

**LP-C6023BLB LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CMR-rated with Solid 100% Copper Conductors AWG 23 and blue jacket in 1000 ft (305m) REELEX II® Easy Pull-Box**

**Features**

- Very Flexible.
- Superior performance to traditional designs.
- 568-A and 568-B compatible.
- Exceeds ANSI/TIA-568-C.2, ISO/IEC 11801, UL 1666.
- Vertical-Tray, CSA FT1 requirements.
- Rugged Construction.
- RipCord included.
- Backward compatible with CAT 5e and CAT 5 systems.
- Excellent price/performance ratio.
- Blue color jacket.
- Four (4) AWG 23 Twisted Pairs.
- Flame rating: CMR thermoplastic cover Jacket with a thickness of 0.023in.
- Reliable 6® is a robust product.
- Packaged in one convenient presentation: 1000 feet (305m) in a REELEX II® easy-pull Box.
- Operating voltage: <48 Vrms.



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Tested to well over 550 MHz, the guaranteed performance of this cable meets the ANSI/TIA-568-C.2-1, ISO/IEC 11801, UL 444, and UL 1666 requirements, ETL listed, making it ideal for transmission links supporting today's networking protocols.

**A Applications**

CMR rated Category 6 U/UTP cable is intended for high speed data applications, including Gigabit Ethernet, 100BASE-Tx, token-ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (Broadband, Baseband), digital video and Voice over IP(VoIP), it can also be used for Video surveillance IP cameras and 100BASE-TX and 4/16 Mb/s Token Ring, suitable to be used in riser installations which rise between floors. Riser cables may also penetrate other fire rated walls or floors.

**IMPORTANT NOTE:**

LanPro CAT 6 CMR Reliable® Cable is intended for use in riser applications whose main duty in case of fire is to avoid its propagation among building floors. The chemicals used to produce such stopping of fire propagation need substances that have high quantities of halides.

When taking fire, CMR cables generate fumes that contain these halides which react with water present in the environment and producing hydrochloric acid, a very irritant mist that produces suffocation when inhaled. LanPro recommends caution on the use of CMR in public places.

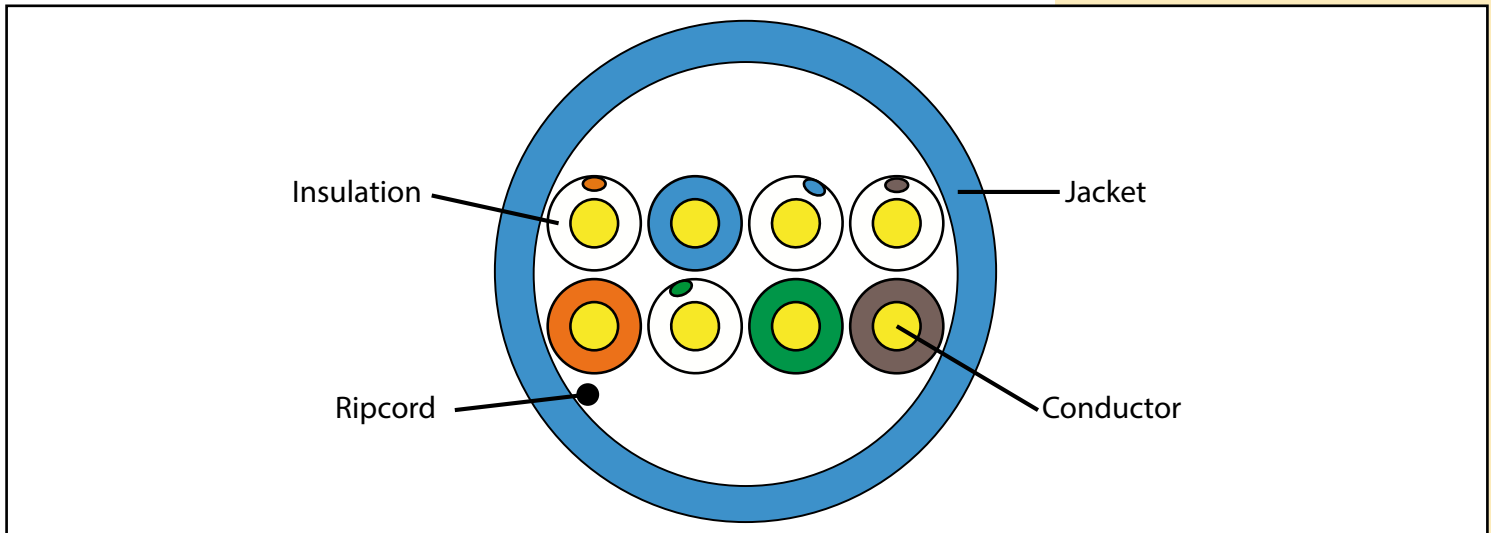
**B Technical Specifications**

<b>Standards</b>	ISO/IEC11801, TIA/EIA 568.C-2, UL 1666			
<b>Conductor</b>	Material	Cooper 100%		
	AWG #	23	Positive tolerance	+0.005
	Nominal Diameter (in)	0.205	Negative tolerance	-0.005
<b>Isolation layer</b>	Material	HDPE (High Density Polyethylene)		
	Diameter (in)	0.037±0.003		
	Color	A - Blue, White-Blue		
		B - Orange, White-Orange		
C - Green, White-Green				
D - Brown, White-Brown				
<b>Rip Cord</b>	Yes			
<b>Drain wire</b>	None			
<b>Jacket</b>	Thickness	0.0088±0.005 in		
	External diameter (O.D.)	0.205±0.004 in		
	Surface finish	Clean, FRAP, Satinized		
	Material	CMR Rated, complies RoHS		
	Color	Blue		
<b>Physical properties</b>	Temperature Range	-20°C a 75°C		
<b>Mechanical characteristics</b>	Tensile strength before Aging (Mpa)	≥13.5		
	Elongation before aging (%)	≥150		
	Aging Period (°C x hours)	100°C x 24 h x 7d		
	Tensile strength after Aging (Mpa)	≥12.5		
	Elongation after aging (%)	≥125		
	Cold Bend (-20±2°Cx4h)	No visible cracks		
	Bending Radius	8x external Dia. during install		
4x external Dia. afterwards				
<b>Electrical Properties (20°C)</b>	Zo (1.0 – 250.0 MHz)	100 ±15 Ohm		
	Delay skew @20°C (1.0 – 550.0 MHz)	≤ 45 ns/100m		
	Maximum DC Resistance @ (20°C)	9.5 Ohm/100 m		
	% Resistance unbalance between conductors (Max)	5 %		

**C Certification Characteristics**

Freq. (MHz)	RL ≥ dB	ATT ≤ dB	NEXT ≥ dB	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB
1	20.0	2.0	77.3	75.3	70.8	67.8
4	23.6	3.8	68.3	66.3	58.7	55.7
8	25.4	5.3	63.8	61.8	52.7	49.7
10	26.0	5.9	62.3	30.3	50.8	47.8
16	26.0	7.4	59.3	57.3	46.7	43.7
20	25.5	8.3	57.8	55.8	44.7	41.7
25	25.0	9.3	56.3	54.3	42.8	39.8
31.25	25.0	10.4	54.9	52.9	40.9	37.9
62.5	23.5	14.9	50.4	48.4	34.8	31.8
100	22.5	19.0	47.3	45.3	30.8	27.8
155	21.6	23.9	45.8	43.5	27.0	23.6
200	21.0	27.4	42.8	40.8	24.7	21.7
250	20.5	30.8	41.3	39.3	22.8	19.8
300	20.1	34.0	40.2	38.2	21.2	18.2
350	19.8	37.0	39.2	37.2	19.9	16.9
400	19.5	39.7	38.3	36.3	18.7	15.7
450	19.2	42.1	37.5	35.5	42.1	19.2
500	19.0	44.9	36.8	34.8	44.9	19.0
550	18.8	47.3	36.2	34.2	47.3	18.8

**D Structure**



**E How to order**

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*Lanpro is continuously improving its products and reserves the right to change specifications and availability without prior notice.*