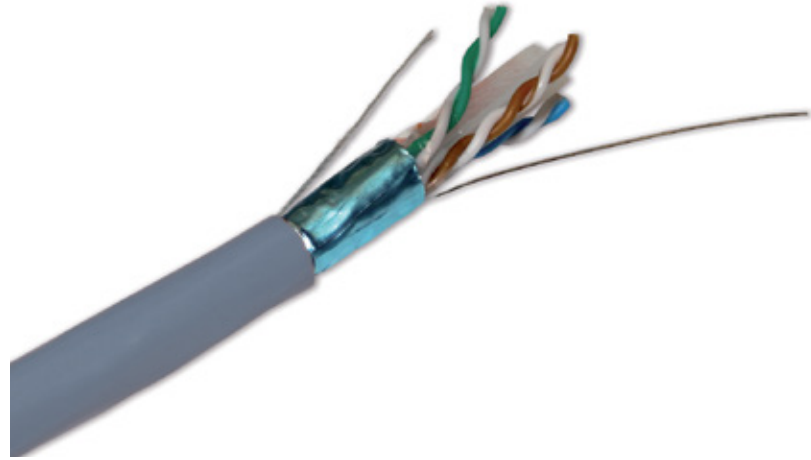


**LP-C63J0GRC LanPro Reliable® CAT 6 type F/UTP Shielded Network Cable, LSZH-rated with Solid Copper Conductors and Flexible-X™ separator for symmetry and Gray jacket in 1000 ft (305m) wood spool.**

LPC63J0GRC\_SS\_ENB01W

### Applications

- Very Flexible.
- Superior performance to traditional designs.
- 568-A and 568-B compatible.
- Exceeds ANSI/TIA-568-C.2, ISO/IEC 11801, IEC 60332-1C 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: LSZH thermoplastic cover Jacket with a thickness of 0.60mm.
- Reliable™ CAT 6 is a robust product.
- Packaged in one convenient presentation: 1000 feet (305m) wood spool.
- Weight: 32lb (14.5Kg).
- The Geometry is better with Flexible-X™ technology.
- Operating voltage: <48 Vrms.
- DELTA No. 2017-370.



### LP-C63J0GRC

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

Gray colored jacket shielded LanPro Reliable® CAT 6 F/UTP Network LSZH-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, IEC 60332-1C requirements, DELTA No. 2017-370 making it ideal for transmission links supporting today's networking protocols.

### A Applications:

Shielded LanPro Reliable® CAT 6 **LP-C63J0GRC** F/UTP Network LSZH-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.

#### IMPORTANT NOTE:

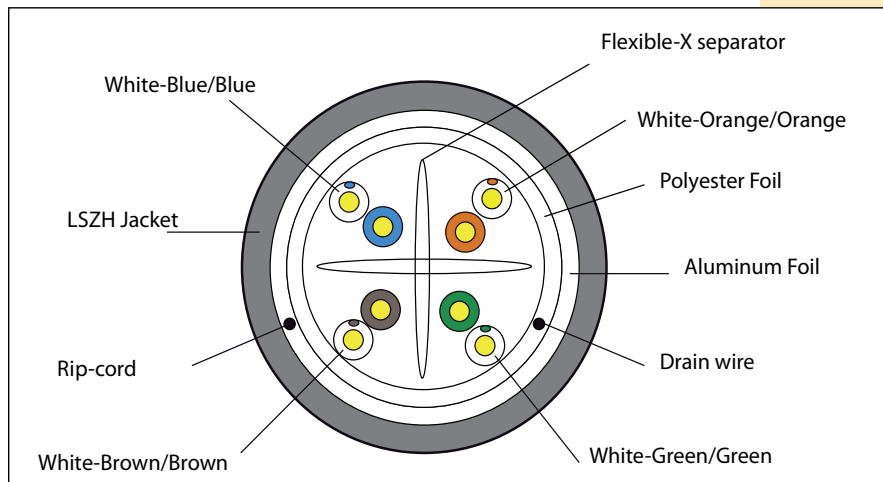
Shielded LanPro Reliable® **LP-C63J0GRC** CAT 6 F/UTP Network LSZH-rated belongs to a class of General Purpose cables, and may be used anywhere in Residential areas or inside conduits in commercial areas. The cables are flame tested and held to a lower standard than CM, Riser or Plenum cables.

When taking fire, LSZH cables generate fumes that doesn't contain halides resulting in a cable safer to use in public places, fire propagation speed is similar to CMX.

**B Technical Specifications:**

|                                  |  |                                  |                        |        |
|----------------------------------|--|----------------------------------|------------------------|--------|
| Standards                        | ISO/IEC11801, TIA/EIA 568.2, EN 50173, IEC 60332-1C, DELTA No. 2017-370. |                                  |                        |        |
| 1.-Conductor                     | Material   | Copper 100%                      |                        |        |
|                                  | AWG #  | 23                               |                        |        |
|                                  | Nominal Diameter (mm)  | 0.570                            | Positive tolerance     | +0.005 |
|                                  |  |                                  | Negative tolerance     | -0.005 |
| 2.-Isolation layer               | Material   | HDPE (High Density Polyethylene) |                        |        |
|                                  | Diameter (mm)  | 1.09±0.02                        |                        |        |
|                                  | 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   | LSZH, 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)                                       | ≥10                              |                        |        |
|                                  | Elongation before aging (%)  | ≥125                             |                        |        |
|                                  | Aging Period (°C x hours)  | 100°C x 24 h x 7d                |                        |        |
|                                  | Tensile strength after Aging(Mpa)  | ≥8.0                             |                        |        |
|                                  | Elongation after aging (%)   | ≥100                             |                        |        |
|                                  | Cold Bend (-20±2°Cx4h)   | No visible cracks                |                        |        |
|                                  | Bending Radius   | 8xexternal Dia. during install,  |                        |        |
| 4xexternal 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 (1minute)  | 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   | 1.9     | 74.0     | 570.00    | 72.3       | 68.0       | 65.0         |
| 4           | 23.0   | 3.7     | 65.0     | 552.00    | 63.3       | 56.0       | 53.0         |
| 8           | 24.5   | 5.3     | 60.7     | 546.73    | 58.8       | 49.9       | 46.9         |
| 10          | 25.0   | 5.9     | 59.0     | 545.38    | 57.3       | 48.0       | 45.0         |
| 16          | 25.0   | 7.5     | 56.0     | 543.00    | 54.2       | 43.9       | 40.9         |
| 20          | 25.0   | 8.4     | 55.0     | 542.05    | 52.8       | 42.0       | 39.0         |
| 25          | 24.3   | 9.5     | 53.3     | 541.20    | 41.3       | 40.0       | 37.0         |
| 31.25       | 23.6   | 10.6    | 52.0     | 540.44    | 49.9       | 38.1       | 5.1          |
| 62.5        | 21.5   | 15.4    | 47.0     | 538.55    | 45.4       | 32.1       | 29.1         |
| 100         | 20.1   | 19.8    | 44.0     | 537.60    | 42.3       | 28.0       | 25.0         |
| 200         | 18.0   | 29.0    | 40.0     | 536.54    | 37.8       | 22.0       | 19.0         |
| 250         | 17.3   | 32.8    | 38.0     | 536.27    | 36.3       | 20.0       | 17.0         |

**E How to Order:**

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