

**LP-C6030GRB LanPro Reliable® CAT 6 type U/UTP Network Cable, CMP Plenum-rated with Solid Copper Conductors and Flexible-X™ separator for symmetry and Gray jacket in 1000 ft (305m) Easy-Pull Box.**

LPC6030GRB\_SS\_ENB01W

**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, CSA C22.2 No. 214/UL 444, CSA FT6.
- Rugged Construction.
- Backward compatible with Cat5e and Cat5 systems.
- Excellent price/performance ratio.
- Gray color jacket.
- Four (4) 23 AWG Twisted Pairs.
- Flame rating: CMP FR thermoplastic cover Jacket with a thickness of 0,498mm.
- Reliable 6 is a robust product.
- Packaged in one convenient presentation: 1000 feet (305m) in a Easy-Pull Box.
- Weight: 28lb (12.5Kg).
- 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 CMP-rated (Plenum) 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 Exceeds ANSI/TIA-568-C.2, ISO/IEC 11801, CSA C22.2 No. 214/UL 444, CSA FT6 requirements UL registered E329019 and ETL No. 4003289, making it ideal for transmission links supporting today's networking protocols.

**A Applications**

Unshielded LanPro Reliable® CAT 6 U/UTP Network CM-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.

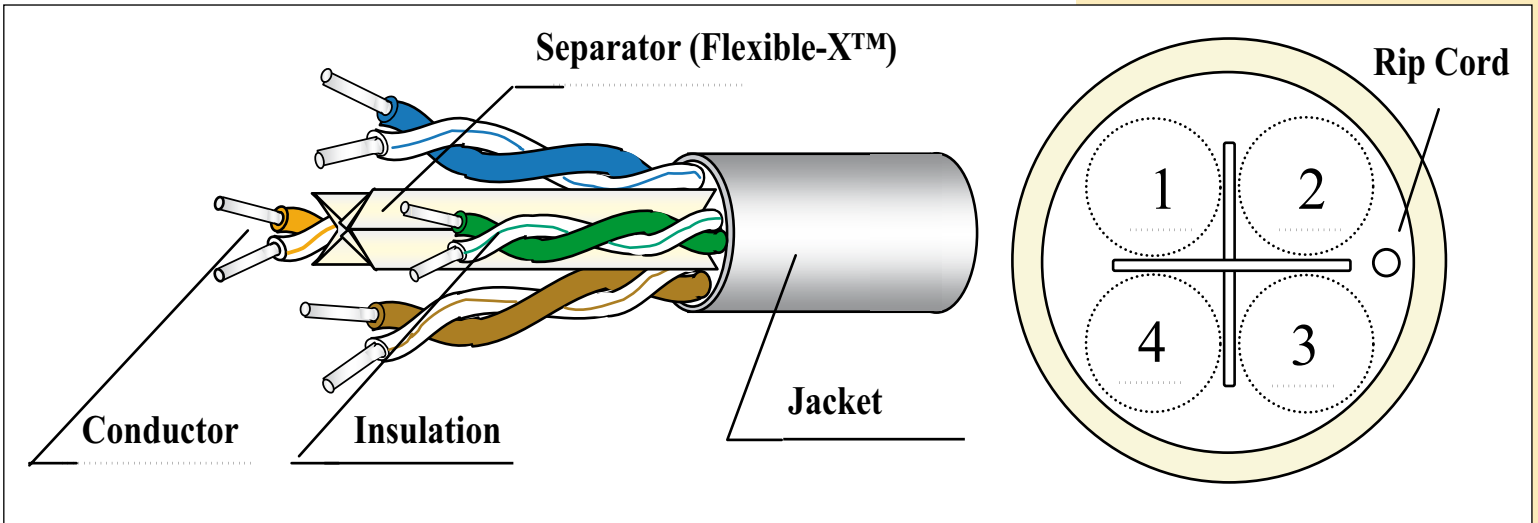
**IMPORTANT NOTE:**

Unshielded LanPro Reliable® CAT 6 U/UTP Network CMP-rated may be used in commercial buildings in Plenum areas. The cables are flame tested and held to a higher standard than either CMR, CM cables. The chemicals used to produce such stopping of fire propagation need substances that have high quantities of halides.

**B Technical Specifications**

Mecánicas		
Conductor	Material	Soft Annealed bare Copper
	Construction [mm]/[inch]	0.579±0.01/0.0228±0.00039
	Size [AWG]	23 AWG
Insulation	Material	FEP
	Thickness [mm]/[inch]	Nominal 0.2 / 0.0079
	Diameter [mm]/[inch]	0.96 ± 0.02 / 0.0378 ± 0.0079
	Colors	Blue/White-Blue
		Orange/White-Orange
		Green/White-Green
		Brown/White-Brown
Elongation [%]	Min. 300	
Tensile Strength [Kg/mm <sup>2</sup> ]	1.682	
Twisted Pair	Assy. Diameter [mm]/[inch]	2.0 / 0.079
Cable Core	Firmed by: 4 twisted pairs stranded together to form the main core	Diameter: 0.498/0.0196
	Detail: See structure	
Flexible-X™	Diameter [mm]/[inch]	4.4 / 0.173
	Thickness [mm]/[inch]	0.5 / 0.0197
	Material	FEP
Jacket	Material Rating	CMP rated (FR)
	Nominal thickness [mm]/[inch]	0.498 / 0.0196
	Diameter [mm]/[inch]	6.0 ± 0.2 / 0.236 ± 0.0079
	Color	Gray
Rip Cord	Included	
Standards	ANSI/TIA-568-C.2, ISO/IEC 11801, CSA C22.2 No. 214/UL 444, CSA FT6 RoHS, ETL Tested	
Electrical		
Conductor	Resistance Ω/100m @ 20°C	Max. 9.38
	Resistance Unbalance	Max 5%
	Capacitance Unbalance	Max 330pF/100m
	Mutual Capacitance	Max 560pF/100m
	Impedance	100Ω±15%, 1 MHz a 100 MHz, ±22%, 125 MHz a 250 MHz
	Propagation delay	536 ns/100 m max. @ 250 MHz
	Skew	45 ns/100 m max. @250 MHz
	Test Voltage(1 min)	1KV /1 min (DC)
Operating Voltage	48 Vrms	
Physical		
	Tension strenght	>9MPa, (9000KN/Square Meter)
	Bending Radius	8 x external dia. during install, 4xexternal dia. afterwards
	Operating Temperature	-20°C to 75°C
	Installation Temperature	0°C to 50°C
	Storage Temperature	-20°C to 75°C

**C Structure**



**D Network Specification**

Item f [Mhz]	RL ≥dB/100m	Atenuación ≥dB/100m	NEXT ≥dB/100m	PSNEXT ≥dB/100m	ELFEXT ≥dB/100m
1	19.0	3.0	65.0	62.0	63.3
4	19.0	4.0	63.0	60.5	51.2
10	19.0	6.3	56.6	54.0	43.2
16	19.0	8.0	53.2	50.6	39.2
20	17.5	9.0	51.6	49.0	37.2
31.25	16.5	11.4	48.4	45.7	33.3
62.5	14.0	16.5	43.4	40.6	27.3
100	12.0	21.3	39.9	37.1	23.2
200	9.0	31.5	34.8	31.9	17.2
250	8.0	36.0	33.1	30.2	15.3

**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.