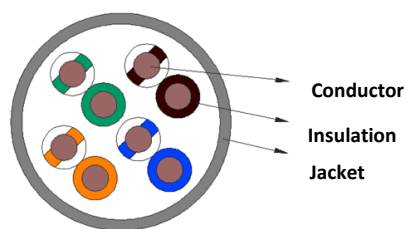
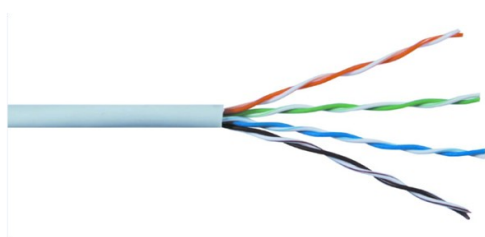


Cat.5E U/UTP 4 Pairs 24 AWG - Unscreened Solid Install Cable



Description

Sumitomo Category 5e U/UTP cables, an enhanced version of Category 5, are designed to perform at frequencies of up to 100MHz and suitable for 10BASE-T, 100BASE-TX Fast Ethernet and 1000BASE-T Gigabit Ethernet. It complies to international telecommunications and electrical standards with ETL verified to ANSI/TIA-568-C.2 Category 5e.

High Frequency Performance	Category	Category 5e, CLASS D	
	Standard Compliance	IEC61156-5, EN50288-3-1, ANSI/TIA568C.2, ISO/IEC11801	
Environmental Compliance	RoHS		
Conductor	Material	Bare Copper	
	Structure	24AWG, 0.512 ± 0.005 mm	
Insulation	Material	HDPE	
	Structure	0.91 mm	
Sheath	Material	PVC or LSZH	
	Thickness	0.51 mm	
	OD	5.0 ± 0.2 mm	
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 Ω/100 m	Resistance Unbalanced @20 °C	Between pairs: 5 % Max.
Dielectric Strength	2.5KV DC or 1.5KV AC for 2 s		
Mutual Capacitance	5.6 nF/100 m @1 kHz	Insulation Resistance @20 °C, Test Voltage 100 V-500 V DC	Min. 5000 M Ω/km
Coupling Attenuation (<1 GHz)	Min. 55 dB @100 MHz	Max. Capacitance Unbalance (Pair to Ground @20 °C)	330 pF/100 m @1 kHz
Mean Characteristic Impedance	100 Ω ± 5 Ω @100 MHz		
Max. Delay Skew @20 °C	45 nsec/100 m @ 100 MHz	Nominal Velocity Propagation	70 %

Transmission Characteristic							
FREQ (MHz)	Attenuation (max. dB/100 m)	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

Notes :

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



ORDERING INFORMATION

Part No	Description
SESG78C5E-24X490001AP	Sumitomo, Category 5e UTP, 24AWG SOLID 0.49 PVC, 305m/box
SESG78C5E-24X512001AP	Sumitomo, Category 5e UTP, 24AWG SOLID 0.512 PVC, 305m/box
SESG78C5E-LSZH24X490001AP	Sumitomo, Category 5e UTP, 24AWG SOLID 0.49 LSZH, 305m/box
SESG78C5E-LSZH24X512001AP	Sumitomo, Category 5e UTP, 24AWG SOLID 0.512 LSZH, 305m/box



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