#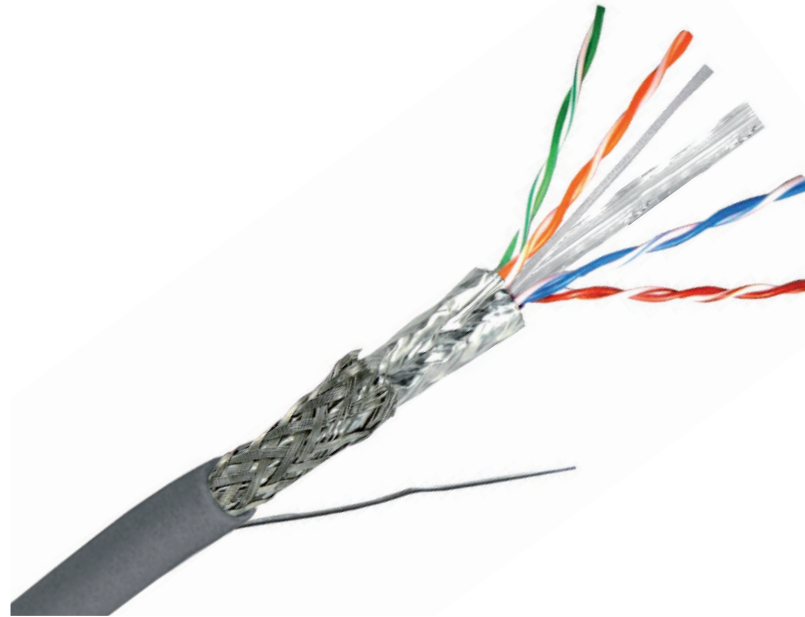 LP-C6I10GRC LanPro Reliable® Shielded CAT 6 SF/UTP Network Cable, CM-rated with Stranded 100% Copper Conductors AWG 26 and Gray jacket in 1000 ft. (305m) wood spool

LPC6I10GRC_SS_ENB01W

Features

- ETL verified to TIA/EIA 568B CAT 6.

- ETL approved 4003289.

- 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 26 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) wood spool.

- Operating voltage: <48 Vrms.

- UL E329019.

LP-C6I10GRC
LanPro Reliable® Shielded CAT 6 SF/UTP Network Cable, CM-rated with Stranded 100% Copper Conductors AWG 26 and Gray jacket in 1000 ft. (305m) wood spool

The LP-C6I10GRC LanPro Reliable® Shielded CAT 6 SF/UTP Network Cable, CM-rated with Stranded 100% Copper Conductors AWG 26 and gray jacket in 1000 ft. (305m) wood spool 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.

Reliable® CAT 6 is ETL approved 4003289.

A Applications

Shielded LanPro Reliable® CAT 6 SF/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:
Shielded LanPro Reliable® CAT 6 SF/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

Standards	ISO/IEC11801, TIA/EIA 568.C-2, UL 1685 (UL 1581, Sec. 1160), ETL approved 4003289		
Conductor	Material	Copper 100%	
	AWG #	26 (7/0.16)	
Isolation layer	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	
Inner screening material	Aluminum Foil	**Drain Wire**	TC 7/0.16mm
Outer screening material	Tinned copper 0.10mm	**Coverage**	≥40%
Ripcord	Yes		
Jacket	Thickness	0.55±0.05 mm	
	External diameter (O.D.)	6.5±0.5 mm	
	Surface finish	Clean, FRAP, Satiation	
	Material	CM Rated, complies RoHS	
	Color	Gray	
Markings	Type height	3.0±0.3 mm	
	Color	Black	
	Print error & space	≤ ±0.5%, 1m	
Packaging	Wood spool		
	Product length	305 ± 1.5 m	
Physical properties	Temperature Range	-20°C to 75°C	

B   Technical Specifications

Temperature Range	Tensile strength before Aging (Mpa)	≥10.0
	Elongation before aging (%)	≥125
	Aging Period (ºC x hours)	100ºC x 24 h x 7d
	Tensile strength after Aging (Mpa)	≥8.0
	Elongation after aging (%)	≥100
	Cold Bend (-20±2ºCx4h)	No visible cracks
	Bending Radius	8x external Dia. during install
		4x external Dia. afterwards
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)	14.7 Ohm/100 m
	% Resistance unbalance between conductors (Max)	5 %

C   Technical Performance (100m)

Freq.(MHz)	RL > dB	ATT ≤ dB	NEXT ≥ dB	DELAY ≤ ns	PSNEXT > dB	ELFEXT > dB	PSELFEXT ≥ dB
1	19.1	3.0	65.0	498	62.0	64.2	61.2
4	21.0	3.5	64.1	498	61.8	52.1	49.1
8	21.0	5.0	59.4	498	57.0	46.1	43.1
10	21.0	5.5	57.8	498	55.5	44.2	41.2
16	20.0	7.0	54.6	498	52.2	40.1	37.1
20	19.5	7.9	53.1	498	50.7	38.2	35.2
25	19.0	8.9	51.5	498	49.1	36.2	33.2
31.25	18.5	10.0	50.0	498	47.5	34.3	31.3
62.5	16.0	14.4	45.1	498	42.7	28.3	25.3
100	14.0	18.6	41.8	498	39.3	24.2	21.2
200	11.0	27.4	36.9	498	34.3	18.2	15.2
250	10.0	31.1	35.3	498	32.7	16.2	13.2

D Structure

White-Blue/Blue

Jacket

Ripcord

Separator

White-Brown/Brown

White-Orange/Orange

PET

Aluminium Foil

Braid

Drain wire

White-Green/Green
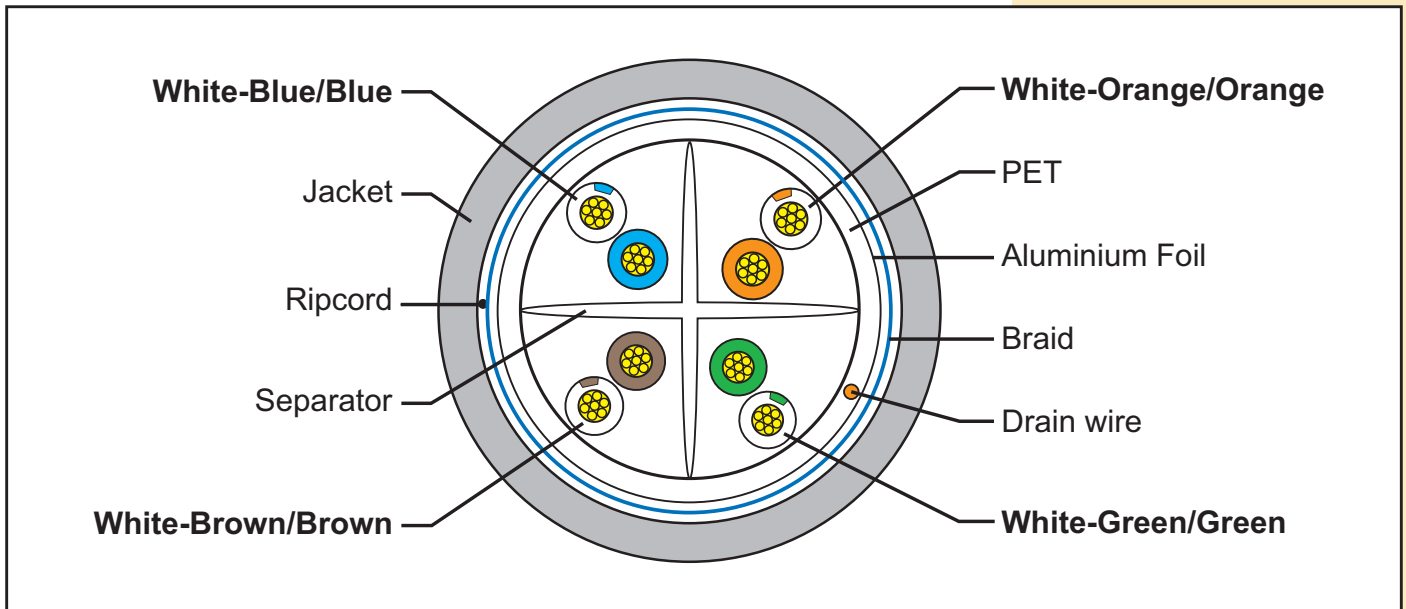
E How to order

LP-C6I10GRC **LanPro Reliable® Shielded CAT 6 SF/UTP Network Cable, CM-rated with Stranded 100% Copper Conductors AWG 26 and Gray jacket in 1000 ft (305m) wood spool.**