

Cat.6 UTP Cable — 0.52mm 24AWG

Unshielded Twisted Pair (UTP) Data Cable | Drop cable for interior application

CONSTRUCTION & DESCRIPTION

Application	Drop cable for interior application	Jacket Material	PVC
Rated Temperature	70 °C	Jacket Thickness	Nom. 0.60 mm (Min. 0.43 mm)
Reference Standards	UL444, TIA/EIA568C, ISO/IEC 11801	Overall Outer Diameter	6.0 ± 0.30 mm
	BS EN 50290-23/22, BS EN 60228, RoHS	Rip Cord	Yes
Conductor	Bare Copper, AWG 24	Twisting Lay Length	32 mm (underneath)
Conductor Diameter	0.52 ± 0.01 mm	Cabling Lay Length	210 mm (underneath)
Insulation	PE, Nom. 0.23 mm (Min. 0.17 mm)	Impedance (1–100 MHz)	100 ± 15 Ω
Insulation Diameter	1.0 ± 0.03 mm	Delay Skew (1–100 MHz)	≤ 45 ns/100m

INSULATION & JACKET COLOUR

Pair Colours	Blue/White-Blue, Orange/White-Orange, Green/White-Green, Brown/White-Brown
Jacket Colour	Grey
Marking	Pixel

ELECTRICAL PERFORMANCE

Freq. (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB)
1	20.0	2.0	65.3	63.0
4	23.0	4.1	56.3	52.0
8	24.5	5.8	51.8	46.0
10	25.0	6.5	50.3	44.0
16	25.0	8.2	47.3	39.0
20	25.0	9.3	45.8	37.0
25	24.3	10.4	44.3	34.0
31.25	23.6	11.7	42.9	31.0
62.5	21.5	17.0	38.4	21.0
100	20.1	22.0	35.3	13.0
200	18.0	27.6	39.8	37.8
250	17.3	31.1	38.3	36.3

Freq. (MHz)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
1	62.3	63.8	60.8	570.0
4	53.3	51.7	48.7	552.0
8	48.8	45.7	42.7	546.7
10	47.3	43.8	40.8	545.4
16	44.3	39.7	36.7	543.0
20	42.8	37.7	34.7	542.0

Freq. (MHz)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
25	41.3	35.8	32.8	541.2
31.25	39.9	33.9	30.9	540.4
62.5	35.4	27.8	24.8	538.6
100	32.3	23.8	20.8	537.6
200	21.8	18.8	26.5	546.5
250	19.8	16.8	24.8	546.3

MECHANICAL CHARACTERISTICS & PACKAGE

Test Object / Material	Jacket / PVC	Max. Conductor DC Resistance	≤ 85 Ω/km @ 20°C
Tensile Strength (before aging)	≥ 12.5 Mpa	Resistance Unbalance	≤ 5%
Elongation (before aging)	≥ 125%	Pair-to-Ground Cap. Unbalance	≤ 330 pF/100m
Aging Condition	80 × 168 °C×hrs	Packaging	305m (1000ft) / Box
Tensile Strength (after aging)	± 20%	Box Dimensions	390 × 210 × 390 mm
Elongation (after aging)	± 20%	Net / Gross Weight	11.5 kg / 12.5 kg
Cold Bend (-15±2°C × 4hrs)	No Crack	Stack	6

