# Screened Cat 6, F/UTP, LSZH Cable









## **Application**

Category 6 supports a frequency range of up to 250MHz and is designed for transmission speeds of up to 1 gigabit per second (Gigabit Ethernet).

### **Characteristics**

Minimum Bending Radius : 8 × overall diameter
Core Identification : Pair 1: Blue, White/Blue

Pair 2: Orange, White/Orange Pair 3: Green, White/Green Pair 4: Brown, White/Brown

Outer Sheath Colour : Violet

## **Cable Standards**

ISO / IEC 11801, TIA 568-C.2, YD/T1019

### Construction

#### Conductor

Solid bare copper conductor

#### Insulation

HDPE (High Density Polyethylene)

#### Screer

Mylar + Aluminium foil/Mylar

### **Drain Wire**

Tinned copper

#### Sheath

LSZH (Low Smoke Zero Halogen)

This product range is available on reels of 305m or per metre

## **Dimensions**

No. of Pairs (23 AWG)	Nominal Diameter of Conductor mm		Nominal Diameter Over	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight kg/305m
	+0.005 UP	-0.005 DOWN	Insulation mm	mm	mm	box
4	0.565		1.12	0.55	7.4	14

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## **Physical Properties of Sheath**

Before	Aging	Aging Period	After Aging Period		
Tensile Strength (Mpa)	Elongation (%)	C°×hrs	Tensile Strength (Mpa)	Elongation (%)	
≥10.0	≥125	100°C×24h×7d	≥8.0	≥100	

### **Performance Characteristics**

Frequency MHz	RL dB	Attenuation dB	NEXT dB	Delay ns	PS-NEXT dB	ELFEXT dB	PSELFEXT dB
1	20	-	74.3	570	72.3	68	65
4	23	3.78	65.3	552	63.3	56	53
8	24.5	5.32	60.8	546.73	58.7	49.9	46.9
10	25	5.95	59.3	545.38	57.3	48	45
16	25	7.55	56.2	543	54.2	43.9	40.9
20	25	8.47	54.8	542.05	52.8	42	39
25	24.3	9.51	53.3	541.2	51.3	40	37
31.25	23.6	10.67	52	540.44	49.9	38.1	35.1
62.5	21.5	15.38	47.4	538.55	45.4	32.1	29.1
100	20.1	19.8	44.3	537.6	42.3	28	25
200	18	28.98	39.8	536.54	37.8	22	19
250	17.3	32.85	38.3	536.27	36.3	20	17

## **Electrical Characteristics at 20°C**

Impedance (1-250MHz) Ω	Delay Shew (1-250MHz) Ω	Maximum Capacitance (Unbalanced to Ground) ns/100m	Maximum DC Resistance at 20°C Ω/100m	Maximum DC Conductor Resistance Unbalance %
100±15	≤45	330	9.5	5.0

## **Part Number Table**

Description	Cable Length	Part Number	
Screened Network Cable, Cat 6, F/UTP, LSZH, 4 Pair, 23AWG, Violet	305m or per metre	PP002143	

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