

LP-CEC70BKC LanPro Reliable® CAT 5e SF/UTP Outdoor Network Cable, solid AWG 24 100% copper, shielded with tinned copper braid and Aluminum over Mylar® Foil, drain wire, Double Jacket (Black PE plus Gray CMX) and ripcord in a 1000 ft (305 m) wood spool.

LPCEC70BKC_SS_ENB01W

Features

- Exceeds all standards for CAT 5e communications cable.
- Outdoor installation.
- Buriable.
- Extremely durable.
- Black PE Jacket.
- UV resistant.
- Shielded.
- Characterized to 100 MHz.
- Operating voltage \leq 48 Volt RMS.



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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 four (4) UTP basis of AWG 24 100% Copper conductors and is shielded with an aluminum film layered over the UTP pairs, yielding and SF/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.

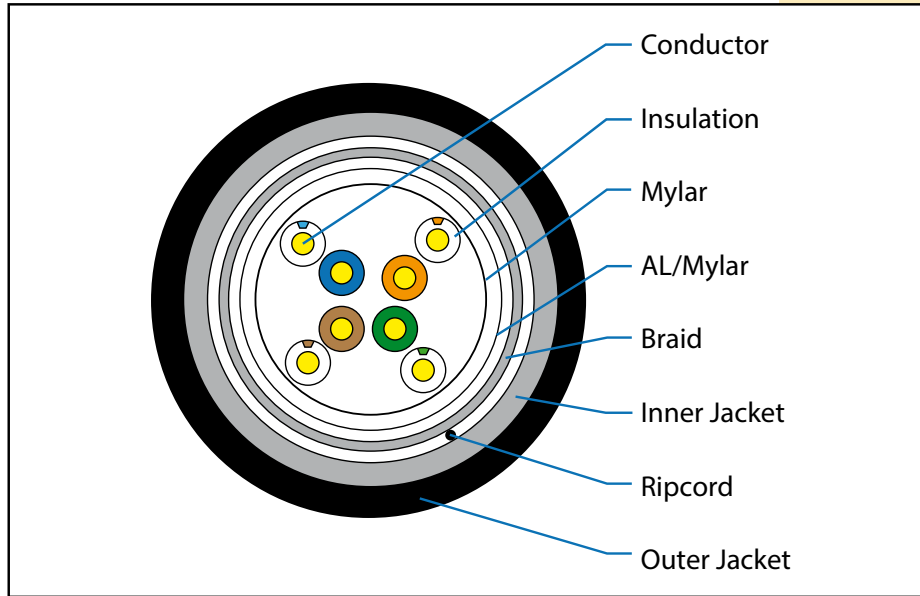
A Applications

- 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.

B Technical Specifications

Standards	ISO/IEC11801, TIA/EIA 568 C.2			
Conductor	Material	100% Copper		
	AWG #	24		
	Nominal Diameter (mm)	0.500	Positive tolerance	+0.005
			Negative tolerance	-0.005
Insulation	Material	HD PE		
	Diameter (mm)	1.00±0.05		
Ripcord	Yes			
Core 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	
Braid	Tinned Copper 0.10 mm	Coverage	≥40%	
Inner Jacket	Material	CMX	Color	Gray
	Thickness	0.55 mm		
Outer Jacket	Thickness	0.55±0.05 mm		
	External Diameter, (O.D.)	7.8±0.5 mm		
	Surface finish	Clean		
	Material	LDPE (complies RoHS)		
	Color	Black		
Markings	Letter height	3.0 ± 0.3 mm		
	Color	Black		
	Print error & Space	≤±0.5%, 1m		
Packing	Wood spool & Carton			
Packing length	305 ±1.5 m			
Mechanical Characteristics	Tensile strength before aging (Mpa)	≥10.0		
	Elongation before aging (%)	≥350		
	Aging Period (°C x hours)	100°C x 24 h x 7d		
	Tensile strength after Aging (Mpa)	≥8.0		
	Elongation after aging (%)	≥300		
	Cold Bend (-20+2°Cx4h)	No visible cracks		
	Bending Radius	8x external Diameter, during install.		
Electrical properties @ 20°C	Delay skew	≤45 ns/100m		
	Unbalanced-to-ground capacitance	330 (pf/100m) max.		
	Maximum DC Resistance (Ω/100 m) max	9.5		
	DC Conductor Resistance Unbalance (%) max	5.0		

C Cable Structure



D Technical Performance (100m)

Freq. (MHz)	RL ≥ dB	ATT ≤ dB	NEXT ≥ dB	Delay ≤ ns	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB
1	20.0	-	65.3	570.0	62.3	63.8	60.8
4.0	23.0	4.1	56.3	552.0	53.3	51.8	48.8
8.0	24.5	5.8	51.8	546.7	48.8	45.7	42.7
10.0	25.0	6.5	50.3	545.4	47.3	43.8	40.8
16.0	25.0	8.2	47.2	543.0	44.4	39.7	36.7
20.0	25.0	9.3	45.8	542.1	42.8	37.8	34.8
25.0	24.3	10.4	44.3	541.2	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.4	39.9	33.9	30.9
62.5	21.5	17.0	38.4	538.6	35.4	27.9	24.9
100	20.1	22.0	35.3	537.6	32.3	23.8	20.8

E How to Order

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