



Cat 5e UTP LSZH Cable

BATT Part No:	Violet : 54194 Orange: 54242 Grey: 54282
Applications:	These cables offer excellent transmission characteristics, above the requirements for enhanced category 5 with transmission quality much above other cables in the market for this category. 10BASE-T (IEEE 802.3), 4/16 Mbps Token Ring (IEEE 802.5), 100BASE-VG-Any LAN, 100 Mbps TP-PMD (ANXI X3T9.5) 100 BASE-T (IEEE 802.3), 55/155 Mbps ATM, 1000BASE-T (Gigabit Ethernet)
Conductors:	24 AWG (0.51mm) solid bare annealed copper
Insulation:	PE (Polyethylene)
Pairing:	Varying short pair lay length (4 pairs)
Sheath:	LSZH material, cables comply with IEC 60332-1 Type Exzhellent: Green LSZH material, cables comply with IEC 60332-3-24
DC Resistance:	8.90 Ohm/100m (328ft) at 20°C
Mutual capacitance:	5.60 nF/100m (328ft) at 1kHz
Nominal velocity of propagation:	68 (% of speed of light)
Characteristic impedance:	Value at: 772kHz: 87 – 117 ohm Value at: 1.0-200Mhz: 85 – 115 ohm
Return loss dB (min):	1.0 – 10 MHz: 20+5log(f) 10 – 20 MHz: 25 20 - 100 MHz: 25-7log (f/20)
Propagation delay (max):	518(ns/10MHz)
Delay skew (max):	45(ns/100m)
External diameter:	Type 332-1: 5.1mm Type Exzhellent: 6.2mm
Weight:	Type 332-1: 31.0 kg/km Type Exzhellent: 47.0 kg/km
Min bending radius:	Type 332-1: 4 x outer diameter =21mm Type Exzhellent: 4 x outer diameter = 25
Installation temperature:	-20 / +50°C
Operating temperature:	-20 / +60°C
Calorific value:	0.498 MJ/m
Standards:	IEC 60332-1, IEC 60332-3-24 LSZH: UNE-EN 50268, UNE-EN 50267-2-1, Exzhellent: IEC 60332-3-24, UNE 50266-2-4, ANSI/TIA/EIA 568-B.2 (Cat 5e), ISO/IEC 11801, IEC 61156-5, EN 50173, EN50288

Frequency MHz	Attenuat Max dB/100m	NEXT dB/100m (min)	PS-NEXT dB/100m (min)	ELFEXT dB/100m (min)	PS-ELFEXT dB/100m (min)
0.772	1.8	72.0	69.0	68.2	65.2
1	2.1	70.3	69.3	66.0	53.0
4	4.0	61.3	58.3	54.0	51.0
8	5.6	56.8	53.6	47.9	44.9
10	6.2	55.3	52.3	46.0	43.0
16	7.9	52.2	49.2	41.9	38.9
25	10.0	49.3	46.3	38.0	35.0
31.25	11.2	47.9	44.9	36.1	33.1
32.5	16.2	43.4	40.4	30.1	27.1
100	20.9	40.3	37.3	26.0	23.0
155	26.7	37.4	34.4	22.2	19.2
200	30.8	35.8	32.8	20.0	17.0