

# Cat 5E Unshielded Twisted Paired LSZH Cable

**multicomp** PRO



**RoHS  
Compliant**

## Application:

An armoured multi-pair high performance cable that consists of twisted pairs, used mainly for data transmission. Category 5E cables support a frequency range of up to 100MHz and designed for transmission speeds of up to 1 gigabit per second (Gigabit Ethernet).

## Cable Standards:

Made in accordance with the following:  
BS EN/IEC 60332-1

## Construction:

Conductor	: Class 1 solid copper conductor
Insulation	: HDPE (High Density Polyethylene)
Inner Jacket 1	: LSZH (Low Smoke Zero Halogen)
Inner Jacket 2	: LSZH (Low Smoke Zero Halogen)
Armour	: SWA (Steel Wire Armour)
Sheath	: LSZH (Low Smoke Zero Halogen)

## Characteristics:

Voltage Rating	: 600V
Temperature Rating	: -20°C to +60°C
Pair Identification	: Pair 1: Blue and White/Blue Pair 2: Orange and White/Orange Pair 3: Green and White/Green Pair 4: Brown and White/Brown
Sheath Colour	: Black

## Electrical Characteristics:

Impedance	: 100Ω ±15
Max. DC Resistance of Conductor at 20°C	: <96.5Ω/km
Velocity Ratio %	: 65

Frequency MHz	RL dB	Insertion Loss dB	Next dB	ACR-N dB	ACR-F dB
1	19	4	60	56	58.6
4	19	4	54.8	50.8	44.6
8	19	5.4	50	44.6	40.6
10	19	6.1	48.5	42.4	38.6
16	19	7.7	45.2	37.5	34.5
20	19	8.7	43.7	35	32.6
25	18	9.7	42.1	32.4	30.7

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Frequency MHz	RL dB	Insertion Loss dB	Next dB	ACR-N dB	ACR-F dB
31.25	17.1	10.9	40.5	29.6	28.7
62.5	14	15.8	35.7	19.8	22.7
100	12	20.4	32.3	11.9	18.6

## Dimensions:

No. of Pairs	AWG	Strand Diameter	Nominal Overall Diameter
4	24	0.51mm	12.8mm

## Part Number Table

Description	Reel Length (m)	Part Number
Cat 5E Unshielded Twisted Paired LSZH Cable	50	PP000859

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