LP-CAOROVLB

LanPro Performax®, Unshielded Network Cable CAT 6A U/UTP, with violet color LSZH-rated Level 3 jacket, Low smoke Zero-Halogen

LPCAOROVLB_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 60332-3 requirements.
- Flame rating: LSZH Level 3 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 Level 3 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, IEC 60332-3, DELTA No. 2014-111, making it ideal for transmission links supporting today's networking protocols up to 10G.

IMPORTANT NOTE:

The LSZH Level 3 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.



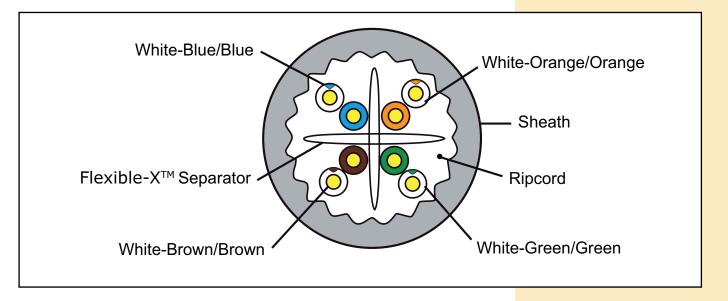
Applications

LanPro Performax® LP-CA0R0VLB CAT 6A U/UTP Unshielded Network Cable, with gray color LSZH-rated Level 3 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 100% Copper All All All All All All All All All Al	Standards	ISO/IEC11801, TIA/EIA 568.C.2, DELTA Approval N	o. 2014-111, IEC 6	50332-3				
Nominal Diameter (mm)	Conductor	Material	100% Copper					
Nominal Diameter (mm)		AWG #	23					
Material HDPE		Nominal Diameter (mm)	0.570	Positive tolerance	+0.005			
Diameter (mm) 1.03±0.03		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 Level 3, complies with RoHS		Thickness	0.65±0.05 mm					
Material LSZH Level 3, complies with RoHS		External Diameter, (O.D.)	6.9±0.4 mm					
Color	Jacket	Surface finish	Clean					
Letter height 3.0±0.3 mm	Markings	Material	LSZH Level 3, complies with RoHS					
Markings Color Black Print error & Space ≤ ±0.5%, 1m Corange - White/Orange Core Color 1. Blue - White/Blue 2. Orange - White/Orange 3. Green - White/Green 4. Brown - White/Brown Packing Box Packing length Yes Before Aging Tensile Strength (Mpa)		Color	Violet					
Print error & Space S ± 0.5%, 1m		Letter height	3.0±0.3 mm	3.0±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/O		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					
Physical Properties After Aging Tensile Strength (Mpa) Elongation (%) Cold bend (-20±2°C×4h) 8×Cable O.D. No visible cracks Operating voltage Temperature rating Safety test voltage Aster Aging Tensile Strength (Mpa) ≥12.5 Cold bend (-20±2°C×4h) 8×Cable O.D. No visible cracks Operating voltage Itw/1min. (DC). Mutual Capacitance Aster Aging Tensile Strength (Mpa) ≥12.5 Cold bend (-20±2°C×4h) 8×Cable O.D. No visible cracks Operating voltage Itw/1min. (DC). Mutual Capacitance Aster Aging Tensile Strength (Mpa) ≥12.5 Cold bend (-20±2°C×4h) 8×Cable O.D. No visible cracks Operating voltage Itw/1min. (DC). Mutual Capacitance Aster Aging Tensile Strength (Mpa) ≥12.5 Cold bend (-20±2°C×4h) 8×Cable O.D. No visible cracks Operating voltage Temperature rating 75°C. Safety test voltage Itw/1min. (DC). Mutual Capacitance Pair to ground 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.	Physical	Elongation (%)	ation (%) ≥150					
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.		Aging Period (°C×hrs) 100°C×24h×7d						
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.		After Aging Tensile Strength (Mpa)	≥12.5					
Pelectrical characteristics 20°C Electrical characteristics 20°C Conductor DC resistance DC Resistance Unbalance DC Resistance Unbalance 100±15 Ohm 1~500 MHz. Propagation Delay skew ≤ 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.		Elongation (%)	≥125					
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.		Cold bend (-20±2°C×4h) 8×Cable O.D. No visible cracks						
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.	characteristics	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.					
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.		Safety test voltage	1kv/1min. (DC).					
Conductor DC resistance DC Resistance Unbalance Characteristic Impedance Propagation Delay skew Propagation Delay skew SSOPY 100H 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-CA0R0VLB LanPro Performax®, Unshielded Network Cable CAT 6A U/UTP, with violet color LSZH-rated Level 3 jacket, Low smoke Zero-Halogen, packed in 1000ft (305m) box.