

LP-C6040BKC LanPro Reliable® CAT 6 U/UTP Outdoor Network Cable, solid AWG 23 100% copper, Single Black PE Jacket Gel Filled Core and Flexible-X™ separator for symmetry and ripcord in a 1000 ft (305 m) wood spool.

LPC6040BKC_SS_ENB01W

Characteristics:

- Exceeds all standards for CAT 6 communications cable.
- Outdoor installation.
- Direct burial.
- Extremely durable.
- Single Black PE Jacket.
- Gel Filled for water blocking.
- UV resistant.
- Unshielded U/UTP.
- Characterized up to 250 MHz.
- Operating voltage ≤ 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
- Gel Filled for water blocking
- Ethernet, Phone, Paging, Alarm, Video and Power-over-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 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™ plastic separator for better performance yielding an U/UTP structure. Filled with GEL for water blocking, all of these features make this cable highly recommended for outdoor connection equipment not requiring shielding and very humid environments.

Outdoor CAT 6 cables from LanPro are approved as per the ISO/IEC11801 standard and following the TIA/EIA 568-C.2 specifications for Category 6 cables.

Used for Gigabit Ethernet, 1000BASE-Tx, token-ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, (broadband, analog baseband), digital video and voice over IP (VoIP), it can also be used for IP video surveillance cameras.

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.

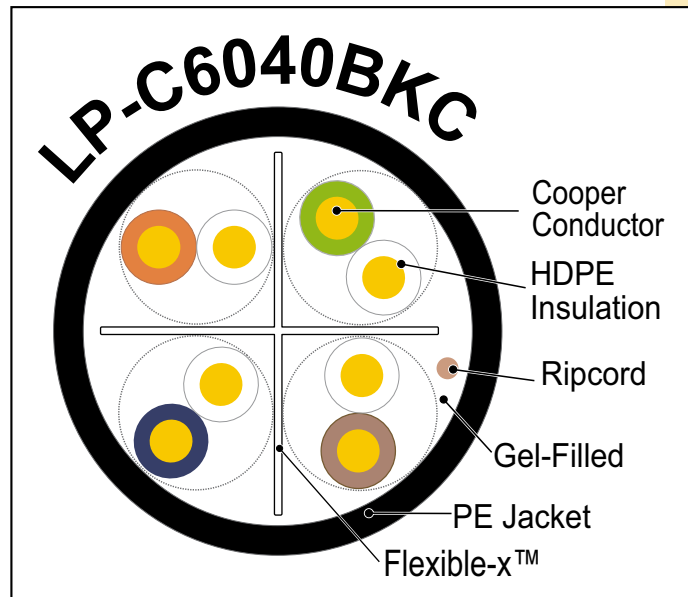
A Technical Specifications

Standards	ISO/IEC11801, TIA/EIA 568-C.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 (Polietileno de alta densidad)		
	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.- Wrapping	None			
4.- Rip Cord	Yes			
5.- Shielding	U/UTP	Not shielded		
6.- Drain Wire	No			
7.- Jacket	Thickness	0.60 + 0.05 mm		
	External Diameter, (O.D.)	6.8 + 0.8 mm		
	Surface finish	Clean, Satinized		
	Material	LDPE, RoHS, optional rodent Rattenweg™ treatment		
	Color	Black		
8.- Jacket Physical Properties	Tensile Strength Before aging	≥ 10.0 Mpa		
	Elongation Before Aging	≥ 350%		
	Aging Period (°C x Hours)	100 °C x 24 x 10d		
	Elongation After aging	≥ 300 %		
	Cold Bend (-20 + 2 °C x 4h)	8 x Cable O.D. No visible cracks		
9.- Markings	Type height	3.0 ± 0.3 mm		
	Color	White		
10.- Packaging	Wood Spool			
	Product length	305 ± 0.5 m		
11.- Mechanical properties	Temperature Range	-20 °C to 75 °C		
	Minimum Mechanical Tension resistance	1.68 Kg/mm ²		
12.- Electrical properties @ 20 °C	Isolation resistance @500 V	Min 5000 MOhm/Km		
	Zo (1.0 – 100.0 MHz)	100 ± 15 Ohm		
	Propagation Velocity (% C)	68%		
	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 (1minute)	1.0 KV/ 1 minute		

B Certification Characteristics

Frec. (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		61.8	52.1	49.1
8	21.0	5.0	59.4		57.0	46.1	43.1
10	21.0	5.5	57.8		55.5	44.2	41.2
16	20.0	7.0	54.6		52.2	40.1	37.1
20	19.5	7.9	53.1		50.7	38.2	35.2
25	19.0	8.9	51.5		41.9	36.2	33.2
31.25	18.5	10.0	50.0		47.5	34.3	31.3
62.5	16.0	14.4	45.1		42.7	28.3	25.3
100	14.0	18.6	41.8		39.3	24.2	21.2
200	11.0	27.4	36.9		34.3	18.2	15.2
250	10.0	31.1	35.3		32.7	16.2	13.2

C Cable Structure



D How to Order

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