

Category 6 PVC, LSZH & External UTP Cable



Matrix Cat6 UTP Cable exceeds all the requirements of:

- ANSI/TIA/EIA-568-B.2-1 Category 6
- ISO/IEC 11801 Category 6

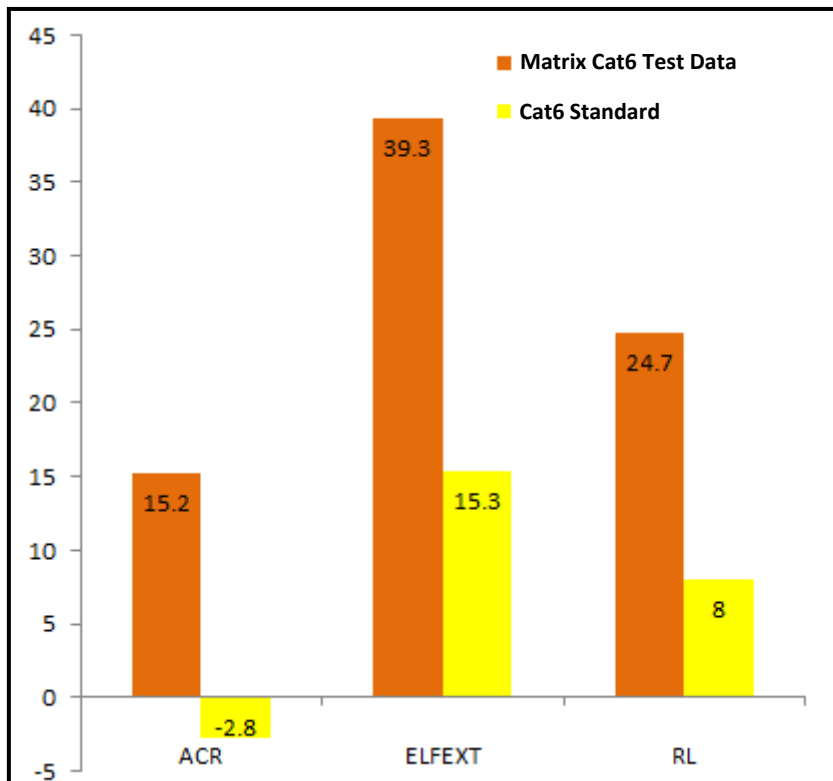
Available with:

- Violet LSZH sheath
- Grey PVC sheath
- External Black double sheath - 500metre reel

Features:

- Reverse sequential metre marking
- 305m Snag-free “reel in a box” cable dispenser
- 23 AWG solid copper conductors

Description	Part Number
Cat 6 LSZH	MATRIX-C6-UTP-VI-L-SO
Cat 6 PVC	MATRIX-C6-UTP-GY-P-SO
Cat 6 External	MATRIX-C6-UTP-BK-SO-500REEL



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Specifications

Mechanical Characteristics

- Insulation Type : HDPE
- Outer Sheath : LSZH or PVC
- Operating temperature $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Cable	Conductor \varnothing	Insulation \varnothing	Overall \varnothing
Cat6 PVC	0.545 mm	0.25 mm	5.80 ± 0.2 mm
Cat6 LSZH	0.565 mm	0.25 mm	5.90 ± 0.2 mm
Cat6 External	0.545 mm	0.25 mm	6.20 ± 0.2 mm



Electrical Performance

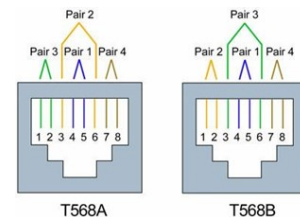
- Conductor Resistance : $93.8\Omega/\text{km}$ @ 20°C Max.
- Mutual Capacitance : $5.6 \text{ nF}/100\text{m}$ Max.
- Resistance Unbalance : 5% Max.
- Capacitance Unbalance : $330 \text{ pF}/100\text{m}$ Max.
- Impedance : $F \leq 200:100$ +/- 15Ω , $F > 200:100$ +/- 22Ω
- Nominal Velocity of Propagation (NVP) : 69%

Colour Codes

- Pair 1: Blue + White/Blue
- Pair 2: Orange + White/Orange
- Pair 3: Green + White/Green
- Pair 4: Brown + White/Brown

Application - High Speed Horizontal Cabling

- 100Mbps TPDDI
- 1000 Base T
- 622Mbps ATM
- IEEE802.3/IEEE802.5
- Digital Video



Frequency (Mhz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
0.772	19.4	1.8	76.0	74.2	74.0	70.0	67.0	575.0
1	20.0	2.0	74.3	72.3	72.3	67.8	64.8	570.0
4	23.0	3.8	65.3	61.5	63.3	55.7	52.7	552.0
8	24.5	5.3	60.8	55.4	58.8	49.7	46.7	546.7
10	25.0	6.0	59.3	53.3	57.3	47.8	44.8	545.4
16	25.0	7.7	56.3	48.6	54.3	43.7	40.7	543.0
20	25.0	8.6	54.8	46.2	52.8	41.7	38.7	542.0
25	24.3	9.6	53.3	43.7	51.3	39.8	36.8	541.2
31.25	23.6	10.8	51.9	41.1	49.9	37.9	34.9	540.4
62.5	21.5	15.7	47.4	31.7	45.4	31.8	28.8	538.6
100	20.1	20.2	44.3	24.1	42.3	27.8	24.8	537.6
200	18.0	29.8	39.8	10.0	37.8	21.7	18.7	536.5
250	17.3	33.8	38.3	4.6	36.3	19.8	16.8	536.3

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