LP-C6E10BLB LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CM rated with Solid 100% Copper Conductors, 0.54mm Nominal Diameter and Flexible-X™ Nylon core for symmetry and blue jacket in 1000 ft (305m) Easy Pull-Box.

LPC6E10BLB_SS_ENB01W

Features

- Very Flexible.

- Superior performance to traditional designs.

- 568-A and 568-B compatible.

- Exceeds ANSI/TIA-568-D EN 50173-1 and ISO/IEC 11801-1, 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) Twisted Pairs, 0.54mm Nominal Diameter.

- Flame rating: CM thermoplastic cover Jacket with a thickness of 0.55 mm.

- Reliable 6® is a robust product.

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

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

- Operating voltage: <48 Vrms.

- ETL No. 105118692CRT-001a.

EUROStyle

**LP-C6E10BLB
LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CM rated with Solid 100% Copper Conductors, 0.54mm Nominal Diameter and Flexible-X™ Nylon core for symmetry and blue jacket in 1000 ft (305m) Easy Pull-Box.**

The **LP-C6E10BLB** LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CM rated with Solid 100% Copper Conductors, 0.54mm Nominal Diameter with Flexible-X™ Nylon core for symmetry and blue jacket in 1000 ft (305m) Easy-Pull Box is the answer given by LanPro to the large 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-D EN 50173-1 , ISO/IEC 11801-1, CSA FT1 requirements, ETL registered 105118692CRT-001a, making it ideal for transmission links supporting today's networking protocols.

ETL certified for CM commercial applications, the unshielded LanPro Reliable® CAT 6 U/UTP Network Cable is available for immediate delivery in blue color, other colors available under request. Now with "Flexible-X™" construction, Reliable® CAT 6 cable isolates and arranges the pairs throughout the length of the cable, improving field installation as well as performance.

A Applications

Unshielded LanPro Reliable® CAT 6 U/UTP Network CM rated is intended for 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.

B Technical Specifications

Standards	ISO/IEC11801-1, TIA/EIA 568.D EN 50173-1, ETL No. 105118692CRT-001a			
1.- Conductor	Material	100% Copper		
	Nominal Diameter (mm)	0.540	Positive tolerance	+ 2%
			Negative tolerance	- 2%
2.- Isolation layer	Material	HDPE (High Density Polyethylene)		
	Diameter (mm)	0.98±0.03		
	Color	A-Blue, White-Blue	B-Orange, White-Orange	
		C-Green, White-Green	D-Brown, White-Brown	
3.- Ripcord	Yes			
4.- Separator	Flexible –X™			
5.- Drain wire	None			
6.- Jacket	Thickness	0.55±0.05 mm		
	External diameter (O.D.)	6.0±0.4 mm		
	Surface finish	Clean, FRAP, Satinized		
	Material	CM Rated, complies RoHS		
	Color	blue		
7.- Markings	Type height	3.0±0.3 mm		
	Color	Black		
	Print error & space	≤ ±0.5%, 1m		
8.- Packaging	Easy Pull- Box type Carton, Pallet			
	Product length	305 ± 1.5 m		
	Carton Dimensions	40.5cm x 40.5cm x 21cm		
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 (ºC x hours)	100ºC x 24 h x 7d		
	Tensile strength after Aging (Mpa)	≥12.5		
	Elongation after aging (%)	≥125		
	Cold Bend (-20±2ºCx4h)	No visible cracks		
	Bending Radius	8x external Dia. during install		
		4x external Dia. afterwards		
11.- Electrical Properties (20ºC)	Zo (1.0 – 250.0 MHz)	100 ±15 Ohm		
	Delay skew @20ºC (1.0 – 250.0 MHz)	≤ 45 ns/100m		
	Maximum DC Resistance @ (20°C)	9.5 Ohm/100 m		
	% Resistance unbalance between conductors (Max)	5 %		

LANPRO

C   **Certification**

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TIA-0001   Test Summary: PASS

Date / Time: 09/03/2016 01:24:00 PM   Operator: LanPro America   Model: OMNIScanner2
Headroom 2.7 dB (NEXT 36-78)   Software Version: V06.12   Main S/N: 50D04C00038
Test Limit: Cat 6 Chan   NVP: 65.0%   Remote S/N: 50E04C00019
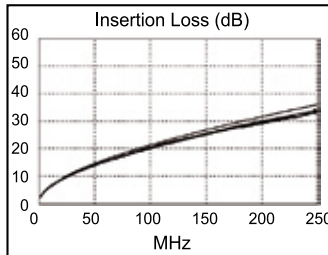Cable Type: LanProCat6-New   Main Adapter: PM06
                                                               Remote Adapter: PM06

```
Wire Map                  Expected     Actual
PASS             omni: 12345678     12345678
                 rem.: 12345678     12345678
```
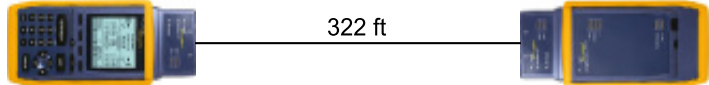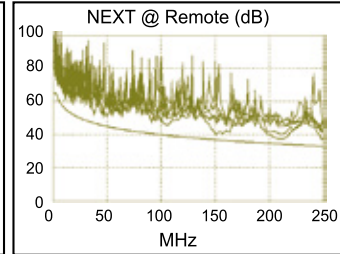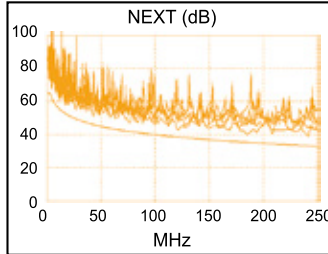
Length (ft), Limit 328	[Pair 78]	322
Prop. Delay (ns), Limit 555	[Pair 36]	521
Delay Skew (ns), Limit 50	[Pair 36]	17
Resistance (ohms)		N/A
Insertion Loss Margin (dB)	[Pair 45]	1.3
Frequency (MHz)	[Pair 45]	247.0
Limit (dB)	[Pair 45]	35.7

	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	45-78	36-78		
NEXT (dB)	4.1	2.7		
Freq. (MHz)	186.3	151.6		
Limit (dB)	35.4	36.8		
Worst Pair	78	78		
PS NEXT (dB)	5.4	4.7		
Freq. (MHz)	121.9	151.6		
Limit (dB)	35.6	34.0		
PASS	MAIN	SR	MAIN	SR
Worst Pair	45-12	12-45		
ACR-F (dB)	4.8	4.8		
Freq. (MHz)	45.5	45.5		
Limit (dB)	30.2	30.2		
Worst Pair	12	12		
PS ACR-F (dB)	7.0	6.4		
Freq. (MHz)	70.9	68.7		
Limit (dB)	23.2	23.6		
PASS	MAIN	SR	MAIN	SR
Worst Pair	78	45		
RL (dB)	5.8	4.5		
Freq. (MHz)	3.2	3.2		
Limit (dB)	19.0	19.0		
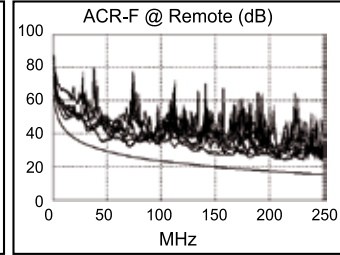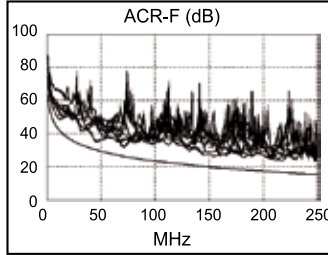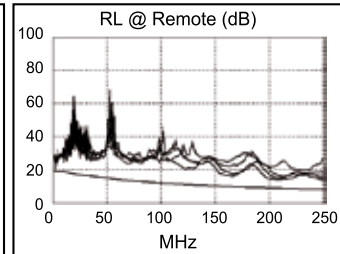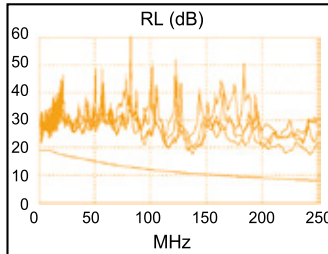
Compliant Network Standards:
10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

322 ft

Insertion Loss (dB)

NEXT (dB)   NEXT @ Remote (dB)

ACR-F (dB)   ACR-F @ Remote (dB)

RL (dB)   RL @ Remote (dB)

LinkWare™ PC Version 9.3

Project: LanProCAT6-NEW

FLUKE networks.

D   Certification Characteristics

Freq.(MHz)	RL >dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	PSNEXT >dB	ELFEXT >dB	PSELFEXT ≥dB
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4	23.0	3.78	65.3	552.00	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	541.20	51.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18	28.98	39.8	536.64	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8

E   Structure

Espaciador (Flexible-X™)

Conductor   Aislamiento   Chaqueta   Hilo de rasgar

Hilo de rasgar

1   2
4   3
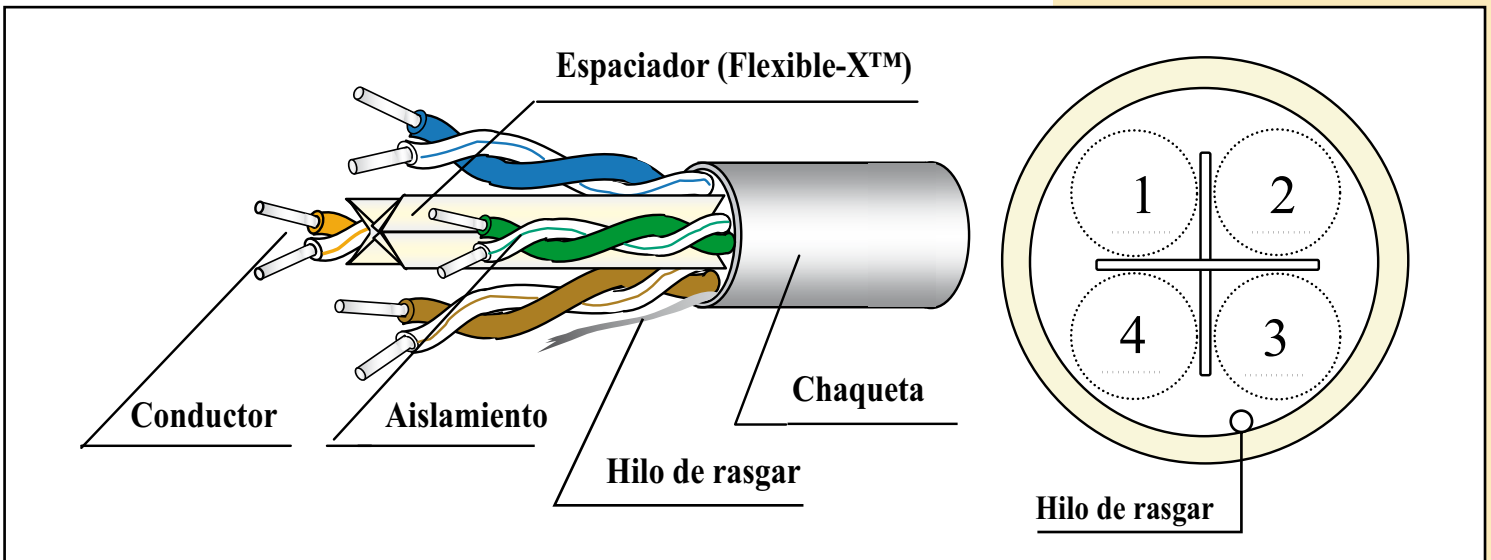
F   How to order

LP-C6E10BLB   LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CM rated with Solid 100% Copper Conductors, 0.54mm Nominal Diameter and Flexible-X™ Nylon core for symmetry and blue jacket in 1000 ft (305m) Easy Pull-Box.