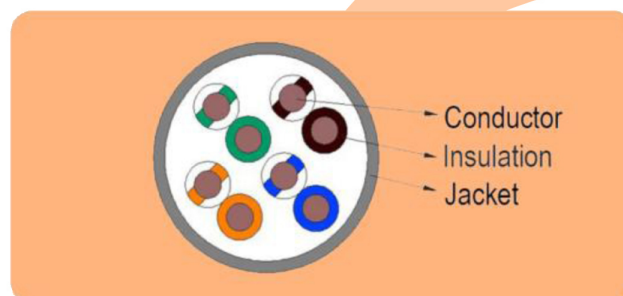
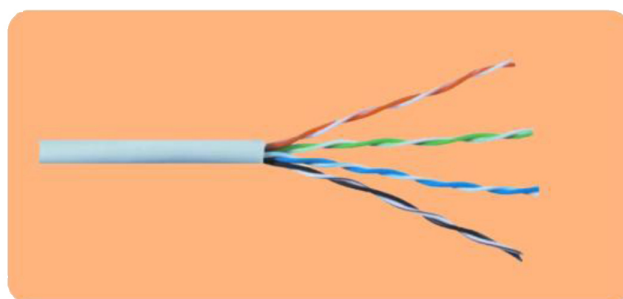




## Technical Data Sheet

### Cat. 5e U/UTP 4 Pairs 24AWG Unscreened Solid Cable



High Frequency Performance	Category	Category 5e, CLASS D	
	Standard Compliance	IEC61156-5, EN50288-3-1 and ANSI/TIA568C.2	
Flame Retardant Standard	Standard Compliance	UL444 CM, CMR, IEC60332-1	
LSOH Standards	IEC60754, IEC61034		
Environmental Compliance	RoHS		
Marking on Sheath	CM PVC	U/UTP INSTALL CABLE 24AWG 4PR CM 75°C (UL) E178558 568C.2 CAT.5E	ETL Verified rated ANSI/TIA
	CMR PVC	U/UTP INSTALL CABLE 24AWG 4PR CMR 75°C (UL) E178558 568C.2 CAT.5E	ETL Verified rated ANSI/TIA
	LSOH	U/UTP INSTALL CABLE 24AWG 4PR ANSI/TIA 568C.2 CAT.5E	ETL Verified LSOH
	Customization Available		

#### Transmission Characteristics

FREQ MHz	Attenuation (max. dB/100m)	RL (min. dB at 20°C)	NEXT (min. dB)	PS-NEXT (min. dB)	ELFEXT (min. dB)	PS-ELFEXT (min. dB)	Prop. Delay (max. ns)
1	2.0	20.0	65.3	62.3	63.8	60.8	570
4	4.1	23.0	56.3	53.3	51.8	48.8	552
8	5.8	24.5	51.8	48.8	45.7	42.7	547
10	6.5	25.0	50.3	47.3	43.8	40.8	545
16	8.2	25.0	47.2	44.2	39.7	36.7	543
20	9.3	25.0	45.8	42.8	37.8	34.8	542
25	10.4	24.3	44.3	41.3	35.8	32.8	541
31.25	11.7	23.6	42.9	39.9	33.9	30.9	540
62.5	17.0	21.5	38.4	35.4	27.9	24.9	539
100	22.0	20.1	35.3	32.3	23.8	20.8	538

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



## Technical Data Sheet

### Cat. 5e U/UTP 4 Pairs 24AWG Unscreened Solid Cable

Conductor	Material	Bare Copper	
	Structure	24AWG, 0.495 ± 0.005mm	
Insulation	Material	HDPE	
	Structure	0.88mm	
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	4.9 ± 0.2mm	
Pulling Tension	Max. 110N		
Bending Radius (without load)	Min. 8 x Cable Diameter		
Temperature Range	Installation Temperature	0 to 50°C	
	Storage Temperature	-20 to 70°C	
	Operation Temperature	-10 to 60°C	
Conductor Loop Resistance @20°C	Max. 9.38 Ohms/100m	Resistance Unbalance @20°C	Within a pair: 5% Max.
Dielectric Strength	1kV DC or 0.7kV AC for 60secs		Between pairs: 4% Max.
Mutual Capacitance	N/A	Insulation Resistance @20°C, Test Voltage 100V-500V DC	Min. 5000 MOhms/km
Transfer Impedance (Max.)	100 mOhms @10MHz		
Coupling Attenuation (<1GHz)	55dB	Max. Capacitance Unbalance (Pair to Ground @20°C)	330 pF/km @1kHz
Mean Characteristic Impedance	100 Ohms ± 5 Ohms @100MHz		
Max. Delay Skew @20°C	45 nsec/100m @ 100MHz	Nominal Velocity Propagation	70%

