

**LP-C6F10GRB LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CM-rated with Stranded 100% Copper Conductors AWG 24 and Gray jacket in 1000 ft (305m) REELEX II® Easy Pull-Box.**

LPC6F10GRB\_SS\_ENB01W

**Features**

- Very Flexible.
- Superior performance to traditional designs.
- 568-A and 568-B compatible.
- Exceeds ANSI/TIA-568-C.2, ISO/IEC 11801, UL 1685 (UL 1581, Sec. 1160) Vertical-Tray, CSA FT1 requirements.
- Rugged Construction.
- Ripcord included.
- Backward compatible with CAT 5e and CAT 5 systems.
- Excellent price/performance ratio.
- Gray color jacket.
- Four (4) AWG 24 Twisted Pairs.
- Flame rating: CM thermoplastic cover Jacket with a thickness of 0.55 mm.
- Reliable 6® is a robust product.
- Packaged in one convenient presentation: 1000 feet (305m) in a REELEX II® easy-pull Box.
- Operating voltage: <48 Vrms.
- UL E329019.



**LP-C6F10GRB LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CM-rated with Stranded 100% Copper Conductors AWG 24 and Gray jacket in 1000 ft (305m) REELEX II® Easy Pull-Box.**

The LP-C6F10GRB LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CM-rated with Stranded 100% Copper Conductors AWG 24 and gray jacket in 1000 ft (305m) REELEX II® Easy-Pull Box is the answer given by LanPro to the large demand imposed by today's high performance applications at reasonable prices.

Tested to well over 250 MHz, the guaranteed performance of this cable meets the ANSI/TIA-568-C.2, ISO/IEC 11801, UL 1685 (UL 1581, Sec. 1160) Vertical-Tray, CSA FT1 requirements, UL registered E329019, making it ideal for transmission links supporting today's networking protocols.

UL certified for CM commercial applications, the unshielded LanPro Reliable® CAT 6 U/UTP Network Cable is available for immediate delivery in gray color, other colors available under request.

**A Applications**

Unshielded LanPro Reliable® CAT 6 U/UTP Network CM-rated is intended for 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.

**Important Note:**

Unshielded LanPro Reliable® CAT 6 U/UTP Network CM-rated belongs to a class of General Purpose cables, and may be used anywhere in commercial buildings other than areas where Riser or Plenum cables are required. The cables are flame tested and held to a lower standard than either Riser or Plenum cables. The chemicals used to produce such stopping of fire propagation need substances that have high quantities of halides.

When taking fire, CM cables generate fumes that contain these halides which react with water present in the environment and producing hydrochloric acid, a very irritant mist that produces suffocation when inhaled. LanPro recommends caution on the use of CM in public places.

**B Technical Specifications**

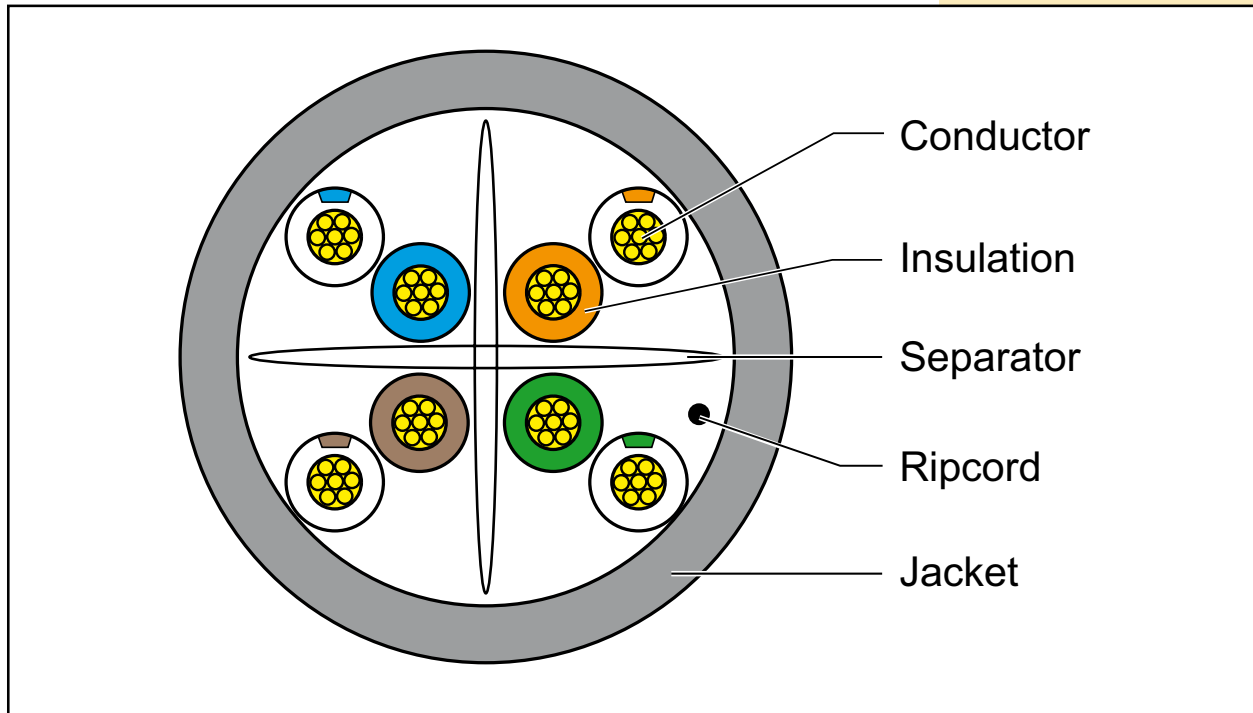
<b>Standards</b>	ISO/IEC11801, TIA/EIA 568.C-2, UL 1685 (UL 1581, Sec. 1160)			
<b>Conductor</b>	Material	Copper 100%		
	AWG #	24		
	Nominal Diameter (mm)	7/0.20	Positive tolerance	+0.005
			Negative tolerance	-0.005
<b>Isolation layer</b>	Material	HDPE (High Density Polyethylene)		
	Diameter (mm)	0.99±0.05		
	Color	A - Blue, White-Blue B - Orange, White-Orange C - Green, White-Green D - Brown, White-Brown		
<b>Ripcord</b>	Yes			
<b>Drain wire</b>	None			
<b>Jacket</b>	Thickness	0.55±0.05 mm		
	External diameter (O.D.)	6.1±0.4 mm		
	Surface finish	Clean, FRAP, Satiation		
	Material	CM Rated, complies RoHS		
	Color	Gray		
<b>Markings</b>	Type height	3.0±0.3 mm		
	Color	Black		
	Print error & space	≤ ±0.5%, 1m		
<b>Packaging</b>	REELEX II® type Carton, Pallet			
	Product length	305 ± 1.5 m		
	Carton Dimensions	41 cm x 41 cm x 21cm		
<b>Physical properties</b>	Temperature Range	-20°C to 75°C		

**B Technical Specifications**

<b>Mechanical characteristics</b>	Tensile strength before Aging (Mpa)	≥13.5
	Elongation before aging (%)	≥150
	Aging Period (°C x hours)	100°C x 24 h x 7d
	Tensile strength after Aging (Mpa)	≥12.5
	Elongation after aging (%)	≥125
	Cold Bend (-20±2°Cx4h)	No visible cracks
	Bending Radius	8 x external Dia. during install
4 x external Dia. afterwards		
<b>Electrical Properties (20°C)</b>	Zo (1.0 – 250.0 MHz)	100 ±15 Ohm
	Delay skew @20°C (1.0 – 250.0 MHz)	≤ 45 ns/100m
	Maximum DC Resistance @ (20°C)	9.38 Ohm/100 m
	% Resistance unbalance between conductors (Max)	5 %

**C Technical Performance (100m)**

Frec. (MHz)	RL > dB	ATT ≤ dB	NEXT ≥ dB	DELAY ≤ ns	PSNEXT > dB	ELFEXT > dB	PSELFEXT ≥ dB
1	20.0	2.4	74.3	570.00	72.3	67.8	64.8
4	23.0	4.6	65.3	552.00	63.3	55.8	52.8
8	24.5	6.4	60.8	546.73	48.8	49.7	46.7
10	25.0	7.2	59.3	545.38	57.3	47.8	44.8
16	25.0	7.5	56.2	543.00	54.2	43.7	40.7
20	25.0	9.1	54.8	542.05	52.8	41.8	38.8
25	24.3	11.4	53.3	541.20	41.3	39.8	36.8
31.25	23.6	12.9	51.9	540.44	49.9	37.9	34.9
62.5	21.5	18.5	47.4	538.55	45.4	31.9	28.9
100	20.7	23.8	44.3	537.60	42.3	27.8	24.8
200	16.4	34.7	39.8	536.64	37.8	21.8	18.8
250	15.6	39.3	38.3	536.27	36.3	19.8	16.8

**D Structure:****E How to Order:**

**LP-C6F10GRB LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CM-rated with Stranded 100% Copper Conductors AWG 24 and gray jacket in 1000 ft (305m) REELEX II® Easy Pull-Box.**