LP-C6000BLB LanPro Reliable® CAT 6 Cable type U/UTP Network Cable, CMX-rated with Solid Copper Conductors and Flexible-X™ separator for symmetry and Blue jacket in 1000 ft (305 m) Easy-Pull Box.

LPC6000BLB_SS_ENB02W

Features

- ETL verified to TIA/EIA 568B CAT 6.

- Very Flexible.

- Superior performance to traditional designs.

- 568-A and 568-B compatible.

- Exceeds ANSI/TIA-568-C.2, ISO/IEC 11801, UL VW-1 requirements.

- Rugged Construction.

- Backward compatible with CAT 5e and CAT 5 systems.

- Excellent price/performance ratio.

- Blue color jacket.

- Four (4) 23 AWG Twisted Pairs.

- Flame rating: CMX thermoplastic cover Jacket with a thickness of 0,55 mm.

- Reliable™ CAT 6 is a robust product.

- Packaged in one convenient presentation: 1000 feet (305 m) in a Easy-Pull Box.

- Weight: 28 lb (12.5 Kg).

- The Geometry is better with Flexible-X™ technology.

- Operating voltage: <48 Vrms.

- UL E329019.

- ETL 4003289.

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Unshielded LanPro Reliable® CAT 6 U/UTP Network CMX-rated general purpose Cable is the answer given by LanPro to the demand imposed by today's high performance applications at reasonable prices. Tested to well over 250 MHz, the guaranteed performance of this cable meets the ANSI/TIA-568-C.2, ISO/IEC 11801, UL VW-1 requirements, UL registered E329019, ETL registered 4003289 making it ideal for transmission links supporting today's networking protocols.

A Applications:

Unshielded LanPro Reliable® CAT 6 **LP-C6000BLB** U/UTP Network CMX-rated 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 suveillance IP cameras and 100BASE-TX and 4/16 Mb/s Token Ring.
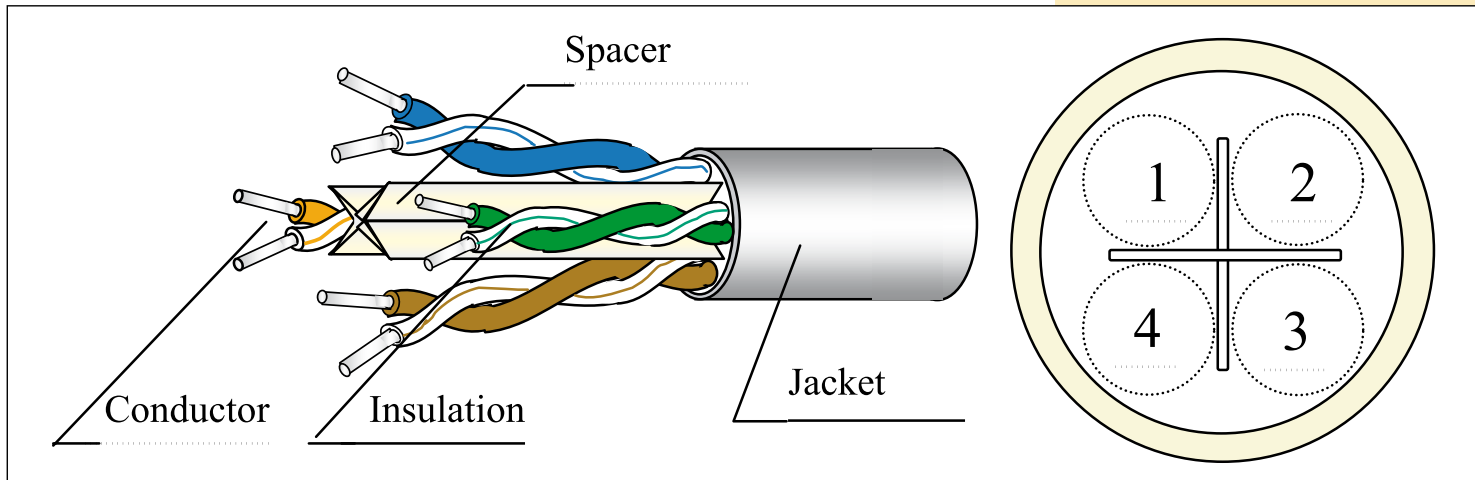
IMPORTANT NOTE:
Unshielded LanPro Reliable® CAT 6 **LP-C6000BLB** U/UTP Network CMX-rated belongs to a class of General Purpose cables, and may be used anywhere in Residential areas or inside conduits in commercial areas. The cables are flame tested and held to a lower standard than either CM, Riser or Plenum cables. The chemicals used to produce such stopping of fire propagation need substances that have high quantities of halides.

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

B   Technical Specifications:

Standards	ISO/IEC11801, TIA/EIA 568.2, EN 50173, ETL approved 4003289, UL approved E329019			
1.- Conductor	Material	Copper 100%		
	AWG #	23		
	Nominal Diameter (mm)	0.565	Positive tolerance	+0.005
			Negative tolerance	-0.005
2.- Isolation layer	Material	HDPE (High Density Polyethylene)		
	Diameter (mm)	1.01 ± 0.02		
	Elongation	Min. 300%		
	Color	A- Blue, White-Blue	B- Orange, White-Orange	
		C- Green, White-Green	D- Brown, White-Brown	
3.- Rip Cord	Yes			
4.- Separator	Flexible –X™			
5.- Drain Wire	None			
6.- Jacket	Thickness	0.55 ± 0.05 mm		
	External Diameter, (O.D.)	6.3 ± 0.3 mm		
	Surface finish	Clean, Satinized		
	Material	CMX, complies RoHS		
	Color	Blue		
7.- Markings	Type height	3.0 ± 0.3 mm		
	Color	White		
	Print error & Space	≤ ± 0.5%, 1 m		
8.- Packaging	Carton (reel in Box) Box, Pallet			
	Product length	305 ± 0.5 m		
	Carton Dimensions	33 x 35 x 26.5 cm		
9.- Physical properties	Temperature Range	-20 ºC to 75 ºC		
10.- Mechanical Characteristics	Tensile strength before Aging (Mpa)	≥13.5		
	Elongation before aging (%)	≥150		
	Aging Period (ºC x hours)	100 ºC x 24 h x 7d		
	Tensile strength after Aging (Mpa)	≥12.5		
	Elongation after aging (%)	≥150		
	Cold Bend (-20 ± 2 ºC x 4h)	No visible cracks		
	Bending Radius	8 x external Dia. during install		
		4 x external Dia. afterwards		
11.- Electrical properties @ 20 ºC	Isolation resistance @500 V	Min 5000 MOhm/Km		
	Zo (1.0 – 250.0 MHz)	100 ± 15 Ohm		
	Delay skew @20 ºC (1.0 – 250.0 MHz)	≤45 (ns/100m)		
	Propagation Velocity (% C)	67%		
	Mutual capacitance	5.1 nF max/100 m		
	Capacitance imbalance	160 nF max/100 m		
	Maximum DC Resistance @ (20 ºC)	9.5 Ω / 100 m		
	Delay [ns/100m] @250 MHz	536 ns		
	% Resistance unbalance between conductors (Max)	5%		
	Maximum Operating RMS AC Voltage	≤48 V		
	Peak Operating Voltage (DC)	≤68 VDC		
	(DC) Test Voltage (1 minute)	1.0 KV/ 1 minute		

C Structure:

Spacer

Conductor   Insulation   Jacket

1 2
4 3

D Certification Characteristics:

Freq. (MHz)	RL >dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	PSNEXT >dB	ELFEXT >dB	PSELFEXT ≥dB
1	20.0	1.9	74.0	570.00	72.3	68.0	65.0
4	23.0	3.7	65.0	552.00	63.3	56.0	53.0
8	24.5	5.3	60.7	546.73	48.8	49.9	46.9
10	25.0	5.9	59.0	545.38	57.3	48.0	45.0
16	25.0	7.5	56.0	543.00	54.2	43.9	40.9
20	25.0	8.4	55.0	542.05	52.8	42.0	39.0
25	24.3	9.5	53.3	541.20	41.3	40.0	37.0
31.25	23.6	10.6	52.0	540.44	49.9	38.1	35.1
62.5	21.5	15.4	47.0	538.55	45.4	32.1	29.1
100	20.1	19.8	44.0	537.60	42.3	28.0	25.0
200	18.0	29.0	40.0	536.54	37.8	22.0	19.0
250	17.3	32.8	38.0	536.27	36.3	20.0	17.0

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.