

PRODUCT PART NUMBER

• LUR3C6CXXX

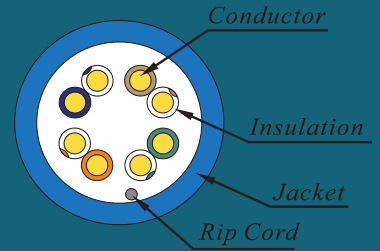
PRODUCT DESCRIPTION

- CAT6, 23AWG, UTP, CMR, Solid Copper
- With rip cord
- No Spline - Quicker Termination
- Increased insulation-Reduced Crosstalk

APPLICABLE STANDARD

- **Electrical Transmission**
 - ANSI/TIA-568.2-D (2018)
 - ISO/IEC 11801-1
 - IEC 61156-5 (Edition 2.1)

SECTIONAL DRAWING



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+)

USAGE & ENVIRONMENTAL CONDITION

Temperature range	Storage & shipping	-20°C to 75°C
	Installation	0°C to 60°C
	Operation	-20°C to 60°C

Minimum bending radius	≥ 4 times of overall diameter
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Maximum pulling tension	≤ 110 N
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PHYSICAL & ELECTRICAL CHARACTERISTICS (AT 20°C)

Temperature rating	75°C
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	15 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ·km
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 330 pF/100m

PRODUCT FEATURES

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 550 MHz
- Reelex II carton and easy to pull out.
- Carton with one-layer corrugated design providing sufficient strength and saving packaging space.

Electrical Transmission

- UL 1666 (CMR)

Material and Construction

- UL 444
- CSA 22.2 NO.214

EU Directive 2011/65/EU & 2015/863/EU

EU Directive 2006/95/EC (LVD)

MATERIAL AND CONSTRUCTION

Conductor	Material	23AWG solid bare copper	
Insulation	Material	Polyolefin (PO)	
	Color code & diameter	Blue & white/blue Stripe	1.03 ± 0.02 mm
	Orange & white/orange stripe	0.97 ± 0.02 mm	
	Green & white/green stripe	1.01 ± 0.02 mm	
	Brown & white/brown stripe	0.97 ± 0.02 mm	
Twisted	Description	Left hand direction	
Assembly	Description	Left hand direction	
Rip cord	Material	Polyester multi-yarn	
Jacket	Material	Flame retardant polyvinyl chloride (FRPVC)	
	Diameter	5.4 ± 0.2 mm	
	Thickness	0.50 ± 0.05 mm	
	Color	Per customer's request	
Marking	DGNETWORKSOLUTIONS.COM UTP CAT 6 550MHz CMR75C 23AWG 4PR C(ETL)US LISTED 3183926-777 DATA PHONE CAMERA ROOM: BR1 BR2 BR3 BR4 BR5 LR DR KIT GYM OF OTHER XXXXFT		

TRANSMISSION PERFORMANCE (AT 20°C)

Frequency (MHz)	IL	NEXT	PS.NEXT	ACR	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	74.30	72.30	72.28	70.28	67.80	64.80	20.00	570.00	45.00
4	3.78	65.27	63.27	61.49	59.49	55.76	52.76	23.01	552.00	
8	5.32	60.75	58.75	55.43	53.43	49.74	46.74	24.52	546.73	
10	5.95	59.30	57.30	53.35	51.35	47.80	44.80	25.00	545.38	
100	19.80	44.30	42.30	24.50	22.50	27.80	24.80	20.11	537.60	
250	32.85	38.33	36.33	5.48	3.48	19.84	16.84	17.32	536.28	
550	51.76	33.19	31.19	N.A.	N.A.	12.99	9.99	14.92	535.54	

Values above 250MHz are for information only.

