

Category 6 UTP Cables

Category 6 UTP PVC Cables

Clipsal Titanium® 4-Pair Category 6 Cable is a superior product delivering excellent network performance when used in conjunction with other Clipsal Titanium® Category 6 products.

The Category 6 cable consists of 4 pairs of solid insulated copper 23AWG (0.57mm) and is UL listed with a CM fire rating. It is designed for use in horizontal cabling situations and supplied in 305m (1,000ft) easy pull out boxes.

The Category 6 cable provides a significant margin (10dB) above the minimum Category 6 Near End Crosstalk NEXT requirement of ANSI/TIA/EIA-568 and ISO/IEC 11801.

Category 6 UTP LSZH Cables

The availability of a central filler helps in delivering superior cross-talk isolation and therefore ensures excellent performance. This precision and unique manufacturing process design allows for easy removal, which maximises both performance and termination.

Clipsal Category 6 LSZH 4-Pair Cables are designed to carry high-bandwidth applications, including the IEEE 802.3AB 1000 Base-T (Gigabit Ethernet), TIA/EIA 1000 Base-TX, 1.2Gb/s ATM and any future applications designed for Category 6/Class E cabling, as well as analogue broadband video.

Insulated with non-halogen high-density polyethylene and covered with low smoke zero halogen compounds. It is designed for use in horizontal cabling situations where building smoke requirements mandate low smoke and zero halogen installation and supplied in 305m (1,000ft) easy pull out boxes.

The Clipsal LSZH Cable is IEC tested for low smoke and non-halogen emission and passes the following tests:

- IEC 754 part 2, Non-Halogen based on pH and Conductivity Measurements
- IEC 1034 part 2, Smoke Emission
- IEC 332 part 3, Flammability and Fire Retardant
- NES 713: Toxicity Index ELECTRICAL

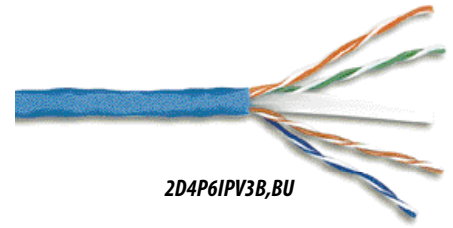
TECHNICAL INFORMATION

Physical Specifications

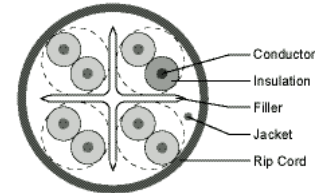
Rated Temperature	75°C
Product Standard Certification	UL File E197794
Flammability Test	CM, LSZH
Application	Horizontal Wiring in LAN
Reference Standard	UL Subject 444, EIA/TIA568 & ISO/IEC 11801, IEC61156-5

CONSTRUCTION

Conductor	Solid Bare Copper
AWG	23
Conductor Dia. Nom. (mm)	0.54
Insulation	PE
Average Thickness (mm)	0.22
Min. Point Thickness (mm)	0.18
Insulation Diameter (±0.10mm)	0.95
Twisting Lay Length (mm)	30 underneath
Cabling Lay Length (mm)	200 underneath
Filler	PE
Jacket	PVC
Average Thickness (±0.05mm)	0.50
Min. Point Thickness (mm)	0.43
Outer Diameter (±0.2mm)	6.00
Rip Cord	YES



2D4P6IPV3B,BU



PRODUCT FEATURES

- Complies with Category 6 ANSI/TIA/EIA-568 & ISO/IEC 11801 Standard.
- 23AWG conductors and the transmission is certified to 250MHz.
- UL Listed CM Fire rated.
- Exceeds Category 6 ANSI/TIA/EIA-568 and ISO/IEC 11801 Standards.
- Supports transmission of digital and analogue voice, data and video signal.
- Supports Gigabit Ethernet (1000 Base-T).
- Industry leading Lifetime Warranty - unique to the market!

Category 6 UTP Cables

ELECTRICAL CHARACTERISTICS

Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	Delay (ns/100m)
1	20.0	2.0	74.3	72	72.3	67.8	64.8	570.0
4	23.0	3.8	65.3	61	63.3	55.8	52.8	552.0
8	24.5	5.3	60.8	55	58.8	49.7	46.7	546.7
10	25.0	6.0	59.3	53	57.3	47.8	44.8	545.4
16	25.0	7.6	56.2	49	54.2	43.7	40.7	543.0
20	25	8.5	54.8	46	52.8	41.8	38.8	542.0
25	24.3	9.5	53.3	44	51.3	39.8	36.8	541.2
31.25	23.6	10.7	51.9	41	49.9	37.9	34.9	540.4
62.5	21.5	15.4	47.4	32	45.4	31.9	28.9	538.6
100	20.1	19.8	44.3	25	42.3	27.8	24.8	537.6
150	18.9	24.7	41.7	16.9	39.7	24.3	21.3	536.9
200	18.0	29.0	39.8	10.8	37.8	21.8	18.8	536.5
250	17.3	32.8	38.3	5.5	36.3	19.8	16.8	536.3

1.0-100.0MHz Input Impedance (Ohms)	100±6
100-250MHz Input Impedance (Ohms)	100±6
1.0-250.0MHz Delay Skew (ns/100m)	≤45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≤330
Max. Conductor DC Resistance 20°C (Ohms/km)	73.2
Resistance Unbalance (%)	≤5

CATALOGUE NUMBER DESCRIPTION

PVC Cables

2D4P6IPV3B, BU Category 6, 4-Pair, UTP, PVC, CM Rated, Clipsal Titanium Cable, 305m, Blue

2D4P6IPVR3B, BU Category 6, 4-Pair, UTP, PVC, CMR Rated, Clipsal Titanium Cable, 305m, Blue

LSZH Cables

2D4P6ILS3B, BU Category 6, 4-Pair, UTP, LSZH, Clipsal Titanium Cable, 305m, Blue

2D4P6ILS3B, GY Category 6, 4-Pair, UTP, LSZH, Clipsal Titanium Cable, 305m, Grey