LP-CE0N2BKC Network Cable, all Weather Outdoor CAT 5e type U/UTP, solid, Bimetallic 40% copper, 60% aluminum, AWG 24, with Single Black PE Jacket, in 1000 ft wood spool.

LPCE0N2BKC_SS_ENB01W

Features

- Specified and tested to well over 100 MHz.

- IEEE802.3af and IEEE802.3at PoE compliant for the entire 100m cable run.

- Lower bit error rate increases network efficiency and uptime.

- TIA/EIA 568B CAT 5E.

- Superior performance to traditional designs.

- 568-A and 568-B compatible.

- Unshielded U/UTP.

- Rip Cord included.

- Backward compatible with CAT 5 systems.

- Excellent price/performance ratio.

- Black color PE jacket.

- Four (4) 24 AWG Twisted Pairs.

- Packaged in one convenient presentation: 1000 feet (305m) wood spool.

Applications

- For structured UTP cable installations in outdoors.

- Enables wiring of all kinds of network equipment based in the CAT 5e standard.

- Power distribution to remote data equipment based in the PoE technology.
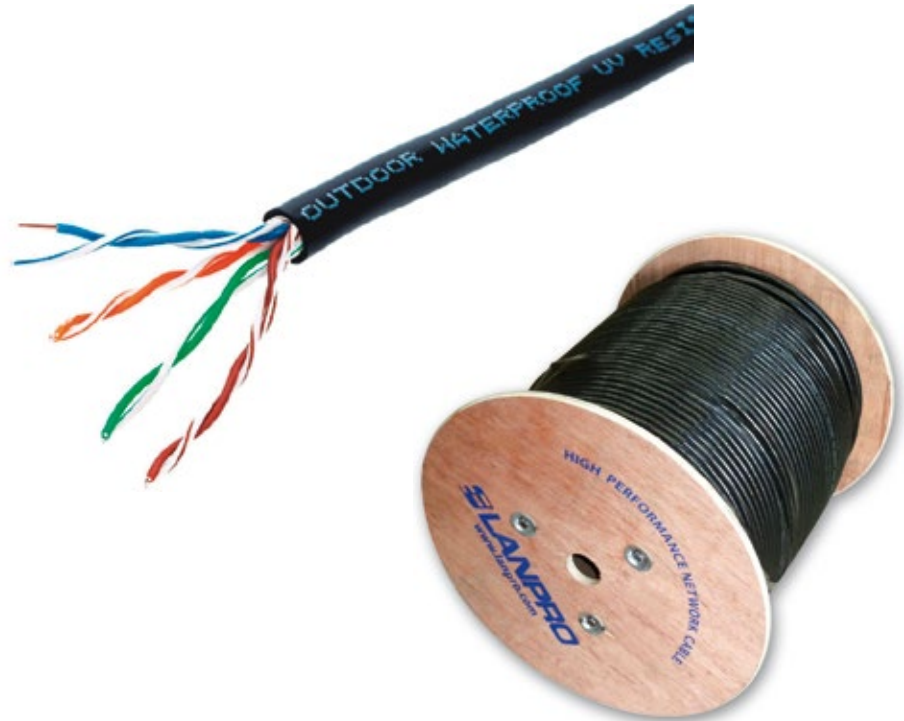
LP-CE0N2BKC
Network Cable, all Weather Outdoor CAT 5e type U/UTP, solid, Bimetallic 40% copper, 60% aluminum, AWG 24, with Single Black PE Jacket, in 1000 ft wood spool.

This cable is manufactured with bi-metallic technology, with the purpose of lowering cost without compromising performance and certification for most of the structured cabling applications in the market.

The technology of Bi-metallic cables is based in the high frequency skin effect in which most of the current flows near the surface of the conductor and much less in the core. This is why the core is aluminum and the surface is copper.

Excellent handling characteristics for the installer.

With its AWG 24 wires, it gives excellent characteristics to the user.

A Copper/Aluminum ratio of 40/60, warrants the user excellent characteristics for the price. The resistivity per meter, and other electric characteristics permit true certification as a CAT 5e UTP cable for 100m runs.

An uniform structure along the length of the cable, by means of uniform wire twist machining in the fabrication process, reduces cross talk between pairs to values that ensure certification.

A Benefits on the use of HDPE jacket on exterior cabling systems:

- Good priced.
- Can withstand wide range of temperatures, from freezing to desert hot environment.
- Ideal for use on beaches, coastal, etc.
- Made of NON recycled HDPE.
- UV resistant.
- Abrasion resistant.
- Stiff.
- Resistant to most solvents, fuels, greases, etc.
- Resistant to corrosion.
- Ideal for Access Point, Data Radios, trunk between buildings, outdoor cameras, etc.

Note: Take note this cable is intended to be used outdoor, never indoor as is a flammable cable with toxic fumes.

B Technical specifications

Conductor	Material	40% Copper 60% Aluminum		
	AWG #	24		
	Nominal Diameter (mm)	0.5	Positive tolerance	+0.005
			Negative tolerance	-0.005
Insulation	Material	HDPE (High Density Polyethylene)		
	Diameter (mm)	0.90±0.02		
	Color	A-Blue, White-Blue	B-Orange, White-Orange	
		C-Green, White-Green	D-Brown, White-Brown	
Rip Cord	Yes			
Shielding	U/UTP (Unshielded)			
Jacket	Thickness	0.55±0.05 mm		
	External Diameter, (O.D.)	5.0±0.3 mm		
	Surface finish	Clean, Frap. Satiation		
	Material	Non recycle HDPE (UV protect)		
	Color	Black		
Markings	Type height	3.0±0.3 mm		
	Color	Black		
Packaging	Wood Spool			
	Product length	305 ± 1.5 m		
	Carton Dimensions	26.0 x 26.0 x 24.0 cm		
Electrical properties @ 20°C	Characteristic impedance(Ω)	100±15		
	Delay Shew 20°C (ns/100m)	≤45		
	DC Resistance 20°C (Ω/100m) max	13		
	DC Conductor Resistance Unbalance (%) max	2.5		

C **Certification**

LINKWARE PC
CABLE TEST MANAGEMENT SOFTWARE

Cable ID: TIA-0001
Date / Time: 07/10/2015 05:35:00 PM
Headroom 8.2 dB (NEXT 12-45)
Test Limit: Cat 5e Chan
Cable Type: Cat 5e UTP

Operator: LanPro America
Software Version: V06.12
NVP: 72.0%

Test Summary: PASS
Model: OMNIScanner2
Main S/N: 50D04C00038
Remote S/N: 50E04C00019
Main Adapter: PM06
Remote Adapter: PM06

Wire Map		Expected	Actual
PASS	omni:	12345678	12345678
	rem.:	12345678	12345678
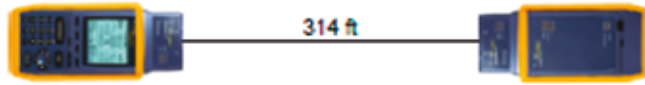
Length (ft), Limit 328	[Pair 36]	314
Prop. Delay (ns), Limit 555	[Pair 78]	452
Delay Skew (ns), Limit 50	[Pair 78]	8
Resistance (ohms)		N/A
Insertion Loss Margin (dB)	[Pair 78]	4.5
Frequency (MHz)	[Pair 78]	99.4
Limit (dB)	[Pair 78]	23.9

314 ft

Insertion Loss (dB)
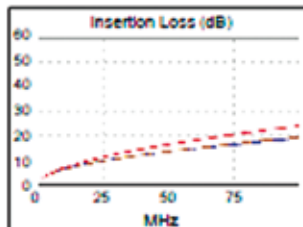
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-45	12-36		
NEXT (dB)	8.2	9.8		
Freq. (MHz)	25.3	2.8		
Limit (dB)	40.3	56.2		
Worst Pair	12	45		
PS NEXT (dB)	9.5	11.6		
Freq. (MHz)	25.3	35.4		
Limit (dB)	37.3	34.8		
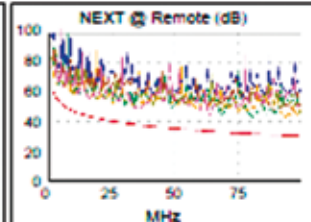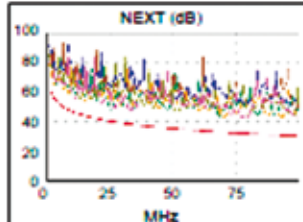
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-12		
ACR-F (dB)	14.3	14.2		
Freq. (MHz)	1.0	1.0		
Limit (dB)	57.7	57.7		
Worst Pair	36	12		
PS ACR-F (dB)	16.8	16.9		
Freq. (MHz)	1.0	1.0		
Limit (dB)	54.8	54.8		
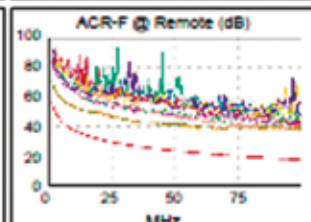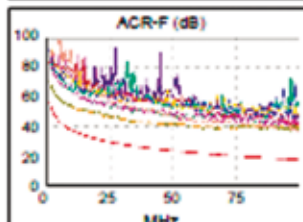
PASS	MAIN	SR	MAIN	SR
Worst Pair	78	12		
RL (dB)	4.2	6.4		
Freq. (MHz)	14.7	2.5		
Limit (dB)	17.0	17.0		

NEXT (dB) NEXT @ Remote (dB)

ACR-F (dB) ACR-F @ Remote (dB)

RL (dB) RL @ Remote (dB)
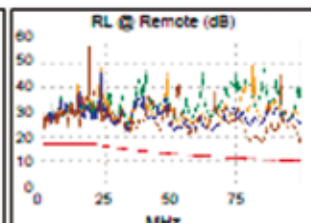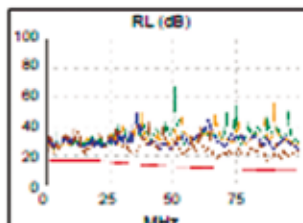
Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

LinkWare™ PC Version 9.3

Project: Cat5e UTP BM2   bm2 certification.flw

FLUKE networks.

D Certification Characteristics

Freq., MHz	RL(dB)	Phase ≥Delay ns	ATT ≤(dB/100m)	NEXT ≥(dB/100m)	PSNEXT ≥ (dB/100m)	ACR-F ≥ (dB/100m)	PS ACR-F≥ (dB/100m)
1	23.0	570.00	1.8	74.4	73.2	67.8	66.8
4	27.2	552.00	4.3	64.4	62.1	57.9	56.8
8	26.2	546.73	6.2	67.6	65.6	51.4	49.9
10	27.0	545.73	6.8	61.3	59.4	47.6	46.1
16	25.9	545.38	8.5	55.9	54.7	46.0	44.8
20	24.5	542.05	9.4	55.8	54.7	43.7	42.3
25	24.8	541.20	10.4	55.5	51.5	42.4	38.7
31.25	19.1	540.44	11.5	53.8	50.1	41.2	38.3
62.5	26.8	538.55	16.1	47.4	45.0	31.5	28.8
100	19.3	537.60	20.9	47.3	45.2	28.3	26.9

E Cable Structure

Conductor

Insulation

Ripcord
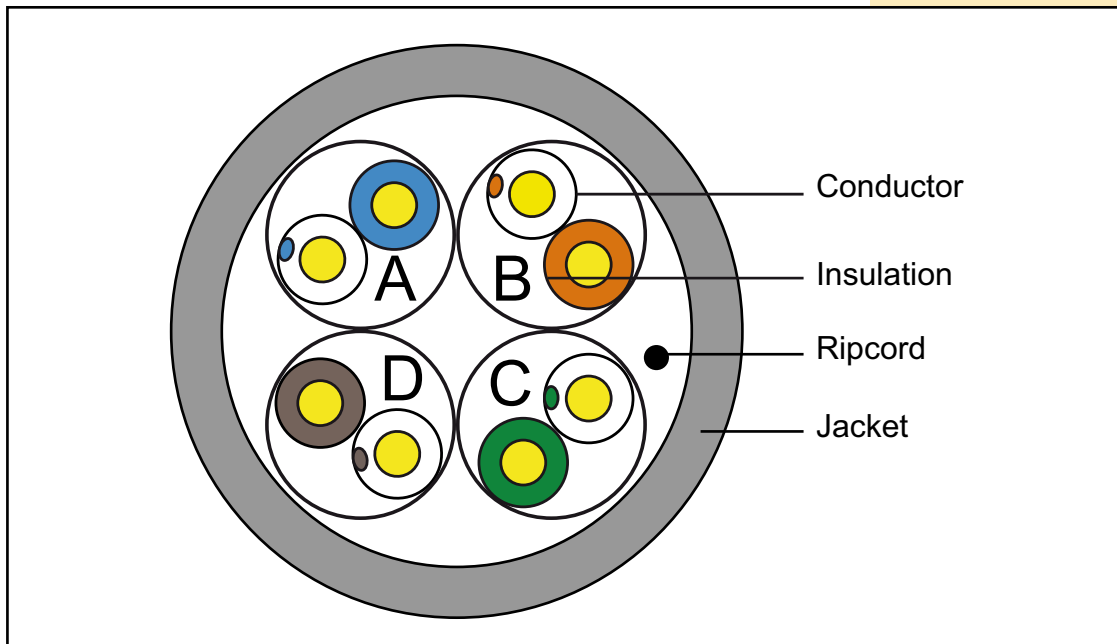
Jacket

F How to Order

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