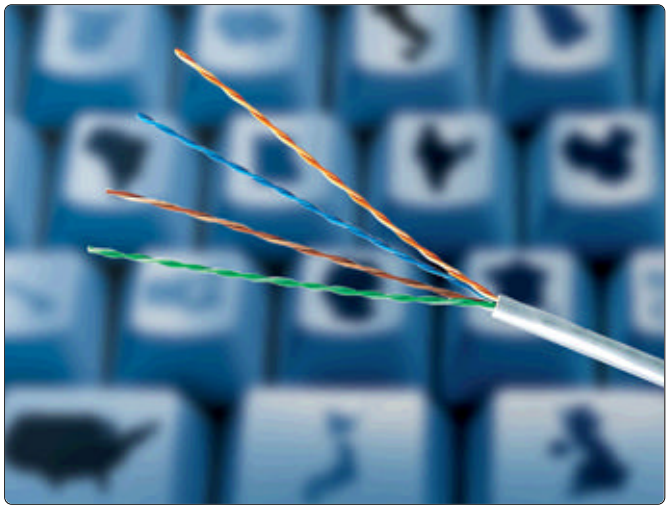
Unshielded Twisted Pair Enhanced Category 5

Four Pairs



Specification

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

Application

- Horizontal Distribution and Backbone Cabling (100MHz)
- 155Mbps ATM
- IEEE 802.3, 802.5
- Token Ring 16Mbps, Data rate 16Mbps
- 100 Base-VG, -T4, -X etc.

Type	Insulation Dia. (mm)	Outer Cable Dia. (mm)	Weight (kg/1000ft)	Packaging
CM/CMR	0.90	5.5	10	Box
LSZH	0.90	5.5	10	Box

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. 5.5
- Capacitance Unbalance (pF/100m) : Max. 330

Frequency (MHz)	Characteristic Impedance (Ω)	SRL (Min. dB)	Attenuation (Max. dB/100m)	NEXT (Min. dB/100m)	ELFEXT (Min. dB/100m)
0.772	-	-	1.8	67.0	66.0
1	100±15	23	2.0	65.3	63.8
4	100±15	23	4.1	56.3	51.7
8	100±15	23	5.8	51.8	45.7
10	100±15	23	6.5	50.3	43.8
16	100±15	23	8.2	47.3	39.7
20	100±15	23	9.3	45.8	37.7
25	100±15	22	10.4	44.3	35.8
31.25	100±15	21	11.7	42.9	33.9
62.5	100±15	18	17.0	38.4	27.8
100	100±15	16	22.0	35.3	23.8

Unshielded Twisted Pair Enhanced Category 5

Premium Four Pairs

Specification

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

Application

- Horizontal Distribution and Backbone Cabling (350MHz)
- 155Mbps ATM
- IEEE 802.3, 802.5
- Token Ring 16Mbps, Data rate 16Mbps
- 100 Base-VG, -T4, -X etc.

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
- Sheath : PVC/FR-PVC/FR-PE

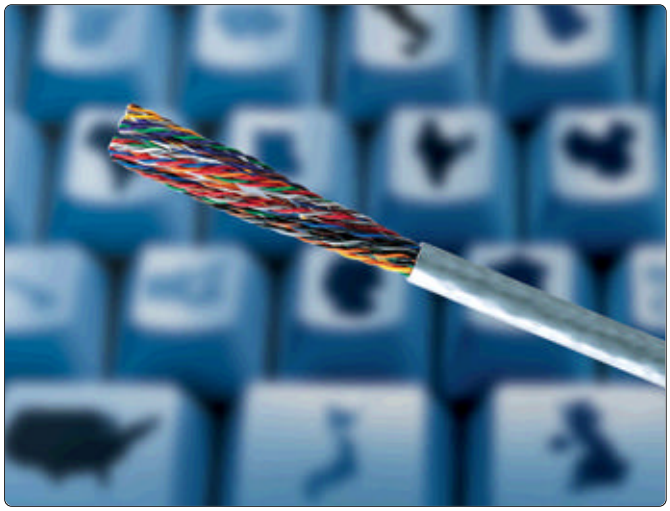
Electrical Characteristics

- DC Resistance (Ω/100m @ 20℃) : Max. 8.9
- Resistance Unbalance (%) : Max. 3.0
- 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)
0.772	100±15	100±15	-	1.8	72	70	66	63
1	100±15	100±15	24.5	2.0	70	68	64	61
4	100±15	100±15	24.5	4.1	61	59	52	49
8	100±15	100±15	24.5	5.8	56	54	46	43
10	100±15	100±15	24.5	6.5	55	53	44	41
16	100±15	100±15	24.5	8.2	52	50	40	37
20	100±15	100±15	24.5	9.3	50	48	38	35
25	100±15	100±15	24.0	10.4	49	47	36	33
31.25	100±15	100±15	23.5	11.7	47	45	34	31
62.5	100±15	100±15	22.0	17.0	43	41	28	25
100	100±15	100±15	21.0	22.0	40	38	24	21
155.52	100±22	100±15	20.1	28.1	37	35	20	17
200	100±22	100±15	19.5	32.4	35	33	18	15
250	100±22	100±15	19.0	36.9	34	32	16	13
300	100±22	100±15	18.6	41.0	33	31	14	11
350	100±22	100±15	18.3	44.9	32	30	13	10

Unshielded Twisted Pair Enhanced Category 5

Twenty-Five Pairs



Specification

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

Application

- Horizontal Distribution and Backbone Cabling (100MHz)
- 155Mbps ATM
- IEEE 802.3, 802.5
- Token Ring 16Mbps, Data rate 16Mbps
- 100 Base-TX Ethernet, Data rate 100Mbps

Type	Insulation Dia. (mm)	Outer Cable Dia. (mm)	Weight (kg/1000m)	Packaging
CM/CMR	0.98	12.0	200	Drum

Construction (CM/CMR)

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

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)	Characteristic Impedance (Ω)	SRL (Min. dB)	Attenuation (Max. dB/100m)	NEXT (Min. dB/100m)	PSNEXT (Min. dB/100m)	FEXT (Min. dB/100m)	PSELFEXT (Min. dB/100m)
0.772	-	-	1.8	67.0	64.0	66.0	-
1	100±15	23.0	2.0	65.3	62.3	63.8	60.8
4	100±15	23.0	4.1	56.3	53.3	51.7	48.7
8	100±15	23.0	5.8	51.8	48.8	45.7	42.7
10	100±15	23.0	6.5	50.3	47.3	43.8	40.8
16	100±15	23.0	8.2	47.3	44.4	39.7	36.7
20	100±15	23.0	9.3	45.8	42.8	37.7	34.7
25	100±15	22.0	10.4	44.3	41.3	35.8	32.8
31.25	100±15	21.1	11.7	42.9	39.9	33.9	30.9
62.5	100±15	18.1	17.0	36.4	35.4	27.8	24.6
100	100±15	16.0	22.0	35.3	32.3	23.8	20.8