LP-C6E10GRB LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CM rated with Solid 100% Copper Conductors, 0.54mm Nominal Diameter and Flexible-X™ Nylon core for symmetry and gray jacket in 1000 ft (305m) Easy Pull-Box.

LPC6E10GRB_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, 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) Twisted Pairs, Nominal Diameter 0.54mm.
- 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 Easy Pull-Box.
- The Geometry is better with Flexible-X[™] technology.
- Operating voltage: <48 Vrms.</p>
- ETL No. 105118692CRT-001a.





LP-C6E10GRB

LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CM rated with Solid 100% Copper Conductors, 0.54mm Nominal Diameter and Flexible-X™ Nylon core for symmetry and gray jacket in 1000 ft (305m) Easy Pull-Box.

The LP-C6E10GRB LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, CM rated with Solid 100% Copper Conductors, 0.54mm Nominal Diameter with Flexible- X^{TM} Nylon core for symmetry and gray jacket in 1000 ft (305m) 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,CSA FT1 requirements, ETL registered No. 105118692CRT-001a, making it ideal for transmission links supporting today's networking protocols.

ETL 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. Now with "Flexible-X™" construction, Reliable® CAT 6 cable isolates and arranges the pairs throughout the length of the cable, improving field installation as well as performance.

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.



B Technical Specifications

Standards	ISO/IEC11801, TIA/EIA 568.C-2, ETL No. 105118692	2CRT-001a					
	Material	100% Cooper					
1 Conductor	Nominal Diameter (mm)	0.540	Positive tolerance	+ 2%			
			tolerance	- 2%			
	Material	HDPE (High Density Pol	yethylene)				
2 Isolation layer	Diameter (mm)	0.98±0.03					
2. Isolation layer	Color	A-Blue, White-Blue B-Orange, White-Orange					
	3.3	C-Green, White-Green	D-Brown, Whi	te-Brown			
3 Ripcord	Yes						
4 Separator	Flexible -X™						
5 Drain wire	None						
	Thickness	0.55±0.05 mm					
	External diameter (O.D.)	6.0±0.4 mm					
6 Jacket	Surface finish	Clean, FRAP, Satinized					
	Material	CM Rated, complies RoHS					
	Color	gray	nplies RoHS				
	Type height	3.0±0.3 mm					
7 Markings	Color	Black					
	Print error & space	≤ ±0.5%, 1m	≤ ±0.5%, 1m				
	Easy Pull-Box type Carton, Pallet						
8 Packaging	Product length	305 ± 1.5 m					
	Carton Dimensions	40.5cm x 40.5cm x 21cm					
9 Physical properties	Temperature Range	-20°C to 75°C					
	Tensile strength before Aging (Mpa)	≥13.5					
	Elongation before aging (%)	≤150					
	Aging Period (°C x hours)	100°C x 24 h x 7d					
10 Mechanical	Tensile strength after Aging (Mpa)	≥12.5					
characteristics	Elongation after aging (%)	≥125					
	Cold Bend (-20±2°Cx4h)	No visible cracks					
		8x external Dia. during	install				
	Bending Radius	4x external Dia. afterwa	ards				
	Zo (1.0 – 250.0 MHz)	100 ±15 Ohm					
11 Electrical	Delay skew @20°C (1.0 - 250.0 MHz)	≤ 45 ns/100m					
Properties (20°C)	Maximum DC Resistance @ (20°C)	9.5 Ohm/100 m					

322 ft

100

80

20

Certification





Cable ID: TIA-0001

Date / Time: 09/03/2016 01:24:00 PM Headroom 2.7 dB (NEXT 36-78) **Test Limit: Cat 6 Chan** Cable Type: LanProCat6-New

Operator: LanPro America Software Version: V06.12

80

40 20

50

100

MHz

150

200

250

NVP: 65.0%

Test Summary: PASS

Model: OMNIScanner2 Main S/N: 50D04C00038 Remote S/N: 50E04C00019 Main Adapter: PM06 Remote Adapter: PM06

Wire Map		Expected	Actual
PASS	omni:	12345678	12345678
	rem.:	12345678	12345678
Length (ft), Limit 328 Prop. Delay (ns), Lin Delay Skew (ns), Lin Resistance (ohms)	nit 555	[Pair 78] [Pair 36] [Pair 36]	322 521 17 N/A
Insertion Loss Margi Frequency (MHz) Limit (dB)	n (dB)	[Pair 45] [Pair 45] [Pair 45]	1.3 247.0 35.7

60	Ins	ertion l	_oss (d	B)	
50					
40					
30				_	
20					
10					
10					
0	50	100	150	200	250

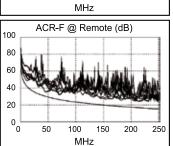
	Worst Case	e Margin	Worst Ca	ase Value
PASS	MAIN	SR	MAIN	SR
Worst Pair	45-78	36-78		
NEXT (dB)	4.1	2.7		
Freq. (MHz)	186.3	151.6		
Limit (dB)	35.4	36.8		
Worst Pair	78	78		
PS NEXT (dB	5.4	4.7		
Freq. (MHz)	121.9	151.6		
Limit (dB)	35.6	34.0		

PASS	MAIN	SR	MAIN	SR
Worst Pair	45-78	36-78		
NEXT (dB)	4.1	2.7		
Freq. (MHz)	186.3	151.6		
Limit (dB)	35.4	36.8		
Worst Pair	78	78		
PS NEXT (dB)	5.4	4.7		
Freq. (MHz)	121.9	151.6		
Limit (dB)	35.6	34.0		

Littil (GD)	55.0	J T .U		
PASS	MAIN	SR	MAIN	SR
Worst Pair	45-12	12-45		
ACR-F (dB)	4.8	4.8		
Freq. (MHz)	45.5	45.5		
Limit (dB)	30.2	30.2		
Worst Pair	12	12		
PS ACR-F (dB)	7.0	6.4		
Freq. (MHz)	70.9	68.7		
Limit (dB)	23.2	23.6		

100		ACR-F	(dB)			1
80						
60	Dul.	4.1	ull-a	set .		
40	(notes			MAL A	W	
20			~	400	OF THE	
0) 5	0 100	150	200	250	
		MH			_00	L

RL (dB)

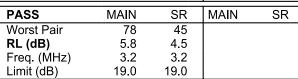


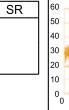
100

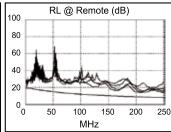
150

200

NEXT @ Remote (dB)







Compliant Network Standards:

100BASE-TX 10BASE-T 1000BASE-T ATM-25 ATM-155 100VG-AnyLan TR-16 Active TR-16 Passive

100BASE-T4 ATM-51

LinkWare™ PC Version 9.3





50

100

MHz

150

200

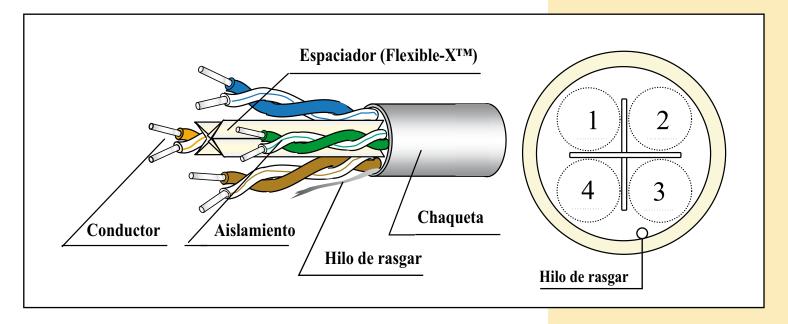
250



Certification Characteristics

Freq.(MHz)	RL >dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	PSNEXT >dB	ELFEXT >dB	PSELFEXT ≥dB
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4	23.0	3.78	65.3	552.00	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	541.20	51.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18	28.98	39.8	536.64	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8

Structure



How to order

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