



## Cat 6 UTP PVC Cable

<b>BATT Part No:</b>	Grey: 54267 Black: 54269
<b>Applications:</b>	Horizontal building backbone cable to support cat 6 and cat 5e applications, such as 10 Base-T, 100 Base-T, 1000Base-T, FDDI, ATM
<b>Conductor:</b>	23 awg solid bare copper (0.57mm)
<b>Insulation:</b>	Polyolefin
<b>Diameter:</b>	1.01mm
<b>Core colours::</b>	Pair:4 twisted pairs: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown Conductor identification according to IEC 60304
<b>Cross web:</b>	FRNC compound
<b>Sheath:</b>	FRNC compound, violet
<b>Overall diameter:</b>	6.20mm
<b>DC resistance (max) 0hm/100m (328ft) at 20°C</b>	8.90
<b>Resistance unbalance (max) Individual pair %</b>	2.0
<b>Mutual capacitance (nominal) nF/100m (328ft) at 1kHz</b>	5.20
<b>Nominal velocity of propagation NVP (% speed of light)</b>	68
<b>Characteristic impedance (0hm) value at</b>	
1.0 – 100 MHz	85-115
100 – 350 MHz	78-122
350 – 500 MHz	68-132
<b>Propagation Delay (man) (ns at 10MHz)</b>	518
<b>Delay skew (max) (ns/100m)</b>	45
<b>External diameter (mm)</b>	6.2
<b>Weight (kg/km)</b>	42
<b>Minimum bending radius (mm)</b>	4 x outer diameter = 25
<b>Standards:</b>	ISO/IEC 11801 2nd edition (2002), EN 50173 2nd edition (2001), ANSI/TIA/EIA 568-b.2 (2002)

### Transmission Performance

F in MHz	Attenuation (dB/100m) nom.	NEXT (dB) nom.	PSANEXT (dB) nom.	ACR (dB/100m) nom.	ELFEXT (dB/100m) nom.	RL (dB) nom.
0.772	1.6	77.5	74.5	94.8	71.1	-
1	1.8	76.7	73.7	92.9	70.0	37.4
4	3.5	72.1	69.1	82	64.0	35.6
8	5	69.9	66.9	75.9	59.9	34.7
10	6.5	69.2	66.2	73.9	58.0	34.4
16	8.2	67.6	64.6	69.3	53.9	33.8
25	8.8	66.2	63.2	64.5	50.0	33.6
31.25	9.9	65.4	62.4	61.9	48.1	33.3
62.5	14.1	61.9	58.9	53.1	42.1	33
100	18	58.9	55.9	46.1	38.0	32.1
155	22.7	56.0	53.0	38.5	34.2	31.5
200	26	54.3	51.3	33.5	32.0	30.6
250	29.2	52.9	49.9	28.8	30.0	30.4
350	35.1	50.7	47.7	20.7	27.1	-
400	38.1	49.8	46.8	16.8	26.0	-
500	43	48.4	45.4	10.5	24.0	-

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