



Category 6

Installation Cable

23-AWG UTP, CM Rated

Applications

- Installation cable within structured cabling systems according to ISO 11801 and TIA/EIA 568-B.
- To be used in pathwaysystems

Compliances

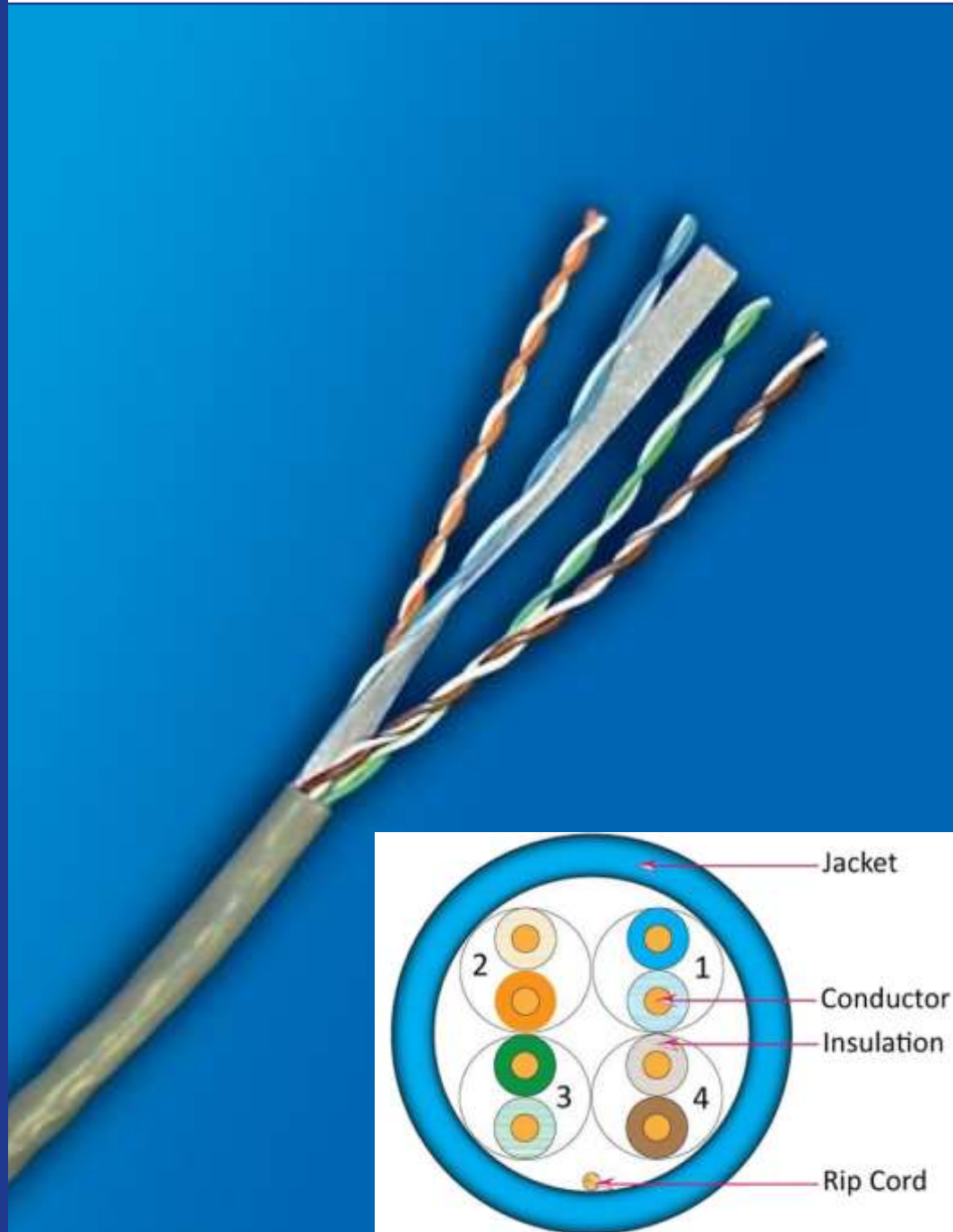
- UL Subject 444
- (UL)-C(UL) Type MP/CM
- ICEA S-90-661
- NEC 800 Type CM
- TIA/EIA 568-B.2-1 Proposed Cat-6 Horizontal Cable Requirements, Draft 10
- ISO 11801 Class E
- NEMA WC 66-1999

Possible Services

- POTS
- T1 & T1 Fractional
- ISDN Basic & Primary Rate
- 4/16 Mbps Token Ring (IEEE 802.5)
- 10BASE-T (IEEE 802.3)
- 1000 Mbps TP-PMD
- 52/155 Mbps ATM (ATM Forum)
- 1000BASE-T4 (Fast Ethernet)
- 1000VG-AnyLAN (IEEE 802.12)
- 1000BASE-T (Giga Ethernet)
- 622 Mbps ATM (ATM Forum)
- 1 Gbps Networking System (WGNA)
- 1 Gbps Ethernet (IEEE 802.3)
- 1.2 Gbps ATM (ATM Forum)
- 77 Channel Broadband Video

Features

- More flexible separator, optimum pair-to-pair & powersum crosstalk
- Matched impedance and maximum throughput
- Ease of handling
- Smaller, more compact package
- Decreased installation time



Physical Construction

Electrical Characteristics

Conductor:	CCA	1.0 - 250MHz Impedance:	100Ω ± 15
Conductor Size:	23 AWG	1.0 - 250MHz Delay Skew:	≤ 600 (ns/100m)
Insulation:	HDPE	Resistance Unbalance:	5.0%
Insulation Diameter:	0.95mm ± 0.03mm	Max DC Resistance:	9.5 (Ω/100m)
Outer Diameter:	6.2mm OR Less		
Jacket:	PVC		
Rip Cord:	Yes		

Electrical Characteristics

FREQ (MHz)	IMPEDANCE Ohms Characteristic	Input	ATTENUATION dB (Max)	RETURN LOSS dB (Min)	ATTENUATION Pair-to-Pair dB/100m (Min)	- TO - NEXT RATIO Power Sum dB/100m (Min)
1	100 +/-6	100 +/-15	2.0	20.0	73.3	70.3
4	100 +/-6	100 +/-15	3.8	23.0	62.5	59.5
8	100 +/-6	100 +/-15	5.3	24.5	56.5	53.5
10	100 +/-6	100 +/-15	6.0	25.0	54.3	51.4
16	100 +/-5	100 +/-15	7.6	25.0	49.7	46.8
20	100 +/- 5	100 +/-15	8.5	25.0	47.3	44.3
25	100 +/- 4	100 +/-15	9.5	24.3	44.8	41.8
31.25	100 +/-4	100 +/-15	10.7	23.6	42.2	39.2
62.5	100 +/-3	100 +/-15	15.4	21.5	33.0	30.0
100	100 +/-3	100 +/-15	19.8	20.1	25.5	22.5
200	100 +/-3	100 +/-22	29.0	18.0	11.8	8.9
250	100 +/-3	100 +/-32	32.8	17.3	6.5	3.5

FREQ (MHz)	NEXT		ELFEXT	
	Pair-to-Pair dB/100m (Min)	Power Sum dB/100m (Min)	Pair-to-Pair dB/100m (Min)	Power Sum dB/100m (Min)
1	74.3	72.3	67.8	64.8
4	65.3	63.3	55.8	52.8
8	60.8	58.8	49.7	46.7
10	59.3	57.3	47.8	44.8
16	56.2	54.2	43.7	40.7
20	54.8	52.8	41.8	38.8
25	53.3	51.3	39.8	36.8
31.25	51.9	49.9	37.9	34.9
62.5	47.4	45.4	31.9	28.9
100	44.3	42.3	27.8	24.8
200	39.8	37.8	21.8	18.8
250	38.3	36.3	19.8	16.8

NOTE: The above listed discrete frequency electrical performance values are provided for engineering information only. Actual compliance testing is based on swept frequency measurements.

Ordering Information

Product Number	No. of Pairs	Diameter		Jacket color	Weight		Packaging
		inches	mm		lbs/kft	kg/km	
M6U-23XX/305	4	.22	5.6	As specified	25	37.2	1,000' Reel

NOTES: XX = Jacket color BL= Blue WT= White GY= Gray GN= Green YL= Yellow

