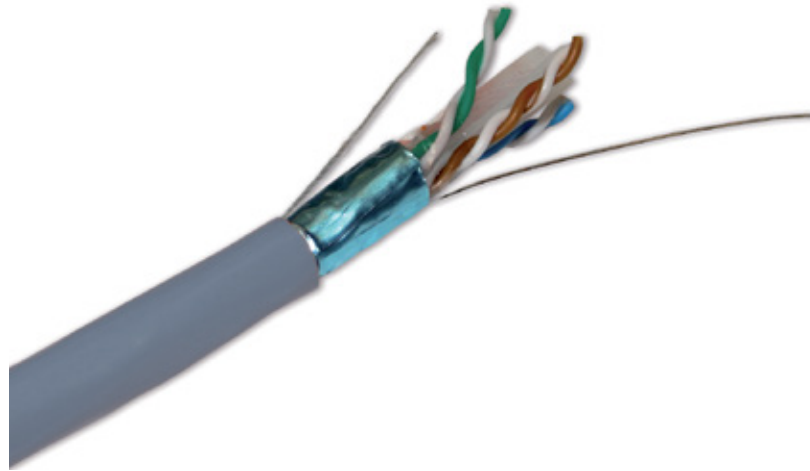


**LP-C6320GRC LanPro Reliable® CAT 6 type F/UTP Shielded Network Cable, CMR-rated with Solid Copper Conductors and Flexible-X™ separator for symmetry and Gray jacket in 1000 ft (305 m) wood spool.**

LPC6320GRC\_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, UL444, UL166 requirements.
- Shielded F/UTP.
- Rip Cord included.
- Drain Wire included.
- Backward compatible with CAT 5e and CAT 5 systems.
- Excellent price/performance ratio.
- Gray color jacket.
- Four (4) 23 AWG Twisted Pairs.
- Flame rating: CMR thermoplastic cover Jacket with a thickness of 0.60 mm.
- Reliable™ CAT 6 is a robust product.
- Packaged in one convenient presentation: 1000 feet (305 m) wood spool.
- Weight: 32 lb (14.5 Kg).
- The Geometry is better with Flexible-X™ technology.
- Operating voltage: ≤48 Vrms.
- UL E329019.



**LP-C6320GRC  
LanPro Reliable® CAT 6 type F/UTP Shielded Network Cable,  
CMR-rated with Solid Copper Conductors and Flexible-X™  
separator for symmetry and Gray jacket in 1000 ft (305 m)  
wood spool.**

Gray colored jacket shielded LanPro Reliable® CAT 6 F/UTP Network CMR-rated general purpose Cable is the answer given by LanPro to the 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, UL444 and UL1666 requirements, UL registered E329019, making it ideal for transmission links supporting today's networking protocols.

### A Applications:

Shielded LanPro Reliable® CAT 6 **LP-C6320GRC** F/UTP Network CMR-rated is intended for high speed data applications, including 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 and 100BASE-TX and 4/16 Mb/s Token Ring used for vertical riser applications that require routing cables in floor to floor in buildings.

#### IMPORTANT NOTE:

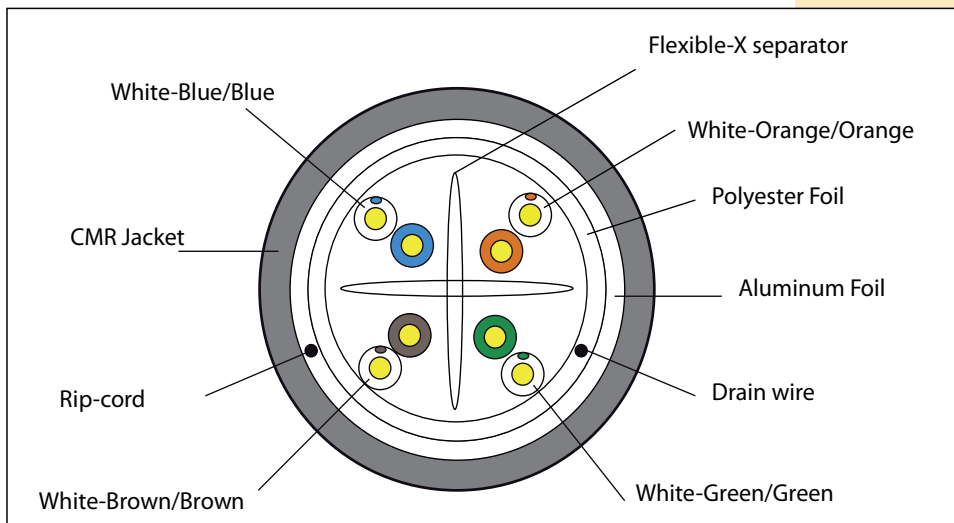
Shielded LanPro Reliable® **LP-C6320GRC** CAT 6 F/UTP Network CMR-rated are intended for use in riser applications whose main duty in case of fire is to avoid its propagation to upper floors in commercial buildings or residential complexes. The chemicals used to produce such stopping of fire propagation need substances that have high quantities of halides.

When taking fire, CMR 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 CMR in public places.

**B Technical Specifications:**

Standards	ISO/IEC11801, TIA/EIA 568.2, EN 50173, UL444, UL1666 UL approved E329019.		
1.- Conductor	Material	Copper 100%	
	AWG #	23	
	Nominal Diameter (mm)	0.570	Positive tolerance
Negative tolerance			-0.005
2.- Isolation layer	Material	HDPE (High Density Polyethylene)	
	Diameter (mm)	1.09 ± 0.03	
	Elongation	Min. 300%	
	Color	A-Blue, White-Blue	B-Orange, White-Orange
C-Green, White-Green		D-Brown, White-Brown	
3.- Rip Cord	Yes		
4.- Separator	Flexible -X™		
5.- Drain Wire	None		
6.- Jacket	Thickness	0.60 ± 0.05 mm	
	External Diameter, (O.D.)	7.4 ± 0.4 mm	
	Surface finish	Clean, Satinized	
	Material	CMR, complies RoHS	
	Color	Gray	
7.- Markings	Type height	3.0 ± 0.3 mm	
	Color	Black	
	Print error & Space	≤ ± 0.5%, 1m	
8.- Packaging	Wood spool.		
	Product length	305 ± 1.5 m	
	Weight	32lb (14.5Kg)	
9.- Physical properties	Temperature Range	-20 °C to 75 °C	
10.- Mechanical Characteristics	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 °C x 4h)	No visible cracks	
	Bending Radius	8 x external Dia. during install,	
4 x external Dia afterwards			
11.- Electrical properties @ 20 °C	Isolation resistance @ 500 V	Min 5000 MOhm/Km	
	Zo (1.0 – 250.0 MHz)	100 ± 15 Ω	
	Delay skew @20 °C (1.0 – 250.0 MHz)	≤ 45 (ns/100m)	
	Propagation Velocity (%C)	69%	
	Mutual capacitance	5.6 nF max/100 m	
	Capacitance imbalance	330 nF max/100 m	
	Maximum DC Resistance @ (20 °C)	9.38 Ω/100 m	
	Delay [ns/100m] @250 MHz	536 ns	
	% Resistance unbalance between conductors(Max)	5 %	
	Maximum Operating RMS AC Voltage	≤ 48	
	Peak Operating Voltage (DC)	≤ 68 V	
(DC) Test Voltage (1 minute)	1.0 KV/ 1 minute		

**C Structure:**



**D 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	41.3	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	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8

**E How to Order:**

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