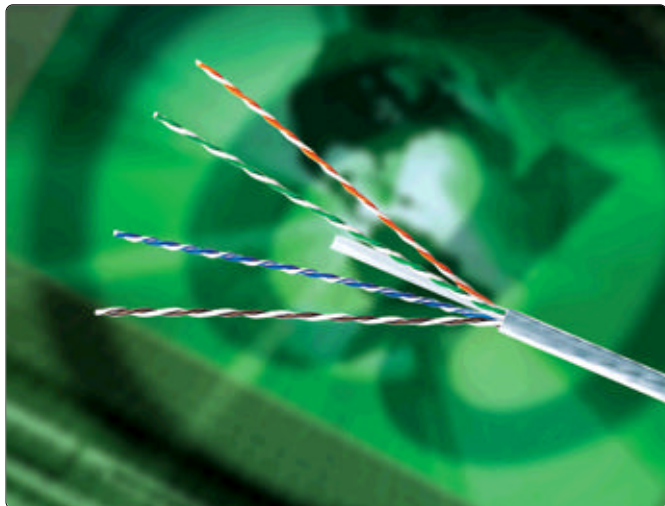


Unshielded Twisted Pair Category 6

Four Pairs



Specification

- ANSI/EIA/TIA-568B
- ISO/IEC 11801
- UL 444
- UL 1581 (CM), UL 1666 (CMR)
- EN 50173, EN 50167 (LSZH)

Application

- High Speed Horizontal Cabling (250MHz)
- 100Mbps TPDDI
- 100 Base T
- ATM 622Mbps, Data rate 4x155.5Mbps
- IEEE 802.3, 802.5
- Digital Video
- Gigabit Ethernet, Data rate 1000Mbps

Type	Insulation Dia. (mm)	Outer Cable Dia. (mm)	Weight (kg/1000ft)	Packaging
CM/CMR	1.0	6.5	11.5	Box
LSZH	1.0	6.5	11.5	Box

Construction (CM/CMR/LSZH)

- Conductor : Annealed Copper 24 AWG
- Insulation : HDPE or LDPE
- Filler : X-Shaped Filler
- Sheath : PVC/FR-PVC/FR-PE

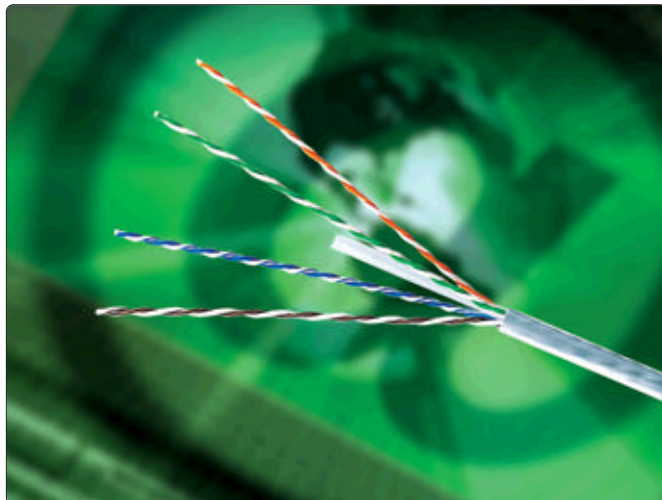
Electrical Characteristics

- DC Resistance (Ω /100m @ 20) : Max. 9.38
- Resistance Unbalance (%) : Max. 5.0
- Mutual Capacitance (nF/100m) : Max. 5.6
- Capacitance Unbalance (pF/100m) : Max. 330

Frequency (MHz)	Input Impedance (Ω)	Characteristic Impedance (Ω)	SRL (Min. dB)	Attenuation (Max. dB/100m)	NEXT (Min. dB/100m)	PSNEXT (Min. dB/100m)	ELFEXT (Min. dB/100m)	PSELFEXT (Min. dB/100m)	ACR (Min. dB/100m)
1	100 $\pm$ 15	100 $\pm$ 6	19.0	2.0	74.3	72.3	67.8	64.8	72.3
4	100 $\pm$ 15	100 $\pm$ 6	21.4	3.8	65.4	63.3	55.7	52.7	61.5
8	100 $\pm$ 15	100 $\pm$ 6	22.6	5.4	60.8	58.8	49.7	46.7	55.4
10	100 $\pm$ 15	100 $\pm$ 6	23.0	6.0	59.3	57.3	47.8	44.8	53.3
16	100 $\pm$ 15	100 $\pm$ 6	23.0	7.7	56.3	54.3	43.7	40.7	48.6
20	100 $\pm$ 15	100 $\pm$ 6	23.0	8.6	54.8	52.8	41.7	38.7	46.2
25	100 $\pm$ 15	100 $\pm$ 6	22.3	9.6	53.3	51.3	39.8	36.8	43.7
31.25	100 $\pm$ 15	100 $\pm$ 6	21.6	10.8	51.9	49.9	37.9	34.9	41.1
62.5	100 $\pm$ 15	100 $\pm$ 6	19.5	15.7	47.4	45.4	31.8	28.8	31.7
100	100 $\pm$ 15	100 $\pm$ 6	18.1	20.2	44.3	42.3	27.8	24.8	24.1
125	100 $\pm$ 22	100 $\pm$ 6	17.4	22.9	42.9	40.9	25.8	22.8	20.0
155.52	100 $\pm$ 22	100 $\pm$ 6	16.8	25.8	41.4	39.4	23.9	20.9	15.6
175	100 $\pm$ 22	100 $\pm$ 6	16.4	27.6	40.7	38.7	22.9	19.9	13.1
200	100 $\pm$ 22	100 $\pm$ 6	16.0	29.8	39.8	37.8	21.7	18.7	10.0
250	100 $\pm$ 22	100 $\pm$ 6	15.3	33.8	38.3	36.3	19.8	16.8	4.5

Unshielded Twisted Pair Category 6

Premium Four Pairs



Specification

- ANSI/EIA/TIA-568B
- ISO/IEC 11801
- UL 444
- UL 1581 (CM), UL 1666 (CMR)
- EN 50173, EN 50167 (LSZH)

Application

- High Speed Horizontal Cabling (400MHz)
- 100Mbps TPDDI
- 100 Base T
- ATM 622Mbps, Data rate 4x155.5Mbps
- IEEE 802.3, 802.5
- Digital Video
- Gigabit Ethernet, Data rate 1000Mbps

Type	Insulation Dia. (mm)	Outer Cable Dia. (mm)	Weight (kg/1000ft)	Packaging
CM/CMR	1.0	6.8	12.0	Box
LSZH	1.0	6.8	12.0	Box

Construction (CM/CMR/LSZH)

- Conductor : Annealed Copper 24 AWG
- Insulation : HDPE or LDPE
- Filler : X-Shaped Filler
- Sheath : PVC/FR-PVC/FR-PE

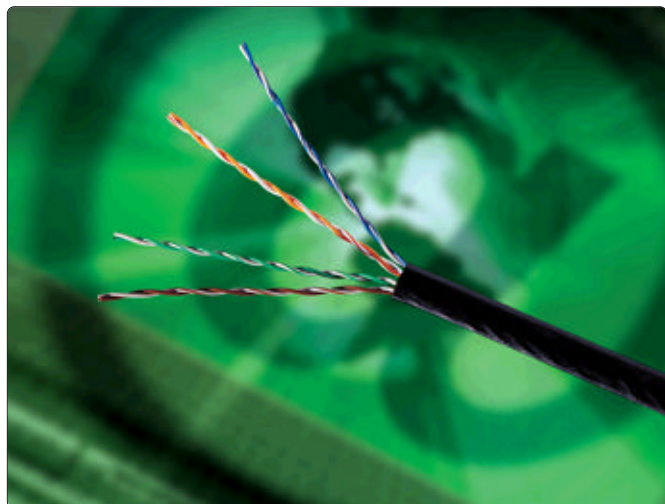
Electrical Characteristics

- DC Resistance ($\Omega/100m$ @ 20) : Max. 9.38
- Resistance Unbalance (%) : Max. 5.0
- Mutual Capacitance (nF/100m) : Max. 5.6
- Capacitance Unbalance (pF/100m) : Max. 330

Frequency (MHz)	Input Impedance (Ω)	Characteristic Impedance (Ω)	RL (Min. dB)	Attenuation (Max. dB/100m)	NEXT (Min. dB/100m)	PSNEXT (Min. dB/100m)	ELFEXT (Min. dB/100m)	PSELFEXT (Min. dB/100m)	ACR (Min. dB/100m)
1	100 $\pm$ 15	100 $\pm$ 6	20.0	2.0	74.3	72.3	67.8	64.8	72.3
4	100 $\pm$ 15	100 $\pm$ 6	23.0	3.8	65.4	63.3	55.7	52.7	61.5
8	100 $\pm$ 15	100 $\pm$ 6	24.5	5.4	60.8	58.8	49.7	46.7	55.4
10	100 $\pm$ 15	100 $\pm$ 6	25.0	6.0	59.3	57.3	47.8	44.8	53.3
16	100 $\pm$ 15	100 $\pm$ 6	25.0	7.7	56.3	54.3	43.7	40.7	48.6
20	100 $\pm$ 15	100 $\pm$ 6	25.0	8.6	54.8	52.8	41.7	38.7	46.2
25	100 $\pm$ 15	100 $\pm$ 6	24.3	9.6	53.3	51.3	39.8	36.8	43.7
31.25	100 $\pm$ 15	100 $\pm$ 6	23.6	10.8	51.9	49.9	37.9	34.9	41.1
62.5	100 $\pm$ 15	100 $\pm$ 6	21.5	15.7	47.4	45.4	31.8	28.8	31.7
100	100 $\pm$ 15	100 $\pm$ 6	20.1	20.2	44.3	42.3	27.8	24.8	24.1
200	100 $\pm$ 22	100 $\pm$ 6	18.0	29.8	39.8	37.8	21.7	18.7	10.0
250	100 $\pm$ 32	100 $\pm$ 6	17.3	33.8	38.3	36.3	19.8	16.8	4.5
300	100 $\pm$ 32	100 $\pm$ 6	16.8	36.6	37.2	35.2	18.2	15.2	-
350	100 $\pm$ 32	100 $\pm$ 6	16.3	40.0	36.2	34.2	16.9	13.9	-
400	100 $\pm$ 32	100 $\pm$ 6	15.9	43.2	35.3	35.3	15.7	12.7	-

Unshielded Twisted Pair Category 6

Under Carpet Four Pairs



Specification

- ANSI/EIA/TIA-568B
- ISO/IEC 11801
- UL 444
- UL 1581 (CM), UL 1666 (CMR)
- EN 50173, EN 50167 (LSZH)

Application

- High Speed Horizontal Cabling (250MHz)
- 100Mbps TPDDI
- 100 Base T
- ATM 622Mbps, Data rate 4x155.5Mbps
- IEEE 802.3, 802.5
- Digital Video
- Gigabit Ethernet, Data rate 1000Mbps

Type	Insulation Dia. (mm)	Outer Cable Dia.(Approx. mm)		Weight (kg/1000ft)	Packaging
		Width	Height		
CM/CMR	1.0	10.5	4	11.5	Box or Reel
LSZH	1.0	10.5	4	11.5	Box or Reel

Construction (CM/CMR/LSZH)

- Conductor : Annealed Copper 24 AWG
- Insulation : HDPE or LDPE
- Sheath : PVC/FR-PVC/FR-PE

Electrical Characteristics

- DC Resistance (Ω /100m @ 20) : Max. 9.38
- Resistance Unbalance (%) : Max. 5.0
- Mutual Capacitance (nF/100m) : Max. 5.6
- Capacitance Unbalance (pF/100m) : Max. 330

Frequency (MHz)	Input Impedance (Ω)	Characteristic Impedance (Ω)	SRL (Min. dB)	Attenuation (Max. dB/100m)	NEXT (Min. dB/100m)	PSNEXT (Min. dB/100m)	ELFEXT (Min. dB/100m)	PSELFEXT (Min. dB/100m)	ACR (Min. dB/100m)
1	100 ± 15	100 ± 6	19.0	2.0	74.3	72.3	67.8	64.8	72.3
4	100 ± 15	100 ± 6	21.4	3.8	65.4	63.3	55.7	52.7	61.5
8	100 ± 15	100 ± 6	22.6	5.4	60.8	58.8	49.7	46.7	55.4
10	100 ± 15	100 ± 6	23.0	6.0	59.3	57.3	47.8	44.8	53.3
16	100 ± 15	100 ± 6	23.0	7.7	56.3	54.3	43.7	40.7	48.6
20	100 ± 15	100 ± 6	23.0	8.6	54.8	52.8	41.7	38.7	46.2
25	100 ± 15	100 ± 6	22.3	9.6	53.3	51.3	39.8	36.8	43.7
31.25	100 ± 15	100 ± 6	21.6	10.8	51.9	49.9	37.9	34.9	41.1
62.5	100 ± 15	100 ± 6	19.5	15.7	47.4	45.4	31.8	28.8	31.7
100	100 ± 15	100 ± 6	18.1	20.2	44.3	42.3	27.8	24.8	24.1
125	100 ± 22	100 ± 6	17.4	22.9	42.9	40.9	25.8	22.8	20.0
155.52	100 ± 22	100 ± 6	16.8	25.8	41.4	39.4	23.9	20.9	15.6
175	100 ± 22	100 ± 6	16.4	27.6	40.7	38.7	22.9	19.9	13.1
200	100 ± 22	100 ± 6	16.0	29.8	39.8	37.8	21.7	18.7	10.0
250	100 ± 22	100 ± 6	15.3	33.8	38.3	36.3	19.8	16.8	4.5