LP-C6E30BLB LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CMP Plenum-rated with Solid 100% Copper Conductors, 0.54mm Nominal Diameter and Flexible-X™ Nylon core for symmetry and blue jacket in 1000 ft (305m) Box.

LPC6E30BLB_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 1666.
- 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: CMP thermoplastic cover Jacket with a thickness of 0.55 mm.
- Reliable 6® is a robust product.
- Packaged in one convenient presentation: 1000 feet (305m) Box.
- The Geometry is better with Flexible-X[™] technology.
- Operating voltage: <48 Vrms.



LP-C6E30BLB

LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CMP Plenum-rated with Solid 100% Copper Conductors, 0.54mm Nominal Diameter and Flexible-X™ Nylon core for symmetry and blue jacket

The **LP-C6E30BLB** LanPro Reliable[®] Unshielded CAT 6 U/UTP Network Cable, CMP Plenum-rated with Solid 100% Copper Conductors, 0.54mm Nominal Diameter with Flexible-X[™] Nylon core for symmetry and blue jacket in 1000 ft (305m) 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-C.2, ISO/IEC 11801, UL 1666, UL registered E329019, making it ideal for transmission links supporting today's networking protocols.

UL certified for CMP 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^{TM} " construction, Reliable® CAT 6 cable isolates and arranges the pairs throughout the length of the cable, improving field installation as well as performance.

Applications

Unshielded LanPro Reliable® CAT 6 U/UTP Network CMP 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

1. Conductor Material 1.0% Copper Positive Inclarance Inc	Standards	ISO/IEC11801, TIA/EIA 568.C-2, UL 1666					
1 Conductor Nominal Diameter (mm) Nome		Material	100% Copper				
Material	1 Conductor	Naminal Diameter (mm)	0.540		+0.005		
Diameter (mm) 0.98±0.03 A-Blue, White-Blue B-Orange, White-Orange A-Blue, White-Blue B-Orange, White-Orange A-Blue, White-Blue B-Orange, White-Orange 3. Ripcord Fexible -X™ 5. Drain wire None A-Separator Prickness 0.55±0.05 mm External diameter (O.D.) 6.0±0.4 mm Surface finish Clean, FRAP, Satinized Material Clean, FRAP, Satinized Color blue Type height 3.0±0.3 mm Color Black Print error & space \$\frac{\pmax \text{0.5m} \text{1m}}{2m}\$ 8 Packaging Product length 305 ± 1.5 m Carton Dimensions 4.0.5cm x 40.5cm x 25cm		Nominal Diameter (mm)	0.540		-0.005		
A-Blue, White-Blue B-Orange, White-Orange C-Green, White-Green D-Brown, White-Brown		Material	HDPE (High Density Polyethylene)				
A-Blue, White-Blue B-Orange, White-Orange	2 - Icolation layer	Diameter (mm)	0.98±0.03				
C-Green, White-Green D-Brown, White-Brown	2 Isolation layer	Color	A-Blue, White-Blue	B-Orange, White-Orange			
4 Separator Flexible -X™ 5 Drain wire None 6 Jacket Thickness 0.55±0.05 mm External diameter (0.D.) 6.0±0.4 mm Material Clean, FRAP, Satinized Material CMP Rated, complies RoHS Color blue Type height 3.0±0.3 mm Color Black Print error & space ≤±0.5%, 1m 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 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 (%) ≥12.5 Cold Bend (-20±2°Cx4h) No visible cracks Bending Radius 8x external Dia. during install 4x external Dia. afterwards 4x external Dia. during install 4x external Dia. during install 4x external Dia. during install 4x external Dia. duri		Coloi	C-Green, White-Green	D-Brown, Whi	te-Brown		
Thickness 0.55±0.05 mm	3 Ripcord	Yes					
Thickness	4 Separator	Flexible –X™					
External diameter (O.D.) 6.0±0.4 mm	5 Drain wire	None					
Surface finish		Thickness	0.55±0.05 mm				
Material CMP Rated, complies RoHS		External diameter (O.D.)	6.0±0.4 mm				
Color Dlue	6 Jacket	Surface finish	Clean, FRAP, Satinized				
Type height 3.0±0.3 mm		Material	CMP Rated, complies RoHS				
7 Markings Color Black Print error & space ≤ ±0.5%, 1m 8 Packaging Product length 305 ± 1.5 m 2 Physical properties Temperature Range -20°C to 75°C 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 (%) ≥125 Cold Bend (-20±2°Cx4h) No visible cracks 8x external Dia. during install 4x external Dia. afterwards 2x or (1.0 - 250.0 MHz) 100 ±15 Ohm Delay skew @20°C (1.0 - 250.0 MHz) ≤ 45 ns/100m Maximum DC Resistance @ (20°C) 9.5 Ohm/100 m		Color	blue				
Print error & space $\leq \pm 0.5\%$, 1m Roduct length $\Rightarrow \pm 1.5 \text{ m}$ Carton Dimensions $\Rightarrow \pm 1.5 \text{ m}$ Product length $\Rightarrow \pm 0.5\%$, 1m Product length $\Rightarrow \pm 1.5 \text{ m}$ Carton Dimensions $\Rightarrow \pm 0.5\%$, 20 m. $\Rightarrow \pm 0.5\%$, 21 m. $\Rightarrow \pm 0.5\%$, 1m Physical properties Temperature Range $\Rightarrow \pm 0.0\%$ $\Rightarrow \pm 0.5\%$ Temperature Range $\Rightarrow \pm 0.0\%$ Temsile strength before Aging (Mpa) $\Rightarrow \pm 13.5$ Elongation before aging (%) $\Rightarrow \pm 1.5\%$ Tensile strength after Aging (Mpa) $\Rightarrow \pm 1.5\%$ Tensile strength after Aging (Mpa) $\Rightarrow \pm 12.5\%$ Elongation after aging (%) $\Rightarrow \pm 12.5\%$ Cold Bend ($\pm 0.0\%$) No visible cracks $\Rightarrow \pm 0.0\%$ Rending Radius $\Rightarrow \pm 0.0\%$ Resistance $\Rightarrow \pm 0.0\%$ To $\Rightarrow \pm 0.0\%$ Resistance $\Rightarrow \pm 0.0\%$ To $\Rightarrow \pm 0.0\%$ The properties (20°C) $\Rightarrow \pm 0.0\%$ The product length $\Rightarrow \pm 0.0\%$ Tensile strength before Aging (Mpa) $\Rightarrow \pm 1.5\%$ Tensile strength before Aging (Mpa) $\Rightarrow \pm 1.5\%$ Tensile strength after Aging (Mpa) $\Rightarrow \pm 1.5\%$ T		Type height	3.0±0.3 mm				
8 Packaging Product length 305 ± 1.5 m 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 (%) ≥125 Cold Bend (-20±2°Cx4h) No visible cracks 8x external Dia. during install 4x external Dia. afterwards Properties (20°C) Delay skew @20°C (1.0 - 250.0 MHz) ≤ 45 ns/100m Maximum DC Resistance @ (20°C) 9.5 Ohm/100 m	7 Markings	Color	Black				
Carton Dimensions 40.5cm x 40.5cm x 21cm		Print error & space	≤ ±0.5%, 1m				
Carton Dimensions	9 - Dackaging	Product length	305 ± 1.5 m				
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 (%) ≥125 Cold Bend (-20±2°Cx4h) No visible cracks Bending Radius Zo (1.0 - 250.0 MHz) 100 ±15 Ohm Delay skew @20°C (1.0 - 250.0 MHz) ≤ 45 ns/100m Maximum DC Resistance @ (20°C) 9.5 Ohm/100 m	6 Packaging	Carton Dimensions	40.5cm x 40.5cm x 21cm				
Elongation before aging (%) ≤150	9 Physical properties	Temperature Range	-20°C to 75°C				
Aging Period (°C x hours) 100°C x 24 h x 7d Tensile strength after Aging (Mpa) ≥12.5 Elongation after aging (%) ≥125 Cold Bend (-20±2°Cx4h) No visible cracks Bending Radius 8x external Dia. during install 4x external Dia. afterwards Tensile strength after Aging (Mpa) ≥12.5 Cold Bend (-20±2°Cx4h) No visible cracks 8x external Dia. during install 4x external Dia. afterwards Tensile strength after Aging (Mpa) ≥12.5 Cold Bend (-20±2°Cx4h) No visible cracks 8x external Dia. during install 4x external Dia. afterwards Tensile strength after Aging (Mpa) ≥12.5 Cold Bend (-20±2°Cx4h) No visible cracks 8x external Dia. during install 4x external Dia. afterwards Tensile strength after Aging (Mpa) ≥12.5 Cold Bend (-20±2°Cx4h) No visible cracks 8x external Dia. during install 4x external Dia. afterwards Tensile strength after Aging (Mpa) ≥12.5 Cold Bend (-20±2°Cx4h) No visible cracks 8x external Dia. during install 4x external Dia. afterwards Tensile strength after Aging (Mpa) ≥12.5 Cold Bend (-20±2°Cx4h) No visible cracks 8x external Dia. during install 4x external Dia. afterwards Tensile strength after Aging (Mpa) Elongation after aging (%) ≥12.5 Cold Bend (-20±2°Cx4h) No visible cracks 8x external Dia. during install 4x external Dia. during install		Tensile strength before Aging (Mpa)	≥13.5				
Tensile strength after Aging (Mpa) ≥12.5 Elongation after aging (%) ≥125 Cold Bend (-20±2°Cx4h) No visible cracks Bending Radius Zo (1.0 - 250.0 MHz) 100 ±15 Ohm Delay skew @20°C (1.0 - 250.0 MHz) ≤ 45 ns/100m Maximum DC Resistance @ (20°C) 9.5 Ohm/100 m		Elongation before aging (%)	≤150				
Characteristics Elongation after aging (%) ≥125 Cold Bend (-20±2°Cx4h) No visible cracks Bending Radius 8x external Dia. during install 4x external Dia. afterwards 4x external Dia. afterwards Delay skew @20°C (1.0 - 250.0 MHz) 100 ±15 Ohm Delay skew @20°C (1.0 - 250.0 MHz) ≤ 45 ns/100m Maximum DC Resistance @ (20°C) 9.5 Ohm/100 m		Aging Period (°C x hours)	100°C x 24 h x 7d				
Cold Bend (-20±2°Cx4h) No visible cracks	10 Mechanical	Tensile strength after Aging (Mpa)	≥12.5	≥12.5			
Bending Radius 8x external Dia. during install 4x external Dia. afterwards	characteristics	Elongation after aging (%)	≥125	≥125			
Bending Radius 4x external Dia. afterwards Zo (1.0 - 250.0 MHz) Delay skew @20°C (1.0 - 250.0 MHz) Sequence of the properties (20°C) Maximum DC Resistance @ (20°C) Properties (20°C) Bending Radius 4x external Dia. afterwards 100 ±15 Ohm 9.5 Ohm/100 m		Cold Bend (-20±2°Cx4h)	No visible cracks	No visible cracks			
4x external Dia. afterwards Zo (1.0 - 250.0 MHz) 100 ±15 Ohm Delay skew @20°C (1.0 - 250.0 MHz) ≤ 45 ns/100m Maximum DC Resistance @ (20°C) 9.5 Ohm/100 m		Danding Dadius	8x external Dia. during install				
11 Electrical Delay skew @20°C (1.0 - 250.0 MHz) ≤ 45 ns/100m Properties (20°C) Maximum DC Resistance @ (20°C) 9.5 Ohm/100 m		Bending Radius	4x external Dia. afterwards				
Properties (20°C) Maximum DC Resistance @ (20°C) 9.5 Ohm/100 m		Zo (1.0 – 250.0 MHz)	100 ±15 Ohm				
Properties (20°C) Maximum DC Resistance @ (20°C) 9.5 Ohm/100 m	11 Electrical	Delay skew @20°C (1.0 - 250.0 MHz)	≤ 45 ns/100m				
% Resistance unbalance between conductors (Max) 5 %		Maximum DC Resistance @ (20°C)	9.5 Ohm/100 m				
		% Resistance unbalance between conductors (Max)	5 %				

322 ft

Certification





Cable ID: TIA-0001

Date / Time: 09/03/2016 01:24:00 PM Headroom 2.7 dB (NEXT 36-78)

Test Limit: Cat 6 ChanCable Type: LanProCat6-New

Operator: LanPro America Software Version: V06.12

NVP: 65.0%

Test Summary: PASS

Model: OMNIScanner2 Main S/N: 50D04C00038 Remote S/N: 50E04C00019 Main Adapter: PM06 Remote Adapter: PM06

Wire Map	Expected	Actual
Wire Map PASS omni	: 12345678	12345678
	: 12345678	12345678
Length (ft), Limit 328	[Pair 78]	322
Prop. Delay (ns), Limit 555	Pair 361	521

Prop. Delay (ns), Limit 555 Delay Skew (ns), Limit 50 Resistance (ohms)	[Pair 36] [Pair 36]	521 17 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
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

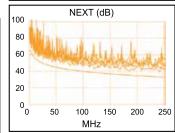
 1000BASE-T
 ATM-25

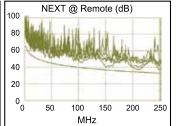
 ATM-155
 100VG-AnyLan

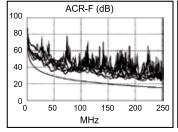
 TR-16 Active
 TR-16 Passive

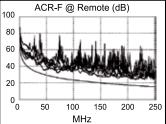
100BASE-T4 ATM-51 TR-4

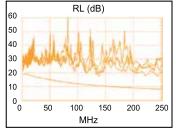
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50					_
40					
30					
20			_		
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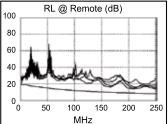












LinkWare™ PC Version 9.3

Project: LanProCAT6-NEW

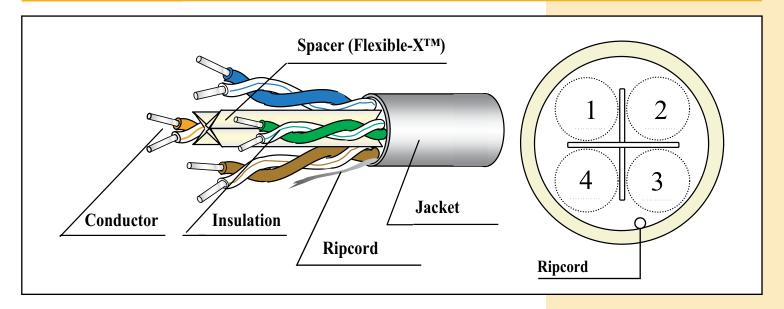




Certification Characteristics

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

Structure



How to order

LP-C6E30BLB

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