

Cat.6a UTP Cable — 23AWG

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	BS EN 50290-23, BS EN 50290-22	Overall Outer Diameter	6.30 ± 0.30 mm
	TIA/EIA 568, ISO/IEC 11801, RoHS	Rip Cord	Yes
		Twisting Lay Length	32 mm (underneath)
Conductor	Bare Copper, AWG 23	Cabling Lay Length	210 mm (underneath)
Conductor Diameter	0.57 ± 0.01 mm	Impedance (1–100 MHz)	100 ± 15 Ω
Insulation	PE, Nom. 0.26 mm (Min. 0.20 mm)	Delay Skew (1–100 MHz)	≤ 45 ns/100m
Insulation Diameter	1.10 ± 0.05 mm		

INSULATION & JACKET COLOUR

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

ELECTRICAL PERFORMANCE

Freq. (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB)
4	23.0	3.8	66.3	63.3
8	24.5	5.3	61.8	58.8
10	25.0	5.9	60.3	57.3
16	25.0	7.5	57.2	54.2
20	25.0	8.4	55.8	52.8
25	24.3	9.4	54.3	51.3
31.25	23.6	10.5	52.9	49.9
62.5	21.5	15.0	48.4	45.4
100	20.1	19.1	45.3	42.3
200	18.0	27.6	40.8	37.8
250	17.3	31.1	39.3	36.3
300	17.3	34.3	38.1	35.1
400	17.3	40.1	36.3	33.3
500	17.3	45.3	34.8	31.8

Freq. (MHz)	ACR (dB)	PSACR (dB)	ELFEXT (dB/100m)	Delay (ns/100m)
4	55.8	52.8	56.0	552.0
8	49.7	46.7	49.9	547.0
10	47.8	44.8	48.0	545.0
16	43.7	40.7	43.9	543.0

Freq. (MHz)	ACR (dB)	PSACR (dB)	ELFEXT (dB/100m)	Delay (ns/100m)
20	41.8	38.8	42.0	542.0
25	39.8	36.8	40.0	541.0
31.25	37.9	34.9	38.1	540.0
62.5	31.9	28.9	32.1	539.0
100	27.8	24.8	28.0	538.0
200	21.8	18.8	22.0	537.0
250	19.8	16.8	20.0	536.0
300	18.3	15.3	18.5	536.0
400	15.8	12.8	16.0	536.0
500	13.8	10.8	14.0	536.0

MECHANICAL CHARACTERISTICS & PACKAGE

Test Object / Material	Jacket / PVC	Max. Conductor DC Resistance	≤ 73.2 Ω/km @ 20°C
Tensile Strength (before aging)	≥ 12.5 Mpa	Resistance Unbalance	≤ 2.5%
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)	± 60%	Box Dimensions	410 × 410 × 230 mm
Elongation (after aging)	± 60%	Net / Gross Weight	13.0 kg / 14.0 kg
Cold Impact	15 ± 2 °C	Stack	6

