

## PRODUCT PART NUMBER

## PRODUCT DESCRIPTION

➤ EU23-C6-O-XX

- U/UTP, 23AWG solid bare copper, CAT.6,
- CMX Outdoor-CMR-LP
- With rip cord and cross filler

## PRODUCT FEATURES

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 600 MHz
- Reellex II carton and easy to pull out.
- Carton with one layer corrugated design providing sufficient strength and saving packaging space.

## APPLICATION

- Structure cabling for horizontal and building backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3ab 1000BASE-T, 1000BASE-TX and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+) / IEEE 802.3bt (PoE++)

## USAGE & ENVIRONMENTAL CONDITION

Temperature range	Storage & shipping	-20°C to 90°C
	Installation	0°C to 60°C
	Operation	-20°C to 90°C

Minimum bending radius	≥ 4 times of overall diameter
Maximum pulling tension	≤ 110 N

## PHYSICAL & ELECTRICAL CHARACTERISTICS (AT 20°C)

Voltage	300V
Spark test	2.5 KV DC
AC leakage current through overall jacket	≤ 10mA (1.5KV AC)
Cable cold bend	-20°C for 4 hr
Conductor DC resistance	≤ 9.38 Ω/100m
Resistance unbalance	≤ 5%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ·km
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 330 pF/100m

## TRANSMISSION PERFORMANCE (AT 20°C)

Frequency (MHz)	IL	NEXT +5dB	PS.NEXT	ACR +5dB	PS.ACR	ACRF	PS.ACRF	RL	Propagation Delay	Delay Skew
	Max. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Max. ns/100m	Max. ns/100m
1	2.03	79.30	72.30	77.28	70.28	67.80	64.80	20.00	570.00	
4	3.78	70.27	63.27	66.49	59.49	55.76	52.76	23.01	552.00	
8	5.32	65.75	58.75	60.43	53.43	49.74	46.74	24.52	546.73	
10	5.95	64.30	57.30	58.35	51.35	47.80	44.80	25.00	545.38	
16	7.55	61.24	54.24	53.68	46.68	43.72	40.72	25.00	543.00	
20	8.47	59.78	52.78	51.31	44.31	41.78	38.78	25.00	542.05	
25	9.51	58.33	51.33	48.83	41.83	39.84	36.84	24.32	541.20	
31.25	10.67	56.88	49.88	46.20	39.20	37.90	34.90	23.64	540.44	
62.5	15.38	52.36	45.36	36.98	29.98	31.88	28.88	21.54	538.55	
100	19.80	49.30	42.30	29.50	22.50	27.80	24.80	20.11	537.60	
150	24.71	46.66	39.66	21.95	14.95	24.28	21.28	18.87	536.94	45.00
200	28.98	44.78	37.78	15.80	8.80	21.78	18.78	18.00	536.55	
250	32.85	43.33	36.33	10.48	3.48	19.84	16.84	17.32	536.28	
300	36.43	42.14	35.14	5.72	N.A.	18.26	15.26	16.77	536.08	
350	39.79	41.14	34.14	1.35	N.A.	16.92	13.92	16.30	535.92	
400	42.97	40.27	33.27	N.A.	N.A.	15.76	12.76	15.89	535.80	
450	46.01	39.50	32.50	N.A.	N.A.	14.74	11.74	15.53	535.70	
500	48.94	38.82	31.82	N.A.	N.A.	13.82	10.82	15.21	535.61	
550	51.76	38.19	31.19	N.A.	N.A.	12.99	9.99	14.92	535.54	
600	54.49	37.63	30.63	N.A.	N.A.	12.24	9.24	14.66	535.47	

Values above 250MHz are for information only.

## MATERIAL AND CONSTRUCTION

Conductor	Material	23AWG solid bare copper
Insulation	Material	Fluorinated Ethylene Propylene (FEP)
	Color code & diameter	Blue & white/blue Stripe 0.97 ± 0.02 mm
		Orange & white/orange stripe 0.93 ± 0.02 mm
		Green & white/green stripe 0.96 ± 0.02 mm
		Brown & white/brown stripe 0.93 ± 0.02 mm
Twisted	Description	Left hand direction
Filler	Material	Polyolefin (PO)
Assembly	Description	Left hand direction
Rip cord	Material	Polyester multi-yarn
Jacket	Material	Flame retardant polyvinyl chloride (FRPVC)
	Diameter	6.0 ± 0.2 mm
	Thickness	0.55 ± 0.05 mm
	Color	Per customer's request
Marking	ELITECABLEPRODUCTS.COM CAT6 UTP 23AWG 600MHz 4PR E142890 90 C(UL)US CMX Outdoor-CMR-LP(0.5A) UV RESISTANT---ETL VERIFIED TO TIA-568.2-D DATA CAMERA PHONE OTHER MMDDYY XXXXFT NOTE 1: mmyy is date code.	

## APPLICABLE STANDARD

- **Electrical Transmission**
  - ◆ ANSI/TIA-568.2-D (2018)
  - ◆ ISO/IEC 11801-1
  - ◆ IEC 61156-5 (Edition 2.1)
- **Flame Test**
  - ◆ UL 2556 (CMX)
  - ◆ UL 1666 (CMR)
- **Material and Construction**
  - ◆ UL 444
  - ◆ UL 444 LP-Rating 0.5A
  - ◆ CSA 22.2 NO.214

- EU Directive 2011/65/EU & 2015/863/EU
- EU Directive 2006/95/EC (LVD)

## SECTIONAL DRAWING

