

LP-CE5N0BKC LanPro Reliable® CAT 5e SF/UTP Outdoor Network Cable, with 4 pairs of AWG 24 solid 100% copper conductors with an overall layer of Aluminum Foil shield and with an Aluminum-Magnesium braid of 60% coverage wound on top of it. It also includes a drain wire and a Single Black PE Jacket with ripcord in a 1000 ft (305m) wood spool.

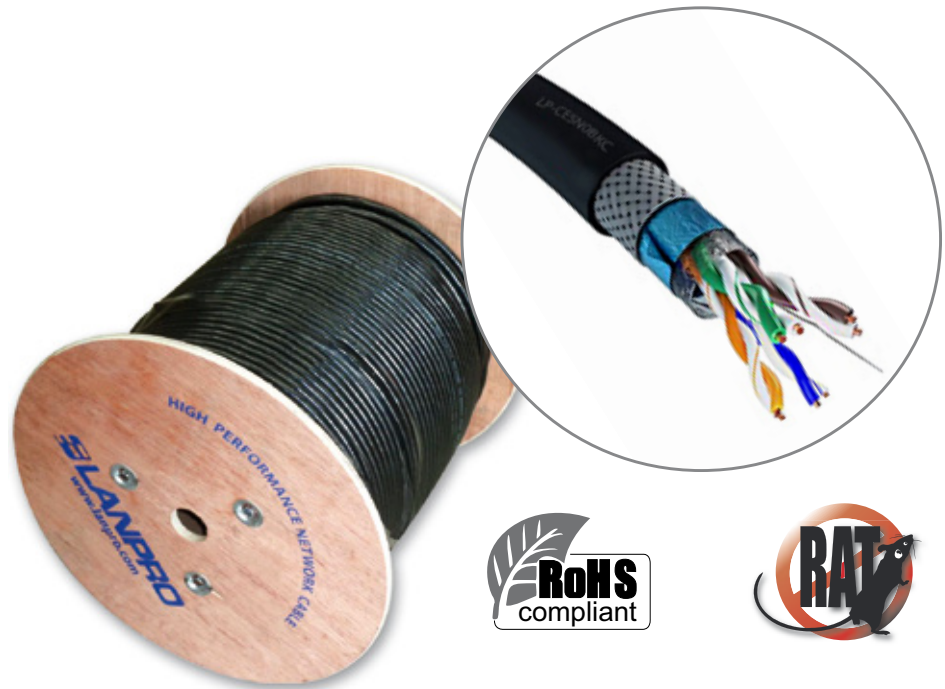
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Characteristics

- Exceeds all standards for CAT 5e communications cable.
- Outdoor installation.
- Can be buried.
- Extremely durable.
- Black PE Jacket.
- UV resistant.
- Double Shielded with aluminum foil and an overall 60% coverage Aluminum-Magnesium braid on top of it for noisy environments.
- With a 0.45 mm Dia. Tinned 100% copper drain wire.
- Characterized to 100 MHz.
- Operation voltaje ≤ 48 Volt RMS.

Applications

- Outdoor cable runs to wireless Access Points (AP), Bridges or CPE.
- Outdoor cable runs to IP Video Surveillance Cameras.
- Highly shielded for better performance on noisy environments.
- 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 overall layer of Aluminum Foil shield and with an Aluminum-Magnesium braid of 60% coverage wound on top of it, yielding an SF/UTP structure. With a 100% copper and tinned drain wire in contact with the shield all over the length of the cable, results in the reduction of electromagnetic interference found in noisy environments. All of these features make this cable highly recommended for outdoor connection to outdoor radios and wireless equipment in noisy environments.

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.

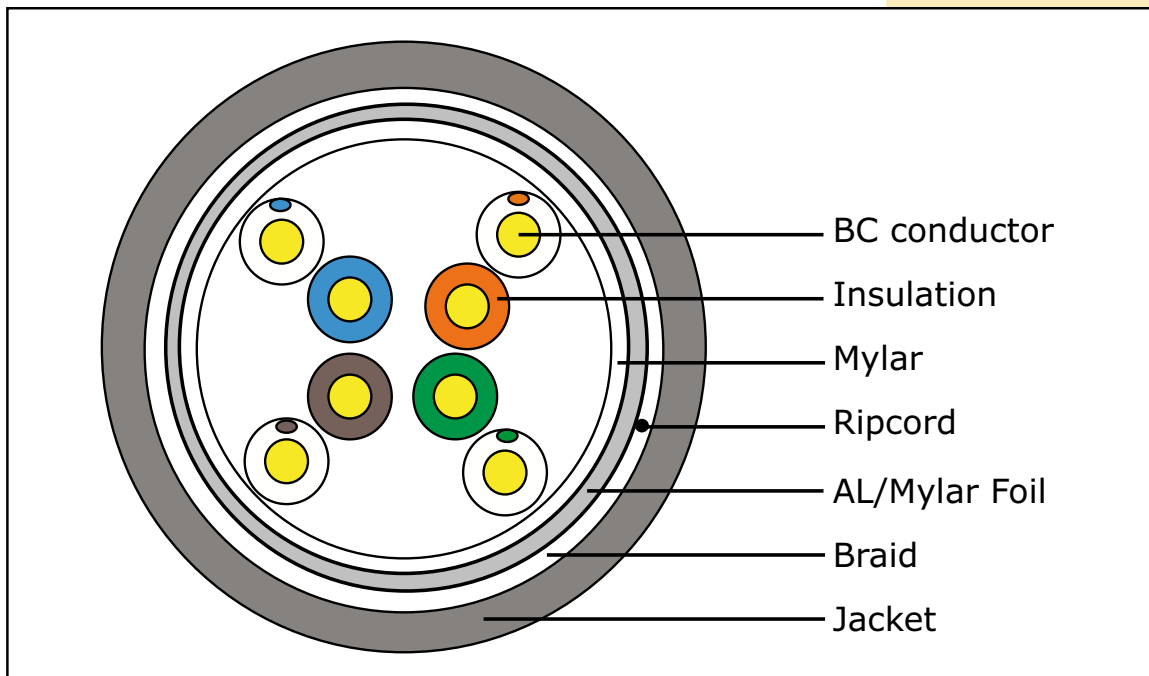
A Specifications

Standards	ISO/IEC11801, TIA/EIA 568-C.2			
Conductor	Material	Copper 100%		
	AWG #	24		
	Nominal Diameter (mm)	0.50	Positive tolerance	+0.005
			Negative tolerance	-0.005
Insulation	Material	HDPE (High Density Polyethylene)		
	Diameter (mm)	1.00±0.05		
Color	A-Blue, White-Blue	B-Orange, White-Orange		
	C-Green, White-Green	D-Brown, White-Brown		
Inner Shield Material	Mylar+AL/Mylar			
Drain wire	Yes			
Rip Cord	Yes			
Braid	Aluminum-Magnesium alloy 0.12mm. Coverage ≥40%			
Jacket	Thickness	0.55±0.05 mm		
	External Diameter, (O.D.)	6.6±0.5 mm		
	Surface finish	Clean, Satinized		
	Material	LDPE, RoHS		
	Color	Black		
Outer Jacket Physical Properties	Tensile Strength Before aging	>10.0 Mpa		
	Elongation Before Aging	>350%		
	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	Blanco		
Packaging	Wood Spool			
	Product length	305 + 0.5 m		
Temperature	Temperature Range	-20°C to 75°C		
Electrical properties @ 20°C	1.0-100.0MHz, Characteristic impedance (Ω)	100±15		
	1.0-100.0MHz, Delay Skew 20°C (ns/100m)	≤45		
	Unbalanced-to-ground capacitance (pf/100m) max	330		
	DC Resistance 20°C (Ω/100m) max	9.5		
	DC Conductor Resistance Unbalance (%)max	5.0		

B Certification Characteristics

Frequency (MHz)	ATT ≥(dB/100m)	NEXT ≤(dB)	PSNEXT ≥(dB)	ELFEXT ≥(dB)	PSELFEXT ≥(dB)	Delay ≤ns	RL ≥(dB)	SRL (dB)	ACR (dB)	PSACR (dB)
1	-	65.3	62.3	63.8	60.8	570.00	20.0	25.0	63.3	60.3
4	4.1	56.3	53.3	51.8	48.8	552.00	23.0	25.0	52.2	49.2
8	5.8	51.8	48.8	45.7	42.7	546.73	24.5	25.0	46.0	43.0
10	6.5	50.3	47.3	43.8	40.8	545.38	25.0	25.0	43.8	40.8
16	8.2	47.2	44.2	39.7	36.7	543.00	25.0	25.0	39.0	36.0
20	9.3	45.8	42.8	37.8	34.8	542.05	25.0	25.0	36.5	33.5
25	10.4	44.3	41.3	35.8	32.8	541.20	24.3	24.3	33.9	30.9
31.25	11.7	42.9	39.9	33.9	30.9	540.44	23.6	23.6	31.2	28.2
62.5	17.0	38.4	35.4	29.7	24.9	538.55	21.5	21.5	21.4	18.4
100	22.0	35.3	32.3	23.8	20.8	537.60	20.1	20.1	13.3	10.3

C Cable Structure



D How to Order

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