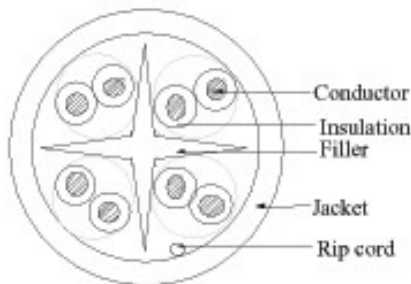




# 4 PAIR 23 AWG CAT6 UTP CABLE



## Physical Construction:

Conductor	Solid Bare Copper
AWG	23
Conductor Dia. (+0.008/-0.01mm)	0.574
Insulation	PE
Average Thickness (± 0.03 mm)	0.22
Min. Point Thickness (mm)	0.20
Insulation Dia. (± 0.03 mm)	1.04
Twisting Lay Length (mm)	30 underneath
Cabling Lay Length (±10 mm)	140
Jacket	PVC
Average Thickness (mm)	0.48
Min. Point Thickness (mm)	0.43
Outer Dia. (±0.2 mm)	6.30
Filler	PE
Rip Cord	Per Request
Weight (kg/km)	42
Packing	1,000ft/Spool

## Color:

### Insulation Colors

Blue, White/Blue  
Orange, White/Orange  
Green, White/Green  
Brown, White/Brown

### Jacket Colors

Per Request

## Performance

### Electrical Characteristics:

Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB)
1	20.0	2.0	74.3	72
4	23.0	3.8	65.3	61
8	24.5	5.3	60.8	55
10	25.0	6.0	59.3	53
16	25.0	7.6	56.2	49
20	25.0	8.5	54.8	46
25	24.3	9.5	53.3	44
31.25	23.6	10.7	51.9	41
62.5	21.5	15.4	47.4	32
100	20.1	19.8	44.3	25
150	18.9	24.7	41.7	16.9
200	18.0	29.0	39.8	10.8
250	17.3	32.8	38.3	5.5

Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
1	72.3	67.8	64.8	570.0
4	63.3	55.8	52.8	552.0
8	58.8	49.7	46.7	546.7
10	57.3	47.8	44.8	545.4
16	54.2	43.7	40.7	543.0
20	52.8	41.8	38.8	542.0
25	51.3	39.8	36.8	541.2
31.25	49.9	37.9	34.9	540.4
62.5	45.4	31.9	28.9	538.6
100	42.3	27.8	24.8	537.6
150	39.7	24.3	21.3	536.9
200	37.8	21.8	18.8	536.5
250	36.3	19.8	16.8	536.3

1.0 – 100.0 MHz Impedance (ohms)	100 ± 15
100.0 – 250.0 MHz Impedance (ohms)	100 ± 20
1.0 – 250.0 MHz 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

### Mechanical Characteristics:

Test Object	Jacket
Test Material	PVC
Before Tensile Strength (Mpa)	≥ 13.8
Aging Elongation (%)	≥ 100
Aging Condition (°C x hrs)	100 x 240
After Tensile Strength (Mpa)	≥ 85% of unaged
Aging Elongation (%)	≥ 50% of unaged
Cold Bend (-20 ± 2°C x 4 hrs)	No Crack

Note\* The specifications are subjected to change without prior notice.

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