LP-C6MR0XXB LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, LSZH-rated Level 3, with Solid 100% Copper Conductors AWG 24 and Flexible-X™ Nylon core for symmetry in 1000 ft (305m) Easy Pull-Box.

LPC6MR0XXB_SS_ENB01W

Features

- Ultra Flexible.

- Superior performance to traditional designs.

- 568-A and 568-B compatible.

- Exceeds ANSI/TIA-568-C.2, ISO/IEC 11801, IEC 60332-3. Vertical-Tray, CSA FT1 requirements.

- Rugged Construction.

- RipCord included.

- Backward compatible with CAT 5e and CAT 5 systems.

- Excellent price/performance ratio.

- Four (4) AWG 24 Twisted Pairs.

- Flame rating: LSZH Level 3 thermoplastic cover Jacket with a thickness of 0.55 mm.

- Reliable 6® is a robust product.

- Packaged in one convenient presentation: 1000 feet (305m) Easy-pull Box.

- The Geometry is better with Flexible-X™ technology.

- Operating voltage: <48 Vrms.

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Tested to well over 250 MHz, the guaranteed performance of this cable meets the ANSI/TIA-568-C.2, ISO/IEC 11801, IEC 60332-3, CSA FT1 requirements, making it ideal for transmission links supporting today's networking protocols.

The unshielded LanPro Reliable® CAT 6 U/UTP Network Cable is available for immediate delivery in blue, gray and violet 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 LSZH-rated Level 3, 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.

A Technical Specifications

Conductor	Material	Copper 100%			
	AWG #	24			
	Nominal Diameter (mm)	0.50	Positive tolerance	+0.005	
			Negative tolerance	-0.005	
Insulation	Material	HDPE (High Density Polyethylene)			
	Diameter (mm)	0.88±0.05			
	Color	A - Blue, White-Blue B - Orange, White-Orange C - Green, White-Green D - Brown, White-Brown			
Ripcord	Yes				
Separator	Flexible-X™				
Drain wire	None				
Jacket	Thickness	0.55±0.05 mm			
	External diameter (O.D.)	5.5±0.4 mm			
	Surface finish	Clean, FRAP, Satination			
	Material	LSZH Rated Level 3, complies RoHS			
	Color	Blue, Gray and Violet other colors under request			
Markings	Type height	3.0±0.3 mm			
	Color	Black			
	Print error & space	≤ ±0.5%, 1m			
Packaging	Wooden Tray & Carton				
	Product length	305 ± 1.5 m			
	Carton Dimensions	According to the requires			
Physical properties	Temperature Range	-20°C to 75°C			
Mechanical characteristics	Tensile strength before Aging (Mpa)	≥13.5			
	Elongation before aging (%)	≥150			
	Aging Period (ºC x hours)	100ºC x 24 h x 7d			
	Tensile strength after Aging (Mpa)	≥12.5			
	Elongation after aging (%)	≥125			
	Cold Bend (-20±2ºCx4h)	No visible cracks			
	Bending Radius	8x external Dia. during install			
Electrical Properties (20ºC	Impedance (1.0 – 250.0 MHz)	100 ±15 Ohm			
	Delay skew @20ºC (1.0 – 250.0 MHz)	≤ 45 ns/100m			
	Maximum DC Resistance @ (20°C)	9.5 Ohm/100 m			
	% Resistance unbalance between conductors (Max)	5 %			

B Certification

LINKWARE™ PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: LANPRO-CAT6 24AWGG   **Test Summary: PASS**

Date / Time: 08/13/2018 02:18:29 PM   Operator: LANPRO NETWORKS   Model: DTX-1800
Headroom 3.7 dB (NEXT 12-36)   Software Version: 2.7800   Main S/N: 9514069
Test Limit: TIA Cat 6 Perm. Link   Limits Version: 1.9500   Remote S/N: 9514070
Cable Type: Cat 6 U/UTP   NVP: 69.0%   Main Adapter: DTX-PLA002
Calibration Date: 06/28/2018   Remote Adapter: DTX-PLA002

Length (ft), Limit 295	[Pair 45]	274
Prop. Delay (ns), Limit 498	[Pair 12]	420
Delay Skew (ns), Limit 44	[Pair 12]	17
Resistance (ohms)	[Pair 12]	15.3
Insertion Loss Margin (dB)	[Pair 12]	2.5
Frequency (MHz)	[Pair 12]	249.5
Limit (dB)	[Pair 12]	31.1

Wire Map (T568B)
PASS

274 ft
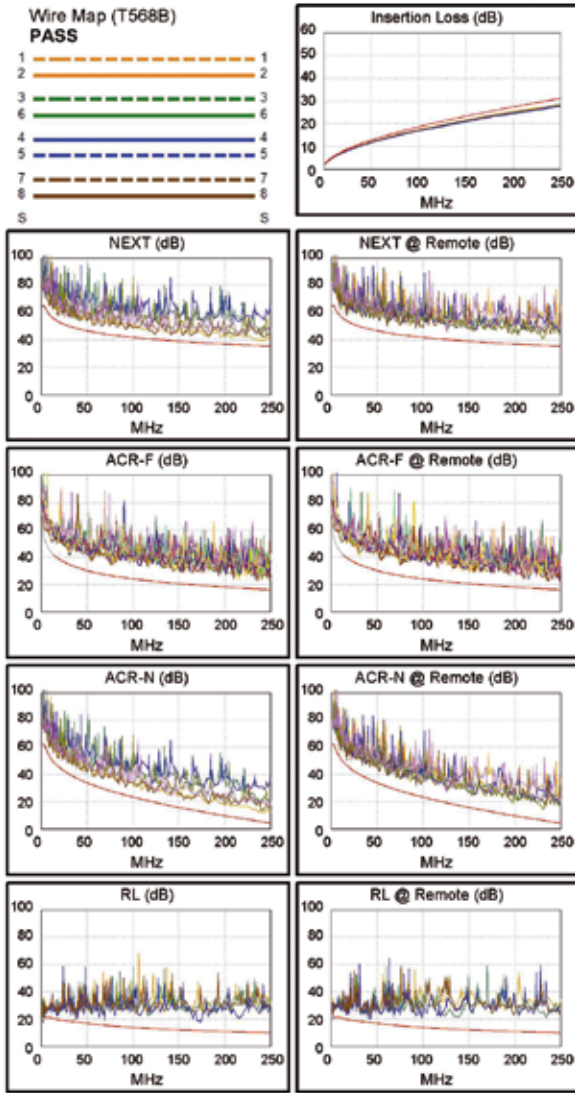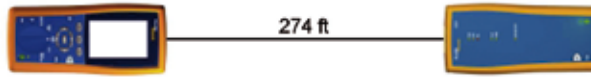
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-78	12-36	36-78
NEXT (dB)	3.7	4.8	3.7	4.8
Freq. (MHz)	240.5	230.5	240.5	230.5
Limit (dB)	35.6	35.9	35.6	35.9
Worst Pair	36	45	36	36
PS NEXT (dB)	3.4	5.5	3.4	6.6
Freq. (MHz)	240.0	61.3	240.0	230.5
Limit (dB)	33.0	42.8	33.0	33.3
PASS	MAIN	SR	MAIN	SR
Worst Pair	45-36	45-36	45-36	45-36
ACR-F (dB)	5.9	6.2	5.9	6.2
Freq. (MHz)	235.0	249.0	235.0	249.0
Limit (dB)	16.8	16.3	16.8	16.3
Worst Pair	78	36	78	36
PS ACR-F (dB)	8.1	7.8	8.2	7.8
Freq. (MHz)	219.5	249.0	248.0	249.0
Limit (dB)	14.4	13.3	13.3	13.3
N/A	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	12-36	36-78
ACR-N (dB)	5.5	6.0	6.8	7.8
Freq. (MHz)	18.4	16.9	243.5	230.5
Limit (dB)	46.1	47.0	4.9	6.2
Worst Pair	36	45	36	36
PS ACR-N (dB)	5.7	6.7	7.0	9.6
Freq. (MHz)	17.3	61.3	243.5	230.5
Limit (dB)	44.4	28.6	2.3	3.6
PASS	MAIN	SR	MAIN	SR
Worst Pair	45	45	45	45
RL (dB)	2.5	2.6	6.3	2.6
Freq. (MHz)	17.0	42.8	173.0	42.8
Limit (dB)	19.8	17.7	11.6	17.7

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

Insertion Loss (dB)
NEXT (dB)
NEXT @ Remote (dB)
ACR-F (dB)
ACR-F @ Remote (dB)
ACR-N (dB)
ACR-N @ Remote (dB)
RL (dB)
RL @ Remote (dB)

LinkWare™ PC Version 9.3

Project: LANPRO TESTING   Site: LANPRO LABS
Untitled1

FLUKE networks.

C Certification Characteristics

Freq.(MHz)	RL > dB	ATT ≤dB	NEXT ≥dB	Retraso ≤ns	PSNEXT > dB	ELFEXT > dB	PSELFEXT ≥ dB
1	19.1	3.0	65.0	570.0	62.0	64.2	61.2
4	21.0	3.5	64.1	552.0	61.8	52.1	49.1
8	21.0	5.0	59.4	546.7	57.0	46.1	43.1
10	21.0	5.5	57.8	545.4	55.5	44.2	41.2
16	20.0	7.0	54.6	543.0	52.2	40.1	37.1
20	19.5	7.9	53.1	542.1	50.7	38.2	35.2
25	19.0	8.9	51.5	541.2	49.1	36.2	33.2
31.25	18.5	10.0	50.0	540.4	47.5	34.3	31.3
62.5	16.0	14.4	45.1	538.6	42.7	28.3	25.3
100	14.0	18.6	41.8	537.6	39.3	24.2	21.2
200	11.0	27.4	36.9	536.5	34.3	18.2	15.2
250	10.0	31.1	35.3	536.3	32.7	16.2	13.2

D Structure

White-Blue/ Blue

White-Orange / Orange

Separator

Sheath

Rip-corp

White-Brown / Brown

White-Green / Green
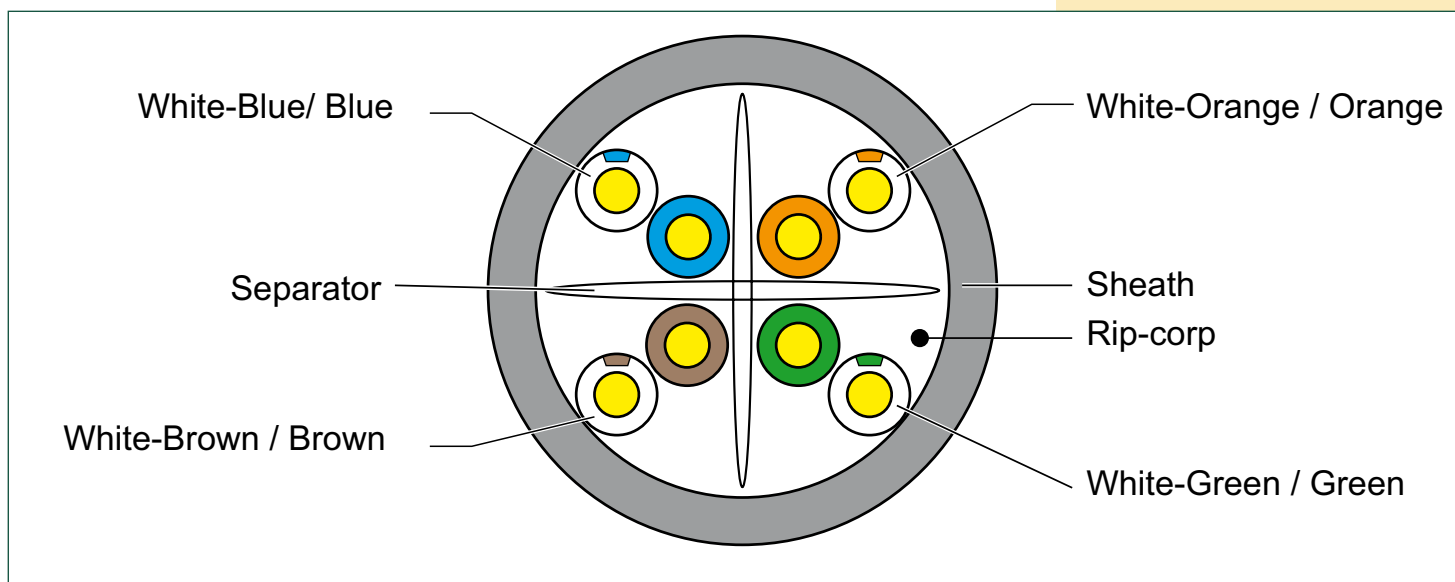
E How to order

LP-C6MR0BLB   LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, LSZH-rated Level 3, with Solid 100% Copper Conductors AWG 24 and Flexible-X™ Nylon core for symmetry and blue jacket in 1000 ft (305m) Easy Pull-Box.

LP-C6MRJ0VLB   LanPro Reliable® Unshielded CAT 6 U/UTP Network Cable, LSZH-rated Level 3, with Solid 100% Copper Conductors AWG 24 and Flexible-X™ Nylon core for symmetry and violet jacket in 1000 ft (305m) Easy Pull-Box.

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