



U/UTP Cat6A Patch Cables

□ Applications:

10Base-T, 100Base-T, 1000Base-T, 10GBase-T

□ Standards:

ISO / IEC 11801, EN50173, IEC 61156-5; EN 50288-11-1

□ Product Construction:

	U/UTP Round	U/UTP Flat
Conductor	24AWG Stranded Plain Copper	30AWG Stranded Plain Copper
Insulation	HDPE	HDPE
Screen	Nil	Nil
Drain Wire	Nil	Nil
Jacket	PE/PVC/LSF/LSZH/LSFROH	PE/PVC/LSF/LSZH/LSFROH

Outer nylon braid for option

□ Working Frequency:

1-500MHz

□ Technical Parameters:

- ☆ Characteristic Impedance: $100 \pm 5\Omega$ (100MHz)
- ☆ Nominal Velocity of Propagation (NVP): 66%
- ☆ Maximum Mutual Capacitance: 4.3nF/100m at 800Hz
- ☆ Maximum Capacitance Unbalance: 150pF/100m
- ☆ Maximum DC Resistance: $16\Omega/100m$
- ☆ Maximum Resistance Unbalance: 2%
- ☆ Maximum Propagation Delay Skew: 12ns/100m
- ☆ Minimum Bending radius: 4 x O.D. for installation; 8 x O.D. for installed
- ☆ Maximum Pulling load: 80N
- ☆ Working Temperature: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- ☆ Storage Temperature: $0^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- ☆ Flame Retardancy:
 - UL 1581 (CM Jacket); UL 1666 (CMR Jacket);
 - UL 910 (CMP Jacket); IEC 60332-1 (FRPVC & LSZH Jacket);
 - IEC 60332-1 & IEC 60332-3C (LSFROH Jacket)

□ Product Categories:

U/UTP Round

Construction	Conductor No./Strand Dia. (mm)	Diameter Over Insulation (mm)	Pairs	Screen	Approx. O.D. (mm)	Jacket
U/UTP 24AWG	7/0.20	1.0	4	Nil	6.0	PVC/LSZH/LSFROH



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----->> Data Cable

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U/UTP Flat

Construction	Conductor No./Strand Dia. (mm)	Diameter Over Insulation (mm)	Pairs	Screen	Approx. O.D. (mm)	Jacket
U/UTP 30AWG	7/0.10	0.7	4	Nil	1.55*6.0	PVC/LSZH/LSFROH

□ Product Highlights:

- ☆ Provide excellent NEXT and attenuation performance beyond 500 MHz.
- ☆ Support 10 Gigabit Ethernet application.
- ☆ Meet the strict flame retardancy and environmental requirements in Europe and US.
- ☆ Different jacket materials available for choice.
- ☆ Special purpose cables can be offered according to customer request.
- ☆ Different jacket color options available for choice.

□ U/UTP Cat 6A Transmission Properties:

Frequency	Attenuation	NEXT (dB)	ACRF (dB)	PS.NEXT (dB)	PS.ACRF (dB)	RL (dB)	Delay (ns/100m)	Skew (ns/100m)
MHz	dB	dB/100m	ns/100m	ns/100m	dB	dB	dB/100m	dB/100m
1	4.05	74.30	72.30	67.80	64.80	20.00	570.00	45
4	7.41	65.27	63.27	55.76	52.80	23.00	552.00	
8	10.35	60.75	58.75	49.74	46.70	24.50	546.73	
10	11.55	59.30	57.30	47.80	44.80	25.00	545.38	
16	14.60	56.24	54.24	43.72	40.70	25.00	543.00	
20	16.34	54.78	52.78	41.78	38.80	25.00	542.05	
25	18.29	53.30	51.33	39.84	36.80	24.30	541.20	
31.25	20.48	51.88	49.88	37.90	34.90	23.60	540.44	
62.5	29.23	47.36	45.36	31.88	28.90	21.50	538.55	
100	37.31	44.30	42.30	27.80	24.80	20.10	537.60	
150	46.17	41.66	39.66	24.28	21.28	17.47	536.94	
200	53.77	39.78	37.78	21.78	18.80	18.00	536.55	
250	60.58	38.33	36.33	19.84	16.80	17.30	536.28	
300	66.82	37.14	35.14	18.26	15.30	16.80	536.08	
350	72.63	36.14	34.14	16.92	13.92	14.31	535.92	
400	78.10	35.27	33.27	15.76	12.80	15.90	535.80	
450	83.29	34.50	32.50	14.74	11.70	13.37	535.70	
500	88.25	33.82	31.82	13.82	10.80	15.20	535.61	

Note: The above transmission performance for the 100M, 20±2°C under the conditions tested.