SLANPRO

Cabling - Copper Solutions

LP-C6070BKC LanPro Reliable® CAT 6 U/UTP Outdoor Network Cable, solid AWG 23 100% Copper, Double Jacket (Black PE plus Gray CMX) Flexible-X[™] separator for symmetry and ripcord in a 1000 ft (305 m) wood spool.

LPC6070BKC_SS_ENB01W

Características:

- Exceeds all standards for CAT 6 communications cable.
- Outdoor installation.
- Direct burial.
- Extremely durable.
- Black PE Jacket.
- UV resistant.
- Unshielded U/UTP.
- Characterized up to 250 MHz.
- Operating voltaje
 ≤ 48 Volt RMS.
- Rattenweg[™] option for rodent resistance.

Applications:

- Outdoor cable runs to wireless Access Points (AP), Bridges or CPE.
- Outdoor cable runs to IP Video Surveillance Cameras.
- Inter-building networks.
- Equipment not requiring shielding of the cable.
- Ethernet, Phone, Paging, Alarm, Video and Powerover-Ethernet (PoE) Networks.
- The perfect Cat 6 cable for outdoor residential and commercial installations.
- Situations where reliability is of paramount importance, as in military complexes, hospitals, extreme weather locations, airports.







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LanPro Reliable® CAT 6 U/UTP Outdoor Network Cable, solid AWG 23 100% copper, Double Jacket (Black PE plus Gray CMX) Flexible-X[™] separator for symmetry and ripcord in a 1000 ft (305 m) wood spool.

LanPro manufactures high performance CAT 6 cables for outdoor usage. The external jacket is made of Polyethylene (PE) with a high resistance to external agents like humidity, UV radiation and high temperatures resulting in a long lasting operation. The external jacket offers also positive protection to corrosion, erosion and friction.

This cable is constructed with a 4 UTP basis of AWG 23 100% Copper conductors, structurally uniformly arranged with our Flexible- X^{TM} plastic separator for better performance yielding an U/UTP structure. All of these features make this cable highly recommended for outdoor connection equipment not requiring shielding.

Outdoor CAT 6 cables from LanPro are approved as per the ISO/IEC11801 standard and following the newest TIA/EIA 568-C.2 (newer than the 568B.2-1 E) specifications for Category 6 cables. Used for Traditional 100Base-Tx , 100Base TP PMD, and Gigabit Ethernet 1000BASE-Tx, token-ring, 155 Mbps ATM, 622MB ATM, and 1.2GB ATM. Also 100 Mbps TP-PMD, 100VG (Any Lan). ISDN, (broadband, analog baseband), digital video and voice over IP (VoIP), it can also be used for IP video surveillance cameras. Comply in excess European 50173-1 (See TIA/EIA 568-C.2), NEMA WC66, ANSI/ICEA S102-700 and UL on the internal jacket. Can be used in compliance with Mexican regulation NMXi 248 NYCE 2005.

WARNING: the use of traditional indoor grade Category 6 cable in outdoor applications subjects it to rapid deterioration. Installation of indoor CAT 6 cable inside a conduit does not make it outdoor suitable either. Conduits filled with water will deteriorate the cable rapidly.

Therefore, choosing a high quality outdoor (UV-rated) CAT 6 cable with PE jacket and HDPE conductor insulation is extremely important. LanPro outdoor cables will avoid costly network outages, keeping network reliability high and maintenance costs low.

If the cable is not well made or UV-rated, it may snag when coming out of the box, causing an installation breakdown or failure in sunlight over time. Wi-Fi towers and their installations MUST use this kind of product to avoid fast deterioration of the cabling set-up due to weather, dust, sun and rude environment.

LanPro has taken each aspect into consideration when designing this product, from its storage, installation, operation and its maintenance in order to deliver a cost effective solution to our customers. Now, with the optional PE Rattenweg[™] jacket, you will avoid rodent damage.

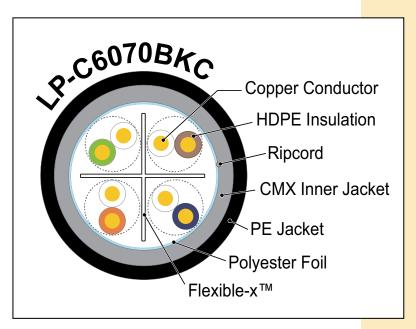
A Technical Specifications

Standards	ISO/IEC11801, TIA/EIA 568.2							
1 Conductor	Material	Copper 100%						
	AWG #	23						
	Nominal Diameter (mm)	0.565	Positive tolerance	+0.005				
		Negative tolerance -0.005						
2 Isolation layer	Material	HDPE (High Density Polyethylene)						
	Diameter (mm)	1.02 + 0.03						
	Elongation	Min. 300%						
	Color	A- Blue, White-Blue B- Orange, White-Orange						
		C- Green,	White-Green	D- Brown, White-Brown				
3 Wrapping	Mylar							
4 Rip Cord	Yes							
5 Shielding	U/UTP	Not shielded						
6 Drain Wire	No							
	Thickness	0.60 ± 0.05 mm						
	External Diameter, (O.D.)		7.5 ± 0.5 mm					
7 Jacket	Surface finish	Clean, Satinized						
	Material	LDPE, RoHS, optional rodent Rattenweg™ treatment						
	Color	Black						
	Tensile Strength Before aging	≥10.0 Mpa						
8 Jacket Physical	Elongation Before Aging	≥350% 100°Cx24x10d						
Properties	Aging Period(^o CxHours) Elongation After aging	≥300 %						
	Cold Bend(-20+2°Cx4h)	8 x Cable O.D. No visible cracks						
	Material							
	Thickness	0.55 mm						
9 Inner jacket	Color	Gris						
	Diameter	7.4 mm						
10 Markings	Type height	$3.0 \pm 0.3 \text{ mm}$						
	Color	Blanco						
11 Packaging	Wood Spool							
	Product length	305 ± 0.5 m						
	Temperature Range	-20°C to 75°C						
12 Mechanical properties	Minimum Mechanical Tension resistance	1.68 Kg/mm ²						
	Isolation resistance @500 V	Min 5000 MOhm/Km						
	Zo (1.0 – 100.0 MHz)	100 ± 15 Ohm						
	Propagation Velocity (% C)	68%						
13 Electrical properties @ 20oC	Delay Skew	≤45(ns/100m)						
	Maximum DC Resistance @ (20 °C)	9.38 Ohm/100 m						
	Delay [ns/100m] @100 MHz	538 ns						
	% Resistance unbalance between conductors(Max)	5 %						
	Maximum Operating RMS AC Voltage	≤48						
	Peak Operating Voltage (DC)	≤68						
	(DC) Test Voltage (1 minute)	1.0 KV/ 1 minute						

Frec. (MHz)		ATT <db< th=""><th>NEXT >dB</th><th>DELAY <ns< th=""><th>PSNEXT >dB</th><th>ELFEXT >dB</th><th>PSELFEXT >dB</th></ns<></th></db<>	NEXT >dB	DELAY <ns< th=""><th>PSNEXT >dB</th><th>ELFEXT >dB</th><th>PSELFEXT >dB</th></ns<>	PSNEXT >dB	ELFEXT >dB	PSELFEXT >dB
ггес. (МПZ)	RL >dB	ATT COD	NEAT 200	DELAT	PSNEXT >UD	ELFEXI ZUD	PSELFEXT SUD
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

Bectrical Characteristics

Cable Structure



How to Order:

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