

**LP-C6000GRB LanPro Reliable® CAT 6 type U/UTP Network Cable, CMX-rated with Solid Copper Conductors and Flexible-X™ separator for symmetry and Gray jacket in 1000 ft (305 m) Easy-Pull Box.**

LPC6000GRB\_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 CAT5e and CAT5 systems.
- Excellent price/performance ratio.
- Gray color jacket.
- Four (4) 23 AWG Twisted Pairs.
- Flame rating: CMX thermoplastic cover Jacket with a thickness of 0,55 mm.
- Reliable™ CAT6 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-C6000GRB** 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 surveillance IP cameras and 100BASE-TX and 4/16 Mb/s Token Ring.

### IMPORTANT NOTE:

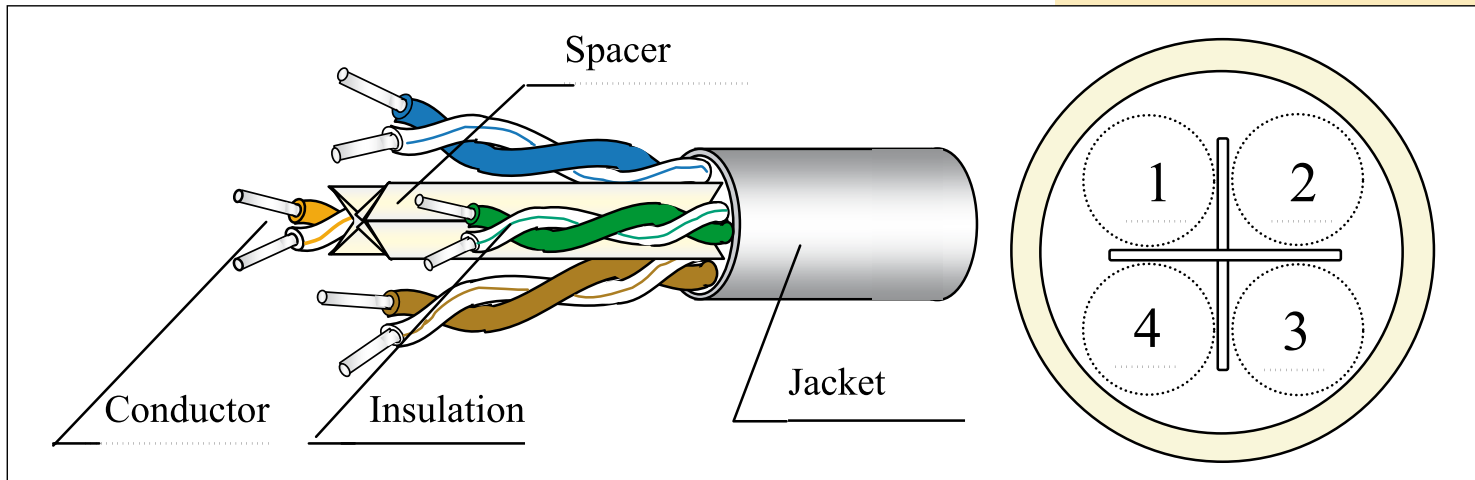
Unshielded LanPro Reliable® CAT 6 **LP-C6000GRB** U/UTP Network CMX-rated belongs to a class of General Purpose cables, and may be used anywhere in Residential areas or inside conduits in commercial areas. The cables are flame tested and held to a lower standard than either CM, Riser or Plenum cables. 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 producing 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
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	Gray	
7.- Markings	Type height	3.0 ± 0.3 mm	
	Color	White	
	Print error &Space	≤ ±0.5%, 1m	
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 °C to 75 °C	
10.- Mechanical Characteristics	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 (%)	≥ 100	
	Cold Bend (-20 ± 2 °C x 4h)	No visible cracks	
	Bending Radius	8 x external Dia. during install,	
4 x external Dia afterwards			
11.- Electrical properties @ 20 °C	Isolation resistance @500 V	Min 5000 MOhm/Km	
	Zo (1.0 – 250.0 MHz)	100 ± 15 Ohm	
	Delay skew @20 °C (1.0 – 250.0 MHz)	≤45 (ns/100m)	
	Propagation Velocity (% C)	67%	
	Mutual capacitance	9.5 Ohm/100 m	
	Capacitance imbalance	536 ns	
	Maximum DC Resistance @ (20 °C)	5 %	
	Delay [ns/100m] @250 MHz	≤ 48	
	% Resistance unbalance between conductors (Max)	≤ 68	
	Maximum Operating RMS AC Voltage	≤ 48	
	Peak Operating Voltage (DC)	≤ 68 V	
	(DC) Test Voltage (1 minute)	1.0 KV/ 1 minute	

**C Structure:**



**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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