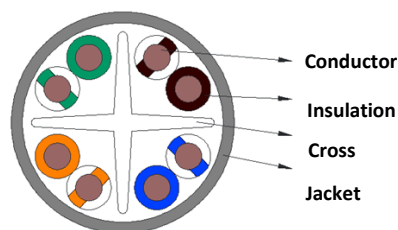
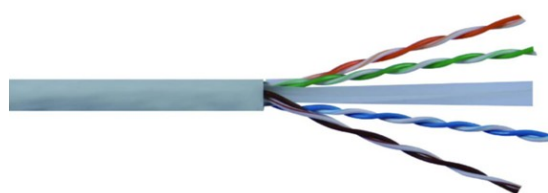


Cat.6 U/UTP 4 Pairs 23 AWG - Unscreened Solid Install Cable



Description

Sumitomo Category 6 U/UTP cables are designed to perform at frequencies of up to 250 MHz and suitable for 10BASE-T, 100BASE-TX Fast Ethernet and 1000BASE-T / 1000BASE-TX (Gigabit Ethernet) applications. It provides sufficient headroom above performance requirements with ETL verified to ANSI/TIA-568-C.2 Category 6, by reducing the crosstalk and system noise with superior star filled insulation design around the 23AWG solid copper wires.

High Frequency Performance	Category	Category 6, CLASS E	
	Standard Compliance	IEC61156-5, EN50288-6-1, ANSI/TIA568C.2, ISO/IEC11801	
Environmental Compliance	RoHS		
Conductor	Material	Bare Copper	
	Structure	23AWG, 0.57 ± 0.005 mm	
Insulation	Material	HDPE	
	Structure	1.02 mm	
Sheath	Material	PVC or LSZH	
	Thickness	0.51 mm	
	OD	6.1± 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	2.5 KV DC or 1.5 KV 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 @1kHz
Mean Characteristic Impedance	100 Ω ± 5 Ω @100 MHz		
Max. Delay Skew @20 °C	45 nsec/100 m @ 100 MHz	Nominal Velocity Propagation	69 %

Transmission Characteristic								
FREQ (MHz)	Attenuation (max. dB/100 m)	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	2.2	20.0	74.3	72.3	67.8	64.8	40	570
4	4.1	23.0	65.3	63.3	55.8	52.8	40	552
8	5.8	24.5	60.8	58.8	49.7	46.7	40	547
10	6.5	25.0	59.3	57.3	47.8	44.8	40	545
16	8.2	25.0	56.2	54.2	43.7	40.7	38	543
20	9.2	25.0	54.8	52.8	41.8	38.8	37	542
25	10.3	24.3	53.3	51.3	39.8	36.8	36	541
31.25	11.4	23.6	51.9	49.9	37.9	34.9	35.1	540
62.5	16.2	21.5	47.4	45.4	31.9	28.9	32	539
100	20.7	20.1	44.3	42.3	27.8	24.8	30	538
200	30.0	18.0	39.8	37.8	21.8	18.8	27	537
250	34.0	17.3	38.3	36.3	19.8	16.8	26	536

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
SESG78C6-23X551001AP	Sumitomo, Category 6 UTP, 23AWG SOLID 0.551 PVC, Star filled design, 305m/box
SESG78C6-23X570001AP	Sumitomo, Category 6 UTP, 23AWG SOLID 0.57 PVC, Star filled design, 305m/box
SESG78C6-LSZH23X551001AP	Sumitomo, Category 6 UTP, 23AWG SOLID 0.551 LSZH, Star filled design, 305m/box
SESG78C6-LSZH23X570001AP	Sumitomo, Category 6 UTP, 23AWG SOLID 0.57 LSZH, Star filled design, 305m/box