LP-CE002BLBUS LanPro Reliable® CAT 5e U/UTP Network Cable, CMX-rated blue color jacket with Bimetallic 55% Copper, 45% Aluminum Conductors, 1000 ft Easy-Pull Box.

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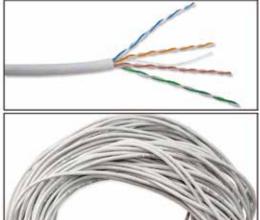
Features

- Reliable[™] CAT 5e is a robust product.
- Specified and tested to well over 100 MHz.
- Excellent Headroom of 8.2 dB (NEXT 12-45)
- IEEE802.3af and IEEE802.3at PoE compliant for the entire 100m cable run.
- Lower bit error rate increases network efficiency and uptime.
- □ TIA/EIA 568B CAT 5E.
- Superior performance to traditional designs.
- 568-A and 568-B compatible.
- Exceeds ANSI/TIA-568B, ISO/IEC 11801.
- Unshielded U/UTP.
- Rip Cord included.
- Backward compatible with CAT 5 systems.
- \blacksquare Excellent price/performance ratio.
- Blue color jacket.
- Four (4) 24 AWG Twisted Pairs.
- Flame rating: CMX cover Jacket with a thickness of 0,50mm.
- Packaged in one convenient presentation: 1000 feet (305m) Easy-Pull Box.
- Weight: 10 Kg
- □ Operating voltage: <48 Vrms.
- RoHS Compliant.

Applications

- For structured UTP cable installations in indoors.
- Enables wiring of all kinds of network equipment based in the CAT 5e standard.
- Power distribution to remote data equipment based in the PoE technology.





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This cable is manufactured with Bimetallic technology, with the purpose of lowering cost without compromising performance and certification for most of the structured cabling applications in the market.

The technology of Bimetallic cables is based in the high frequency skin effect in which most of the current flows near the surface of the conductor and much less in the core. This is why the core is aluminum and the surface is copper.

Excellent handling characteristics for the installer, with a jacket made with CMX rated material, a very though and abrasion resistant material.

With its AWG 24 wires, it gives excellent characteristics to the user.

A Copper/Aluminum ratio of 55/45, warrants the user excellent characteristics for the Price. The resistivity per meter, and other electric characteristics permit true certification as a CAT 5e UTP cable for 100 m runs.

An uniform structure along the length of the cable, by means of uniform wire twist machining in the fabrication process, reduces cross talk between pairs to values that ensure certification.

We have subjected this cable to open flame and taken a photo of the cable extinguishing features in **Figure 1**.



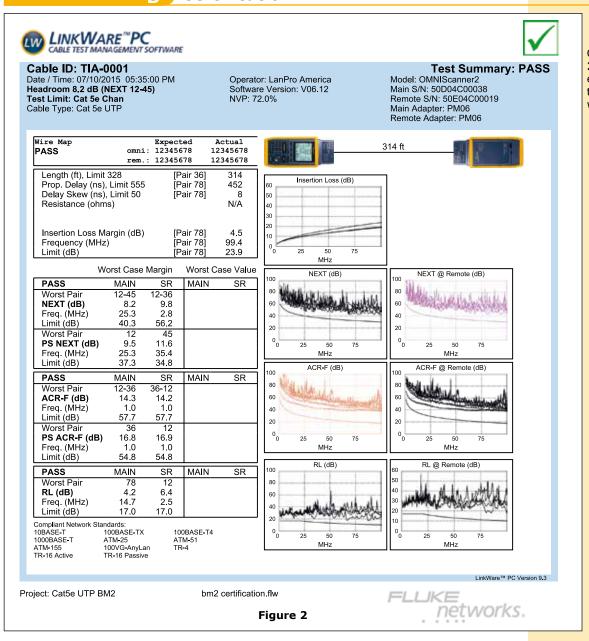
Figure 1

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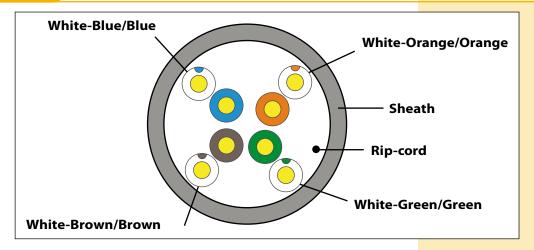


Certification



Certification shown in **Figure 2**, results in a cable with excellent characteristics for the price. It was performed with a model OMNIScanner2.

Cable Structure





Technical Specifications

Standards	ISO/IEC11801, TIA/EIA 568B						
1Conductor	Material	55%	55% Copper 45% Aluminum				
	AWG #	24	24				
	N : 18: 1 ()	1.5	Positive tolerance	+0.005			
	Nominal Diameter (mm)	0.5	Negative tolerance	-0.005			
2Isolation layer	Material	HDP	HDPE (High Density Polyethylene)				
	Diameter (mm)	0.90	0.90±0.02				
	Elongation	Min.	Min. 300%				
		A-Bli	A-Blue, White-Blue B-Orange, White-Orange				
	Color		een, White-Green	D-Brown, White-Brown			
3Rip Cord	Yes						
4Shielding	U/UTP (Unshielded)						
5Jacket	Thickness		0.55±0.05 mm				
	External Diameter, (O.D.)		5.0±0.3 mm				
	Surface finish		Clean, Frap. Satiation				
	Material		CMX, RoHS				
	Color	Blue					
6Markings	Type height	3.0±0.3 mm					
	Color		Black				
7Packaging	Easy-Pull Box						
	Product length	305	305 ± 1.5 m				
	Carton Dimensions	35cn	35cmx35cmx20cm				
8Electrical properties @ 20°C	Isolation resistance @500 V	Min	Min 5000 MOhm/Km				
	Zo (1.0 - 100.0 MHz)	100	100 ±15 Ohm				
	Propagation Velocity (% C)	68%	68%				
	Delay Skew	≤45	≤45(ns/100m)				
	Maximum DC Resistance @ (20 °C)	13 C	13 Ohm/100 m				
	Delay [ns/100m] @100 MHz	570	570 ns				
	% Resistance unbalance between conductors(Max)	2.5	2.5 %				
	Maximum Operating RMS AC Voltage	±48	±48				
	Peak Operating Voltage (DC)	±68	±68				
	(DC) Test Voltage (1minute)	1.0	1.0 KV/ 1 minute				

Certification Characteristics

Frequency (MHz)	RL (dB)	Phase ≥ Delay ns	ATT ≤ (dB/100m)	NEXT ≥(dB/100m)	PSNEXT ≥ (dB/100m)	ACR-F ≥ (dB/100m)	PS ACR-F≥ (dB/100m)
1	23.0	570.00	1.8	74.4	73.2	67.8	66.8
4	27.2	552.00	4.3	64.4	62.1	57.9	56.8
8	26.2	546.73	6.2	67.6	65.6	51.4	49.9
10	27.0	545.73	6.8	61.3	59.4	47.6	46.1
16	25.9	545.38	8.5	55.9	54.7	46.0	44.8
20	24.5	542.05	9.4	55.8	54.7	43.7	42.3
25	24.8	541.20	10.4	55.5	51.5	42.4	38.7
31.25	19.1	540.44	11.5	53.8	50.1	41.2	38.3
62.5	26.8	538.55	16.1	47.4	45.0	31.5	28.8
100	19.3	537.60	20.9	47.3	45.2	28.3	26.9

How to order

LP-CE002BLBUS

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