Transmission Characteristics

FREQ MHz	RL (min. dB at 20°C)	NEXT (min. dB)	PS-NEXT (min. dB)	Prop. Delay (max. ns)
1	20.0	74.3	72.3	570
4	23.0	65.3	63.3	552
8	24.5	60.8	58.8	549
10	25.0	59.3	57.3	545
16	25.0	56.2	54.2	543
20	25.0	54.8	52.8	542
25	24.2	53.3	51.3	541
31.25	23.3	51.9	49.9	540
62.5	20.7	47.4	45.4	539
100	19.0	44.3	42.3	538
200	16.4	39.8	37.8	537
250	15.6	38.3	36.3	536

(1) All performance based on 50 meters at 20°C. (2) The asterisked (*) frequency performance value are assumed to be met by design.

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