

LP-CA7G0VLC01**Shielded CAT 6A U/FTP Network Cable Low Smoke Zero-Halogen.**

LPCA7G0VLC01_SS_ENB01W

Features

- Specified and tested to well over 500 MHz.
- Lower Bit Error Rates increases network efficiency and uptime.
- DELTA No.2014-111 verified.
- Very flexible, reduces installation costs and maintenance.
- Superior performance to traditional designs.
- 568A and 568B compatible.
- Rugged construction.
- Backward compatible with CAT 6 and CAT 5e systems.
- Excellent price/performance ratio.
- Available in violet color.
- 4 pairs of 23 AWG, 100% copper.
- Jacket: LSZH. (Low Smoke Zero-Halogen).
- Exceeds ISO/IEC 11801, ANSI/TIA/EIA-568-C.2, UL-444, CSA 22.2 No. 214-08 (7/11/2008).
- Flame Rating: IEC 60332-1.
- Performax® is a robust product.
- Packaged in one convenient 1000 feet (305 ± 1.5 m) wood spool.
- Operating voltage ≤ 48 Vrms.
- Comply IEEE 802.3an (10G-BaseT) and 802.3af/at (PoE full power specs).

Applications

- Category 6A U/FTP cable is intended for high speed data applications including: 10G BASE-T, 100BASE-TX, 155 Mb/s ATM, 4/16 Mb/s Token Ring.

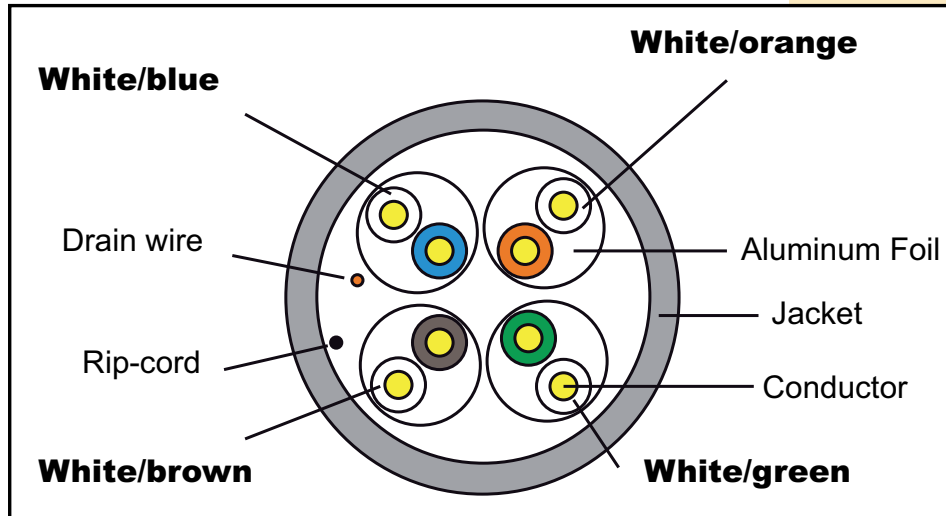


LP-CA7G0VLC01
Shielded CAT 6A U/FTP Network
Cable Low Smoke Zero-Halogen.

Performax® CAT 6A U/FTP cable is the answer given by LanPro to the 10G channel 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 and ISO/IEC 11801 requirements, making it ideal for high-end transmission links supporting today's networking protocols.

Additionally, the LSZH LanPro cable protects people against poisonous gases when it burns. Typically a PVC cable emits 28% of hydrogen chloride producing greater volumes of toxic fumes, but with the LSZH cable the emission is approximately 0.5% of hydrogen chloride. If the installation is in a public building such as hospitals, prisons, airports, schools, shopping malls, apartment buildings, theaters, etc. you should be very careful with the kind of cable selected. The only way of ensuring the safety of people is to specify LanPro LSZH cable.

A Specifications



Construction Type:

U/FTP 23 AWG 0.57 mm (0.023 in.) bare 100% copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair shielded with foil and four such cabled pairs to form the basic unit jacketed with flame-retardant IEC 60332-1 material.

Twisted Pairs Color Code:

PAIR 1: Blue, White
 PAIR 2: Orange, White
 PAIR 3: Green, White
 PAIR 4: Brown, White

Mylar-Backed Aluminium Foil Tape:

Overall screened construction ensures virtually zero alien crosstalk enclosing a 0.51 mm (0.20 in.) (23 AWG) tinned copper drain wire.

Rip Cord:

For easy stripping.

Drain Wire:

In order to reinforce the UL-444 regulation as well as shielding integrity along the whole length of the cable, a tinned plated drain wire is supplied. In this way the integrity of the grounding is assured at any time or situation.

Cable Diameter:

7.4mm max cable jacket diameter provides better pathway fill over larger 10Gb/s U/FTP cables.

Standards Compliant:

ISO/IEC 11801, ANSI/TIA/EIA-568-C.2, UL 444, IEC 60332-1 rated, DELTA No. 2014-111 approved.

● Physical Characteristics

Before Aging:

1. Tensile strength (Mpa): ≥ 10.0 .
2. Elongation (%): ≥ 125 .

Period Aging ($^{\circ}\text{C} \times \text{hrs}$): $100^{\circ}\text{C} \times 24\text{hx}7\text{d}$.

After Aging:

1. Tensile strength (Mpa): ≥ 8.0 .
2. Elongation (%): ≥ 100 .

● Component

1. Conductor: AWG 23 (0.570 ± 0.005 mm, 100% copper).
2. Insulators: Skin-Foam-Skin (PE).
3. Insulators Diameter: 1.350 ± 0.05 mm.
4. Al-Mylar Tape: 65u*12.5 mm.
5. Jacket: 90°C (Thickness 0.55 ± 0.05 mm).
6. Jacket Diameter: 7.4 ± 0.5 mm.
7. Material: LSZH.

Note: All versions have a ripcord. All foil shielded versions have a drain wire.

● Electric Characteristics

1. Operating voltage: ≤ 48 Vrms.
2. Temperature rating: 75°C.
3. Safety test voltage: 1kv/1min. (DC).
4. Mutual Capacitance: 5.6 nF/100 m nom.
5. Pair to ground: 330pF/100m max.
6. Conductor DC resistance: 89 Ohm/Km max. at 20°C.
7. DC Resistance Unbalance: 2% max.
8. Characteristic Impedance: 100±15 Ohm 1~500 MHz.
9. Propagation Delay skew: 45 ns/100 m max. 1~500 MHz.
10. Velocity of Propagation: 74%.

FREQ	Insertion Loss	NEXT	RL	PSNEXT	ACRF	PSACRF	DELAY
MHz	(max. dB/100m)	(min. dB)	(min. dB at 20..)	(min. dB)	(min. dB)	(min. dB)	(ns/100 m)
1	2.1	74.3	20.0	72.3	67.8	64.8	570
4	3.8	65.3	23.0	63.3	55.8	52.8	552
8	5.3	60.8	24.5	58.8	49.7	46.7	547
10	5.9	59.3	25.0	57.3	47.8	44.8	545
16	7.5	56.2	25.0	54.2	43.7	40.7	543
20	8.4	54.8	25.0	52.8	41.8	38.8	542
25	9.4	53.3	24.3	51.3	39.8	36.8	541
31.25	10.5	51.9	23.6	49.9	37.9	34.9	540
62.5	15.0	47.4	21.5	45.4	31.9	28.9	539
100	19.1	44.3	20.1	42.3	27.8	24.8	538
200	27.6	39.8	18.0	37.8	21.8	18.8	537
250	31.1	38.3	17.3	36.3	19.8	16.8	536
300	34.3	37.1	16.8	35.1	18.3	15.3	536
400	40.1	35.3	15.9	33.3	15.8	12.8	536
500	45.3	33.8	15.2	31.8	13.8	10.8	536

● **Typical random certification test**



Cable ID: LANPRO-UFTP-CAT6A-C

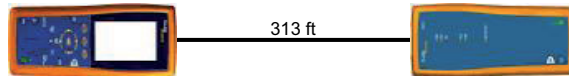
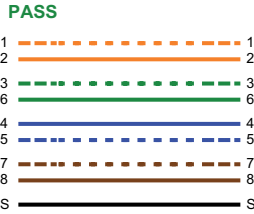
Test Summary: PASS

Date / Time: 01/14/2013 10:17:13am
 Headroom: 8.4 dB (NEXT 36-45)
 Test Limit: TIA Cat 6A Channel
 Cable Type: Cat 6A FTP

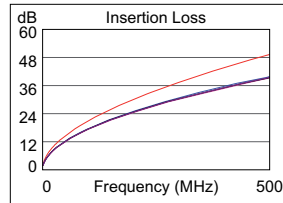
Operator: LanPro
 Software Version: 2.5200
 Limits Version: 1.7000
 NVP: 74.0%

Model: DTX-1800
 Main S/N: 9485115
 Remote S/N: 9485116
 Main Adapter: DTX-CHA001
 Remote Adapter: DTX-CHA001

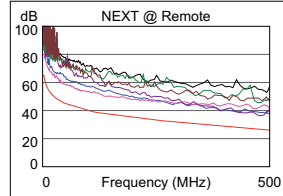
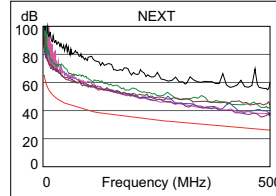
Wire Map (T568B)



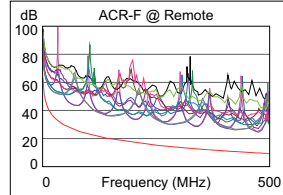
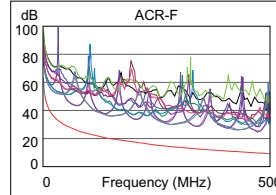
Length (ft), Limit 328	[Pair 45]	313
Prop. Delay (ns), Limit 555		445
Delay Skew (ns), Limit 50		15
Resistance (ohms)	[Pair 12]	14.8
Insertion Loss Margin (dB)	[Pair 12]	9.4
Frequency (MHz)	[Pair 12]	500.0
Limit (dB)	[Pair 12]	49.3



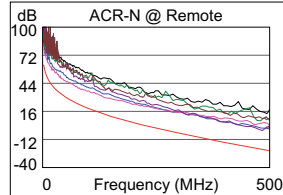
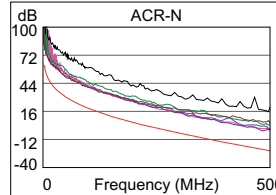
Worst Case Margin	Worst Case Value		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	36-45	36-45	36-45	36-45
NEXT (dB)	8.4	9.0	8.4	9.0
Freq. (MHz)	484.0	479.0	484.0	479.0
Limit (dB)	26.5	26.6	26.5	26.6
Worst Pair	45	36	45	36
PS NEXT (dB)	9.2	9.7	9.2	9.7
Freq. (MHz)	484.0	481.0	484.0	481.0
Limit (dB)	23.6	23.7	23.6	23.7



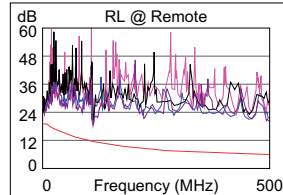
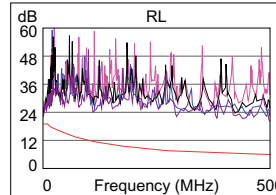
Worst Case Margin	Worst Case Value		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	45-12	45-12	45-12	45-12
ACR-F (dB)	14.7	14.7	14.7	14.7
Freq. (MHz)	472.0	474.0	472.0	474.0
Limit (dB)	9.8	9.7	9.8	9.7
Worst Pair	45	45	12	12
PS ACR-F (dB)	15.4	15.4	16.3	16.4
Freq. (MHz)	4.1	4.3	472.0	474.0
Limit (dB)	47.9	47.7	6.8	6.7



Worst Case Margin	Worst Case Value		Worst Case Value	
	MAIN	SR	MAIN	SR
N/A				
Worst Pair	36-45	12-45	36-45	36-45
ACR-N (dB)	18.1	15.3	18.1	18.4
Freq. (MHz)	484.0	41.8	484.0	479.0
Limit (dB)	-22.0	33.0	-22.0	-21.6
Worst Pair	45	12	45	36
PS ACR-N (dB)	18.0	16.8	18.8	19.2
Freq. (MHz)	13.4	4.9	484.0	481.0
Limit (dB)	44.4	54.6	-24.8	-24.6



Worst Case Margin	Worst Case Value		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	78	78	78	78
RL (dB)	4.9	3.7	14.2	7.0
Freq. (MHz)	3.0	3.9	500.0	111.0
Limit (dB)	19.0	19.0	6.0	11.5



Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 10GBASE-T ATM-25
 ATM-51 ATM-155 100VG-AnyLan
 TR-4 TR-16 Active TR-16 Passive


Project: CAT6
 Site: ZL

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LinkWare Version 6.0

B Delta Certification approval



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Compliance Statement

No. 2014-111

Data communication cable, Category 6A

Company
 LanPro Inc
 1880 NW 93rd Av
 Doral, Florida 33172
 USA

Product description
 Screened cable (U/FTP) characterised up to 500 MHz
 Horizontal floor wiring cable, 100 Ω
 4 individually foil screened twisted pairs
 Flame retardant, halogen free

Product identification
 U/FTP CAT6A

Generic cabling and cabling components standards - Category 6A cable requirements

- ISO/IEC 11801:2011 (Ed. 2.2)
- IEC 61156-5:2009 (Ed. 2.0)
- EN 50173-1:2011
- EN 50173-2:2007 including amendment A1:2010
- EN 50288-10-1:2012
- ANSI/TIA-568-C.2:2009

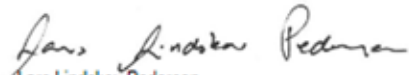
Standards for flammability, halogen acidity, and smoke performance

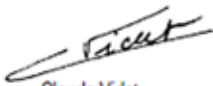
- IEC 60332-1-[1,2]:2004
- IEC 60754-[1,2]
- IEC 61034-[1,2]

Technical report DELTA-T207851, DANAK-19/13883	DELTA product ID 5503	CS valid until 4 March 2015
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This product has been tested by DELTA EC Cabling Group and complies with the requirements of the above specified standards and "Terms and conditions for the EC VERIFIED programme for Generic and Coaxial Cabling", DQP231006. The product takes part in a maintenance schedule, which implies that DELTA EC Cabling performs a quality audit of the manufacturer's production and QA sites. The maintenance testing of the product is performed on a sample basis.


Hersholm, 4 March 2014


 Lars Lindskov Pedersen
 Test Manager


 Claude Videt
 Project Manager

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C How to Order

LP-CA7G0VLC01 LanPro Performax ®, 48V, communication U/FTP Cable, Solid 100% copper, LSZH, violet color jacket, DELTA verified, ANSI/TIA/EIA-568-C.2, 1000 ft wood spool.