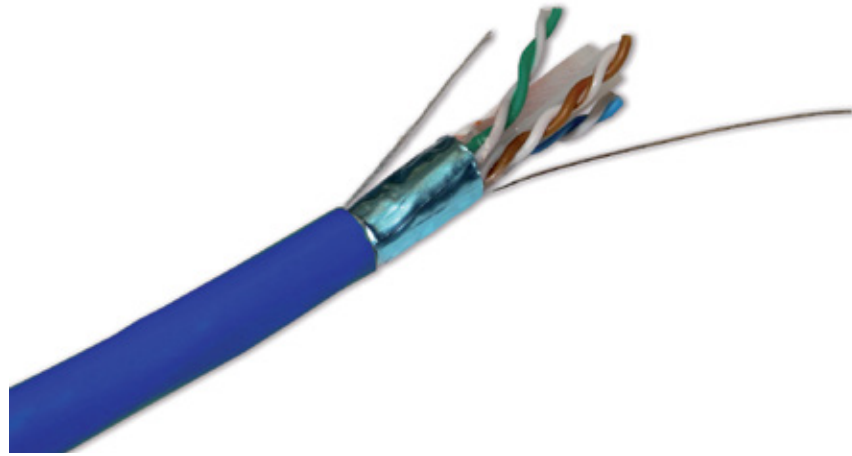**LP-C6300BLC LanPro Reliable® CAT 6 type F/UTP Shielded Network Cable, CMX-rated with Solid Copper Conductors and Flexible-X™ separator for symmetry and Blue jacket in 1000 ft (305 m) wood spool.**

LPC6300BLC_SS_ENB01W

Features

- 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.

- Shielded F/UTP.

- Rip Cord included.

- Drain Wire included.

- 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 0.60 mm.

- Reliable™ CAT 6 is a robust product.

- Packaged in one convenient presentation: 1000 feet (305 m) wood spool.

- Weight: 32 lb (14.5 Kg).

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

- Operating voltage: <48 Vrms.

- UL E329019.

LP-C6300BLC
LanPro Reliable® CAT 6 type F/UTP Shielded Network Cable, CMX-rated with Solid Copper Conductors and Flexible-X™ separator for symmetry and Blue jacket in 1000 ft (305 m) wood spool.

LanPro Reliable® CAT 6 F/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, making it ideal for transmission links supporting today's networking protocols.

A Applications:

Shielded LanPro Reliable® CAT 6 **LP-C6300BLC** F/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.
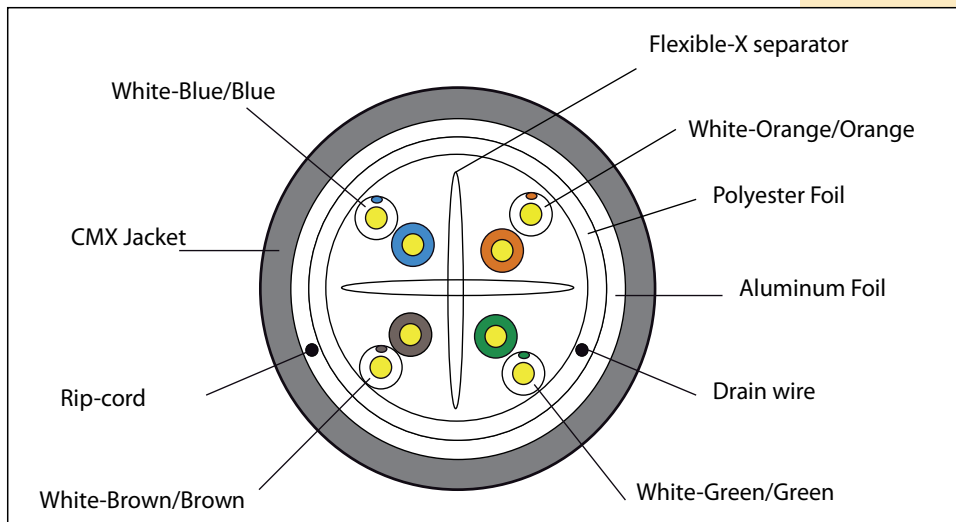
IMPORTANT NOTE:
Shielded LanPro Reliable® **LP-C6300BLC** CAT 6 F/UTP Network CMX-rated belongs to a class of General Purpose cables, and may be used anywhere in Residential areas or inside conduits in commercial areas. The cables are flame tested and held to a lower standard than CM, Riser or Plenum 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, UL approved E329019			
1.- Conductor	Material	Copper 100%		
	AWG #	23		
	Nominal Diameter (mm)	0.570	Positive tolerance	+0.005
			Negative tolerance	-0.005
2.- Isolation layer	Material	HDPE (High Density Polyethylene)		
	Diameter (mm)	1.09 ± 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	Yes			
6.- Jacket	Thickness	0.60 ± 0.05 mm		
	External Diameter, (O.D.)	7.4 ± 0.4 mm		
	Surface finish	Clean, Satinized		
	Material	CMX, complies RoHS		
	Color	Blue		
7.- Markings	Type height	3.0 ± 0.3 mm		
	Color	Black		
	Print error & Space	≤ ± 0.5%, 1 m		
8.- Packaging	Wood Spool			
	Product length	305 ± 1.5 m		
	Weight	32 lb (14.5 Kg)		
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 (%)	≥ 125		
	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 MΩ/Km		
	Zo (1.0 – 250.0 MHz)	100 ± 15 Ω		
	Delay skew @20ºC (1.0 – 250.0 MHz)	≤ 45(ns/100m)		
	Propagation Velocity (% C)	69%		
	Mutual capacitance	5.6 nF max/100 m		
	Capacitance imbalance	330 nF max/100 m		
	Maximum DC Resistance @ (20 ºC)	9.38 Ω/100 m		
	Delay [ns/100m] @250 MHz	536 ns		
	% Resistance unbalance between conductors (Max)	5 %		
	Maximum Operating RMS AC Voltage	≤ 48		
	Peak Operating Voltage (DC)	≤ 68 V		
	(DC) Test Voltage (1 minute)	1.0 KV/ 1 minute		

C   Structure

Flexible-X separator
White-Blue/Blue
White-Orange/Orange
Polyester Foil
CMX Jacket
Aluminum Foil
Rip-cord
Drain wire
White-Brown/Brown
White-Green/Green

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	65.0	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	41.3	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	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8

E   How to Order:

LP-C6300BLC   LanPro Reliable® CAT 6 type F/UTP Shielded Network Cable, CMX-rated with Solid Copper Conductors and Flexible-X™ separator for symmetry and Blue jacket in 1000 ft (305 m) wood spool.

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