

Cat 5E Unshielded Twisted Paired LSZH Cable

pro-POWER



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

www.element14.com
www.farnell.com
www.newark.com
www.cpc.co.uk

pro-POWER

Cat 5E Unshielded Twisted Paired LSZH Cable



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

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. pro-POWER is the registered trademark of the Group. © Premier Farnell plc 2012.