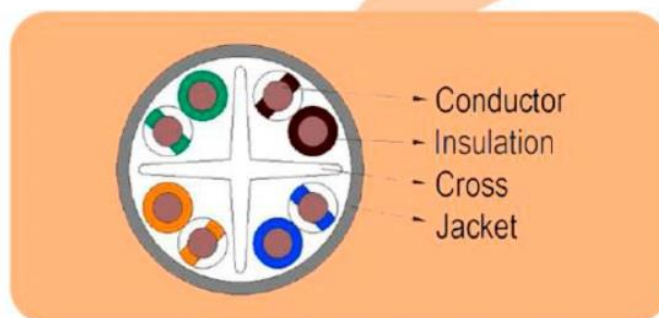
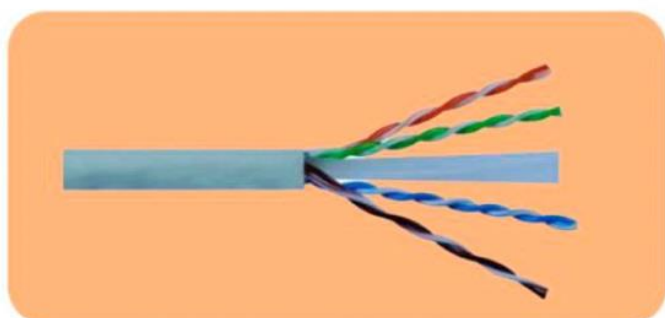


Technical Data Sheet

Cat. 6 U/UTP 4 Pairs 23AWG Unscreened Solid Cable



High Frequency Performance	Category		Category 6, CLASS E			
	Standard Compliance		IEC61156-5, EN50288-6-1, ANSI/TIA568C.2, ISO/IEC11801			
Environmental Compliance	RoHS					
Marking on Sheath	PVC	Jyh Eng U/UTP INSTALL CABLE 23AWG 4PR ETL Verified rated ANSI/TIA 568C.2 CAT.6 XXXXXX-X XXXXM				
	Customization Available					
Example	Cable Sheath Type		Cable Sheath Color		Packaging	
	A B A O A		02017035		24	
Part Number	Cable Sheath Type	Part Number	Color-RAL	Part Number	Length, Packaging	Part Number
	PVC	A B A O A	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	1000FT, Color Easy Box	24
			Yellow-RAL1021	06011021	500M, Wooden Reel	33
			Blue-RAL5015	07015015	1000FT, Wooden Reel	34
			Green-RAL6029	08016029	100M, Wooden Reel (6 in 1)	31
			Orange-RAL2003	09012003	100M, Wooden Reel (8 in 1)	32
Customization Available	By rules					
Apply to Data Center	Cat. 6 U/UTP 4 Pairs 23AWG Unscreened Solid Cable 6 in 1 or 8 in 1.					

Technical Data Sheet

Cat. 6 U/UTP 4 Pairs 23AWG Unscreened Solid Cable

Conductor	Material	Bare Copper	
	Structure	23AWG, 0.551 ± 0.005mm	
Insulation	Material	HDPE	
	Structure	0.99mm	
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	
	Thickness	0.51mm	
	OD	5.9 ± 0.2mm	
Solid Cable with 6 in 1	OD	17.7 ± 1.0mm	
Solid Cable with 8 in 1	OD	21.3 ± 1.0mm	
Pulling Tension	Max. 100N		
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. 9.38 Ohms/100m	Resistance Unbalance @20°C	Within a pair: 5% Max. Between pairs: 4% Max.
Dielectric Strength	1kV DC or 0.7kV AC for 60secs		
Mutual Capacitance	5.6 nF/100m @1kHz	Insulation Resistance @ 20°C, Test Voltage 100V-500V DC	Min. 5000 Mohms.m
Transfer Impedance (Max.)	N/A		
Coupling Attenuation (<1GHz)	Min. 55dB @100MHz	Max. Capacitance Unbalance (Pair to Ground @ 20°C)	330 pF/100m @1kHz
Mean Characteristic Impedance	100 Ohms ± 5 Ohms @100MHz		
Max. Delay Skew @20°C	45 nsec/100m @ 100MHz	Nominal Velocity Propagation	70%

Transmission Characteristics

FREQ MHz	Attenuation (max. dB/100m)	RL (min. dB at 20°C)	NEXT (min. dB)	PS-NEXT (min. dB)	ACRF (min. dB)	PSACRF (min. dB)	TCL (min. dB)	Prop. Delay (max. ns)
1	2.0	20.0	74.3	72.3	67.8	64.8	40	570
4	3.8	23.0	65.3	63.3	55.8	52.8	40	552
8	5.3	24.5	60.8	58.8	49.7	46.7	40	547
10	6.0	25.0	59.3	57.3	47.8	44.8	40	545
16	7.6	25.0	56.2	54.2	43.7	40.7	38	543
20	8.5	25.0	54.8	52.8	41.8	38.8	37	542
25	9.5	24.3	53.3	51.3	39.8	36.8	36	541
31.25	10.7	23.6	51.9	49.9	37.9	34.9	35.1	540
62.5	15.4	21.5	47.4	45.4	31.9	28.9	32	539
100	19.8	20.1	44.3	42.3	27.8	24.8	30	538
200	29.0	18.0	39.8	37.8	21.8	18.8	27	537
250	32.8	17.3	38.3	36.3	19.8	16.8	26	536

(1) All performance based on 100 meters at 20°C. (2) The asterisked (*) frequency performance value are assumed to be met by design.



RoHS
COMPLIANT

