

# LanPro Shielded Network Cable CAT 6A U/FTP, CM rated.

LPCA710XXB\_SS\_ENB01W

## Features

- Specified and Tested to 500 MHz.
- Lower Bit Error Rates increases network efficiency and uptime.
- UL and ULc approved.
- 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.
- Available in gray and blue colors. Others upon request.
- 4 pairs 23 AWG TP.
- Cover Jacket: Flame retardant Comes standard, with CM, tough thermoplastic cover Jacket with a thickness of 0,48mm.
- Exceeds ISO/IEC 11801; ANSI/TIA/EIA-568-C.2, UL CM.
- Flame Rating: CM.
- Performax® CM is a robust product.
- Packaged in one convenient presentation: 1000 feet per box. Weight: 28lbs (12.5Kgs), easy-pull Boxes.
- Operating voltage  $\leq 48$  Vrms.
- Comply IEEE 802.3an (10G-BaseT) and 802.3af/at (PoE full power specs).



## LanPro Shielded Network Cable CAT 6A U/FTP, CM rated.

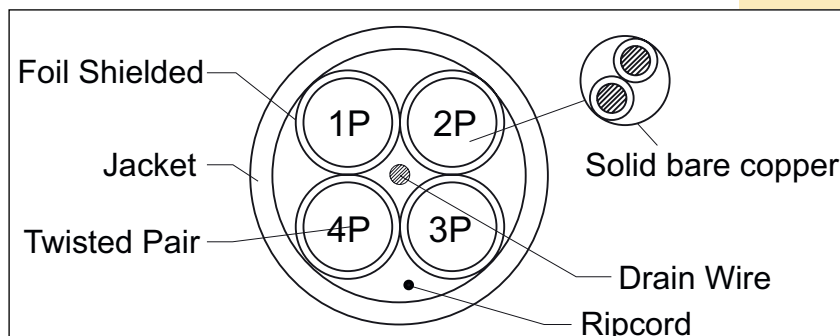
Performax® CAT 6A U/FTP CM rated cable is the answer given by LanPro to the 10 G channel demand imposed by today's high performance applications at reasonable prices. Tested to 500 MHz, the guaranteed performance of this cable meets the ANSI/TIA 568C.2 and ISO/IEC 11801 requirements, making it ideal for high-end transmission links supporting today's networking protocols.

Performax® CAT 6A CM rated cable is available for immediate delivery in gray and blue colors, other colors available under request.

## Applications

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

## A Specifications



### Construction Type

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

### 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 0.51mm (0.20 in.) (24 AWG) tinned copper drain wire.

### Rip Cord

For easy stripping.

### Cable Diameter

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

### Standards Compliant

ISO/IEC 11801; ANSI/TIA/EIA-568-C.2, UL CM, UL listed E329019.

### Physical Characteristics

Un-aged:

1. Tensile strength: Polyolefin 2400PSI, Jacket 2000PSI.
2. Elongation: Polyolefin 300% min. Jacket 100% min.

After Aging:

1. Tensile strength: Polyolefin 75%min. Jacket 85% min.
2. Elongation: Polyolefin 75%min. Jacket 50% min.

### Component

1. Conductor: AWG 23.
2. Insulators: Skin-Foam-Skin (Min. Thickness 0.153, Min. Avg. thickness 0.178).
3. Insulators Diameter:  $1.335 \pm 0.01$ mm.
4. Al-Mylar Tape: 65U\*12.5 mm.
5. Jacket: 75°C (Min. Thickness 0.58, Min. Avg. thickness 0.46).
6. Jacket Diameter:  $7.2 \pm 0.2$ mm.

**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/100M nom.
5. Pair to ground : 330pF/100m max.
6. Conductor DC resistance: 89 Ohm/km max. at 20°C.
7. DC Resistance Unbalance: 5% max.
8. Characteristic Impedance: 100±15 Ohm 1~500MHz.
9. Propagation Delay skew: 45ns/100m max. 1~500MHz.
10. Velocity of Propagation: 70%.

<b>FREQ</b>	<b>Insertion Loss</b>	<b>NEXT</b>	<b>RL</b>	<b>PSNEXT</b>	<b>ACRF</b>	<b>PSACRF</b>	<b>DELAY</b>
<b>MHz</b>	<b>(max. dB/100m)</b>	<b>(min. dB)</b>	<b>(min. dB at 20..)</b>	<b>(min. dB)</b>	<b>(min. dB)</b>	<b>(min. dB)</b>	<b>(max. ns at 20..)</b>
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

**B** How to Order

**LP-CA710BLB Performax® CAT 6A U/FTP Shielded Cable Solid 100% Copper CM Blue color Jacket 1000 ft box.**

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