

LP-CE3NOBKC LanPro Reliable® CAT 5E F/UTP Outdoor Network Cable, solid AWG 24 100% copper, Aluminum over Mylar® Foil shield with drain wire, Single PE Jacket and ripcord in a 1000 ft (305m) wood spool.

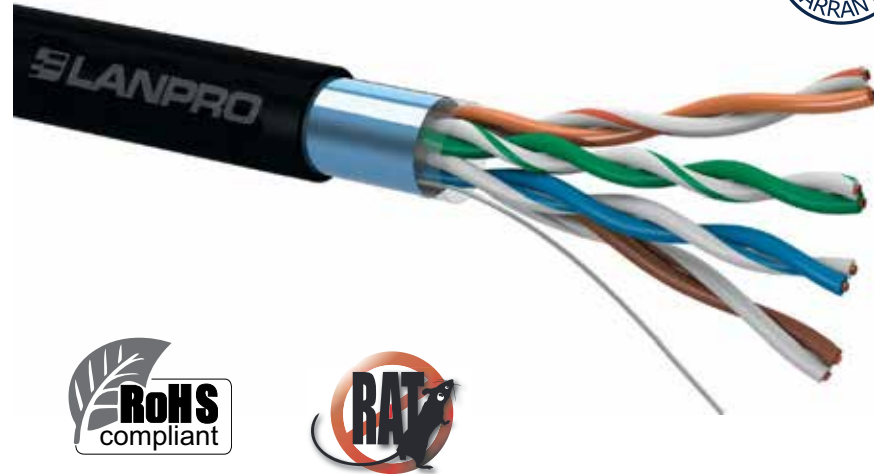
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Characteristics

- Exceeds all standards for CAT 5e communications cable.
- Outdoor installation.
- Buriable.
- Extremely durable.
- Black PE Jacket.
- UV resistant.
- Shielded.
- With a 0.45 mm Dia. Tinned 100% copper drain wire.
- Characterized to 100 MHz.
- Operating voltaje ≤ 48 Volt RMS.

Applications

- Outdoor cable runs to wireless Access Points (AP), Bridges or CPE.
- Outdoor cable runs to IP Video Surveillance Cameras.
- Used in Building to Building Networks.
- Ethernet, Phone, Paging, Alarm, Video and Power-over-Ethernet (PoE) Networks.
- The perfect Cat 5e 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 5e 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 24 100% Copper conductors and is shielded with an aluminum film layered over the UTP pairs, yielding an F/UTP structure. With a 100% copper and tinned drain wire in contact with the shield all over the length of the cable, resulting in the reduction of electromagnetic interference found in hostile environments. All of these features make this cable highly recommended for outdoor connection to outdoor radios and wireless equipment.

Outdoor CAT 5e cables from LanPro are approved as per the ISO/IEC11801 standard and following the TIA/EIA 568-C.2 specifications for Category 5e 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 5e cable in outdoor applications subjects it to rapid deterioration. Installation of indoor CAT 5e 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 5e 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 Specifications

Standards	ISO/IEC 11801, EN 50173 a ANSI/TIA 568.2-D			
Conductor	Material	Copper 100%		
	AWG #	24		
	Nominal Diameter (mm)	0.50	Positive tolerance	+0.005
			Negative tolerance	-0.005
Isolation layer	Material	HDPE (High Density Polyethylene)		
	Diameter (mm)	1.0±0.05		
	Elongation	Min. 300%		
	Color	A-Blue, White-Blue	B-Orange, White-Orange	
		C-Green, White-Green	D-Brown, White-Brown	
Wrapping	PET			
Rip Cord	Yes			
Shielding	F/UTP	Aluminum over Mylar Foil		
Drain Wire	yes	0.45mm, Copper 100%, Tinned		
Jacket	Thickness	0.55±0.05 mm		
	External Diameter, (O.D.)	6.2.5±0.5 mm		
	Surface finish	Clean, Satinized		
	Material	LDPE, RoHS, optional rodent Rattenweg™ treatment		
	Color	Black		
Jacket Physical Properties	Tensile Strength Before aging	>10.0 Mpa		
	Elongation Before Aging	>300%		
	Aging Period(°CxHours)	100°Cx24x10d		
	Elongation After aging	>300 %		
	Cold Bend(-20+2°Cx4h)	8xCable O.D. No visible cracks		
Markings	Type height	3.0+0.3 mm		
	Color	White		
Packaging	Wood Spool			
	Product length	305 + 0.5 m		
Mechanical properties	Temperature Range	-20°C to 70°C		

13.-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 oC)	9.5 Ohm/100 m
	Delay [ns/100m] @100 MHz	535 ns
	% Resistance unbalance between conductors(Max)	≤2 %
	Maximum Operating RMS AC Voltage	±48
	Peak Operating Voltage (DC)	±68
	(DC) Test Voltage (1minute)	1.0 KV/ 1 minute

B Certification Characteristics

Frequency (MHz)	ATT ≥(dB/100m)	NEXT ≤(dB)	PSNEXT ≥(dB)	ELFEXT ≥(dB)	PSELFEXT ≥(dB)	Delay ≤ns	RL ≥(dB)
1	1.94	83.24	82.43	76.30	72.75	534.95	32.03
4	3.89	71.20	69.89	64.02	60.40	516.29	33.38
8	5.52	68.88	66.19	58.02	53.00	510.89	35.09
10	6.18	69.88	66.88	55.08	51.28	509.48	36.05
16	7.83	66.11	63.11	52.09	49.08	507.05	43.10
20	8.77	66.90	63.82	49.66	46.58	506.03	41.27
25	9.81	65.40	60.58	43.65	41.21	505.18	40.07
31.25	11.00	57.77	55.07	45.14	42.54	504.40	39.08
62.5	15.67	53.31	51.59	38.30	35.30	502.45	34.07
100	19.86	57.37	50.12	34.68	31.91	501.44	33.31

C 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.