

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

LPCA700XXB\_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 CAT6 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 CMX, tough thermoplastic cover Jacket with a thickness of 0,48mm.
- Exceeds ISO/IEC 11801; ANSI/TIA/EIA-568-C.2, UL CMX.
- Flame Rating: CMX.
- Performax® CMX is a robust product.
- Packaged in one convenient presentation: 1000 feet per box. Weight: 28lbs (12.5Kgs), easy-pull Boxes.
- UL listed E329019.
- 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, CMX rated.

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

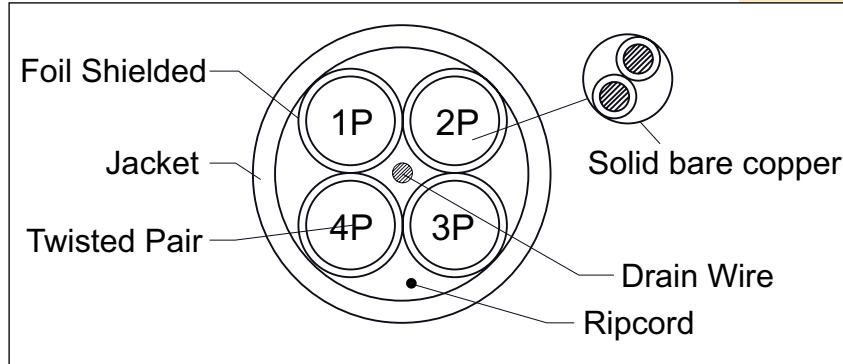
### Important note:

LanPro CAT 6A Performax® CMX rated cable is intended for use in residential applications whose main duty in case of fire in to avoid its propagation along horizontal cabling installations. The chemicals used to produce such stopping of fire propagation needs substances that have high quantities of halides. CMX cables when taking fire, generate fumes that contain these halides. LanPro recommends to be cautious about the use of CMX in public places.

## 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 CMX.

### 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 CMX, 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:  $1.335 \pm 0.01\text{mm}$ .
4. Al-Mylar Tape: 65U\*12.5 mm.
5. Jacket: 75°C (Min. Thickness 0.58, Min. Avg. thickness 0.46).
6. Jacket Diameter:  $7.2 \pm 0.2\text{mm}$ .

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

### ● Electric Characteristics

1. Operating voltage:  $\leq 48$  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%.

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)	(max. ns at 20..)
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-CA700GRB Performax® CAT 6A U/FTP Shielded Cable Solid 100% Copper CMX Gray color Jacket 1000 ft box.**

**LP-CA700BLB Performax® CAT 6A U/FTP Shielded Cable Solid 100% Copper CMX Blue color Jacket 1000 ft box.**

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