

UTP Cat 5e (200 MHz) (LSZH sheath, acc. IEC 60332-1 and IEC 60332-3-24 specs)



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, EN 50288

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. They have a LSZH external sheath.



CONSTRUCTION

Conductor	24 AWG (0,51 mm) solid bare annealed Copper
Insulation	Polyolefin
Pairing	Varying short pair lay-length (4 pairs)
Sheath	Type 332-1: Grey LSZH material, cables comply with IEC 60332-1 Type Exzhellent: Green LSZH material, cables comply with IEC 60332-3-24

APPLICATIONS

- 10BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100BASE-VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 100BASE-T (IEEE 802.3)
- 55/155 Mbps ATM
- 1000BASE-T (Gigabit Ethernet)

COLOUR CODE

Pairs	Colour combination
1	white □ blue ■ blue ■ blue
2	white □ orange ■ orange ■ orange
3	white □ green ■ green ■ green
4	white □ brown ■ brown ■ brown

ELECTRICAL AND CONSTRUCTIVE VALUES

DC resistance (max)	Ohm/100m(328 ft) @ 20°C	8,90
Mutual capacitance (nominal)	nF/100m(328 ft) @ 1kHz	5,60
Nominal velocity of propagation NVP (% speed of light)		68
Characteristic impedance (Ohm) Value at	772 kHz 1.0-200 MHz	(min-max) 87-117 85-115
Return Loss (RL) dB (min) Value at	1.0 - 10 MHz 10 - 20 MHz 20 - 100 MHz	20+5log(f) 25 25-7log(f/20)
Propagation Delay (max) (ns @ 10 MHz)		518
Delay skew (max) (ns/100 m)		45
External diameter (mm)		5,1 (Type 332-1) 6,2 (Type Exzhellent)
Weight (kg/km)		31,0 (Type 332-1) 47,0 (Type Exzhellent)
Minimum bending radius	4 x Outer Diameter = 21 mm (Type 332-1) 4 x Outer Diameter = 25 (Type Exzhellent)	
Installation temperature (°C)		- 20 / + 50
Operating temperature (°C)		- 20 / + 60
Calorific value (MJ/m)		0,498

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	67,3	66,0	53,0
4	4,0	61,3	58,3	54,0	51,0
8	5,6	56,8	53,8	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
62,5	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

ORDERING INFORMATION

Code	Pairs/AWG	Sheath	Packing
530004CVDP	4/24	LSZH material, Green	Pull-Pac boxes 305 m
530104CVDP	4/24	LSZH, Green	Spools 1.000 m
530104CVDPQ	4/24	LSZH, Green	Spools 500 m
531104CC4P	4/24	Special LSZH material, Green	Spools 500 / 1.000 m

305m

500m

1000m