### LP-CA0J0VLB

LanPro Performax®, Unshielded Network Cable CAT 6A U/UTP, with violet color LSZH-rated jacket, Low smoke Zero-Halogen

LPCA0J0VLB\_SS\_ENB01W

#### **Features**

- Specified and Tested to 500 MHz.
- Lower Bit Error Rates increases network efficiency and uptime.
- Very Flexible, reduces installation costs and maintenance.
- Superior performance to traditional designs.
- 568-A and 568-B compatible.
- Rugged Construction.
- Backward compatible with CAT 6 and CAT 5e systems.
- Excellent price/performance ratio.
- 4 pairs 23 AWG UTP.
- Reliable CAT 6A is a robust product.
- Packaged in one convenient presentation. 1000 feet (305±1.5m) per box.
- Operating voltage ≤ 48 Vrms.
- Exceeds ANSI/TIA-568-C.2, ISO/IEC 11801, IEC 60332-1C requirements.
- Flame rating: LSZH thermoplastic cover Jacket.
- DELTA No. 2014-111.
- Comply IEEE 802.3an (10G-BaseT) and 802.3af/at (PoE full power specs).















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LanPro Performax®, Unshielded Network Cable CAT 6A U/UTP, with violet color LSZH-rated jacket for easy identification, is the answer given by LanPro to the demand imposed by today's high performance applications at reasonable prices. Tested to well over 500 MHz, the guaranteed performance of this cable meets the ANSI/TIA-568-C.2, ISO/IEC 11801, DELTA No. 2014-111, making it ideal for transmission links supporting today's networking protocols up to 10G.

#### **IMPORTANT NOTE:**

The LSZH cables when taking fire, generate fumes that doesn't contain halogens resulting in a cable safer to use in public places, fire propagation speed is similar to CMX.



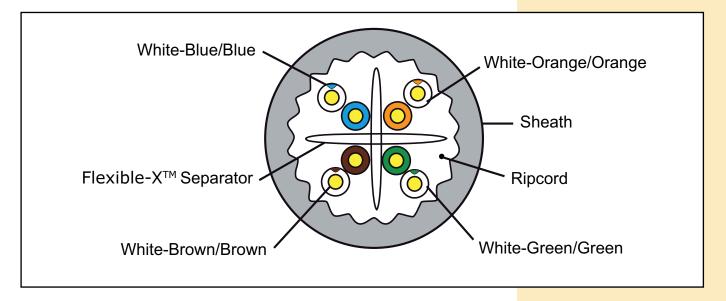
# Applications

LanPro Performax® LP-CA0J0VLB CAT 6A U/UTP Unshielded Network Cable, with gray color LSZH-rated jacket is intended for high speed data applications, including 10 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.

## Technical Specifications

Material   LSZH, complies with RoHS	Standards	ISO/IEC11801, TIA/EIA 568.C.2, DELTA Approval No	o. 2014-111, IEC 6	50332-1C				
Nominal Diameter (mm)	Conductor	Material	100% Copper					
Nominal Diameter (mm)		AWG #	23	3				
Material   HDPE	Conductor	Nominal Diameter (mm)	0.570	Positive tolerance	+0.005			
Diameter (mm)		Nominal Diameter (mm)	0.370	Negative tolerance	-0.005			
Diameter (mm)	Teologies laves	Material	HDPE					
External Diameter, (O.D.)   6.9±0.4 mm	150iation layer	Diameter (mm)	1.03±0.03					
Surface finish   Clean   Material   LSZH, complies with RoHS		Thickness	0.65±0.05 mm					
Material		External Diameter, (O.D.)	6.9±0.4 mm					
Color	Jacket	Surface finish	Clean					
Letter height   3.0±0.3 mm		Material	LSZH, complies with RoHS					
Color		Color	Violet					
Print error & Space	Markings	Letter height	3.0±0.3 mm	.0±0.3 mm				
1. Blue		Color	Black	ick				
3. Green - White/Green   4. Brown - White/Brown		Print error & Space	≤ ±0.5%, 1m	±0.5%, 1m				
3. Green - White/Green   4. Brown - White/Brown	Core Color	1. Blue- White/Blue	2. Orange - White/Or		range			
Packing length   305±1.0m		3. Green - White/Green	4. Brown – White/Brown					
Properties   Percent	Packing	Box						
Before Aging Tensile Strength (Mpa) ≥13.5  Elongation (%) ≥150  Aging Period (°C×hrs) 100°C×24h×7d  After Aging Tensile Strength (Mpa) ≥12.5  Elongation (%) ≥125  Cold bend (-20±2°C×4h) 8×Cable O.D. No visible cracks  Operating voltage ≤ 48 Vrms  Temperature rating 75°C.  Safety test voltage 1kv/1min. (DC).  Mutual Capacitance 4.2 nF/100 M nom.  Pair to ground 330pF/100m max.  Conductor DC resistance 9.2 Ohm/100m max. at 20°C.  DC Resistance Unbalance 5% máx.  Characteristic Impedance 100±15 Ohm 1~500 MHz.  Propagation Delay skew 45 ns/100 m máx. 1~500 MHz.	Packing length	305±1.0m						
Elongation (%)   ≥150	Ripcord	Yes						
Jacket Physical Properties         Aging Period (°C×hrs) 100°C×24h×7d         After Aging Tensile Strength (Mpa)       ≥12.5         Elongation (%)       ≥125         Cold bend (-20±2°C×4h) 8×Cable O.D. No visible cracks         Operating voltage       ≤ 48 Vrms         Temperature rating       75°C.         Safety test voltage       1kv/1min. (DC).         Mutual Capacitance       4.2 nF/100 M nom.         Pair to ground       330pF/100m max.         Conductor DC resistance       9.2 Ohm/100m max. at 20°C.         DC Resistance Unbalance       5% máx.         Characteristic Impedance       100±15 Ohm 1~500 MHz.         Propagation Delay skew       45 ns/100 m máx. 1~500 MHz.		Before Aging Tensile Strength (Mpa)	≥13.5					
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Operating voltage  Temperature rating Safety test voltage  Mutual Capacitance  Pair to ground Conductor DC resistance  DC Resistance Unbalance Characteristic Impedance  Propagation Delay skew  Operating voltage    ≤ 48 Vrms     75°C.   1kv/1min. (DC).   4.2 nF/100 M nom.   330pF/100m max.   9.2 Ohm/100m max. at 20°C.   5% máx.   100±15 Ohm 1~500 MHz.   45 ns/100 m máx. 1~500 MHz.		Elongation (%)	≥125					
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Safety test voltage  Mutual Capacitance  Pair to ground  Conductor DC resistance  DC Resistance Unbalance  Characteristic Impedance  Propagation Delay skew  1kv/1min. (DC).  4.2 nF/100 M nom.  330pF/100m max.  9.2 Ohm/100m max. at 20°C.  5% máx.  100±15 Ohm 1~500 MHz.	Electrical characteristics 20°C	Operating voltage	≤ 48 Vrms					
Electrical characteristics 20°C  Mutual Capacitance  Pair to ground  Conductor DC resistance  DC Resistance Unbalance  Characteristic Impedance  Propagation Delay skew  4.2 nF/100 M nom.  330pF/100m max.  9.2 Ohm/100m max. at 20°C.  5% máx.  100±15 Ohm 1~500 MHz.  45 ns/100 m máx. 1~500 MHz.		Temperature rating	75°C.					
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Conductor DC resistance  DC Resistance Unbalance  Characteristic Impedance  Propagation Delay skew  Propagation Delay skew  SSOPY FORM Max.  9.2 Ohm/100m max. at 20°C.  5% máx.  100±15 Ohm 1~500 MHz.  45 ns/100 m máx. 1~500 MHz.		Mutual Capacitance	4.2 nF/100 M nom.					
Conductor DC resistance  DC Resistance Unbalance  Characteristic Impedance  Propagation Delay skew  2.2 Ohm/100m max. at 20°C.  5% máx.  100±15 Ohm 1~500 MHz.  45 ns/100 m máx. 1~500 MHz.		Pair to ground	330pF/100m max.					
DC Resistance Unbalance 5% máx.  Characteristic Impedance 100±15 Ohm 1~500 MHz.  Propagation Delay skew 45 ns/100 m máx. 1~500 MHz.		Conductor DC resistance	9.2 Ohm/100m max. at 20°C.					
Propagation Delay skew 45 ns/100 m máx. 1~500 MHz.		DC Resistance Unbalance	5% máx.					
		Characteristic Impedance	100±15 Ohm 1~500 MHz.					
Velocity of Propagation 69%		Propagation Delay skew	45 ns/100 m máx. 1~500 MHz.					
· · ·		Velocity of Propagation	69%					

## Cable Structure



# Technical Performance (100m)

Freq. (MHz)	Insertion Loss	NEXT ≥dB	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB	Delay ≤ns
1	2.1	74.3	72.3	67.8	64.8	570.0
4.0	3.8	65.3	63.3	55.8	52.8	552.0
8.0	5.3	60.8	58.8	49.7	46.7	546.7
10.0	5.9	59.3	57.3	47.8	44.8	545.4
16.0	7.5	56.2	54.2	43.7	40.7	543.0
20.0	8.4	54.8	52.8	41.8	38.8	542.1
25.0	9.4	53.3	51.3	39.8	36.8	541.2
31.25	10.5	51.9	49.9	37.9	34.9	540.4
62.5	15.0	47.4	45.4	31.9	28.9	538.6
100	19.1	44.3	42.3	27.8	24.8	537.6
200	27.6	39.8	37.8	21.8	18.8	536.5
250	31.1	38.3	36.3	19.8	16.8	536.1
300	34.3	37.1	35.1	18.3	15.3	536.1
500	45.3	33.8	31.8	13.8	10.8	535.6

### How to Order

LP-CA0J0VLB LanPro Performax®, Unshielded Network Cable CAT 6A U/UTP, with violet color LSZH-rated jacket, Low smoke Zero-Halogen, packed in 1000ft (305m) box.