

# **SPECIFICATION SHEET**

PART NUMBER : EVNSL0272BK-XXXX

STYLE : 60°C 300V

COMMUNICATION CABLE

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DESCRIPTION: CAT6 S/FTP STRD. PVC BLACK

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RECOGNIZED: UL 、 ETL 、 3P

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**BLACK BOX NETWORK SERVICES**

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## SPECIFICATION

STYLE	60°C 300V COMMUNICATION CABLE	
SIZE	S/FTP 26AWG×4P	ESTABLISHED DATE : 19/Sep/2011
STANDARD : ISO/IEC 11801 CLASS E & ANSI/TIA-568-C.2 CAT 6 & IEC 60332-1-2 & EN 50288-5-2		
APPLICATION : ULTRA HIGH PERFORMANCE LAN CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK		
CONSTRUCTION :		
CONDUCTOR	SIZE	26AWG
	CONSTRUCTION	STRANDED BARE COPPER
	COND. DIAM.	7/0.16±0.008 mm 0.00629±0.00031 inch
CENTERED	AVG. THICK.	0.350 mm 0.01968 inch
	MIN. THICK.	0.2 mm 0.00787 inch
	DIAMETER	1.05 ± 0.05 mm 0.04133±0.00196 inch
	MATERIAL	HDPE
PAIRS	SHIELDED	ALL 4 PAIRS
	COLOR CODES	1. BLUE × WHITE/BLUE STRIPE 2. ORANGE × WHITE/ORANGE STRIPE 3. GREEN × WHITE/GREEN STRIPE 4. BROWN × WHITE/BROWN STRIPE
Inner-Shield	Aluminum-Mylar	An aluminum foil wrap around each pair with insulation on inside surface
OVERALL	Material	TINNED COPPER
	Construction	16 Carriers/5 Strands/0.10mm
	Coverage	MIN 40% (Nom. 48%)
JACKET	AVG. THICK.	0.55 mm 0.02165 inch
	MIN. THICK.	0.50 mm 0.01968 inch
	DIAMETER	5.70± 0.20 mm 0.2244±0.00787 inch
	MATERIAL	PVC
	COLOR	BLACK
PACKAGING	Reel or Spool	Spool

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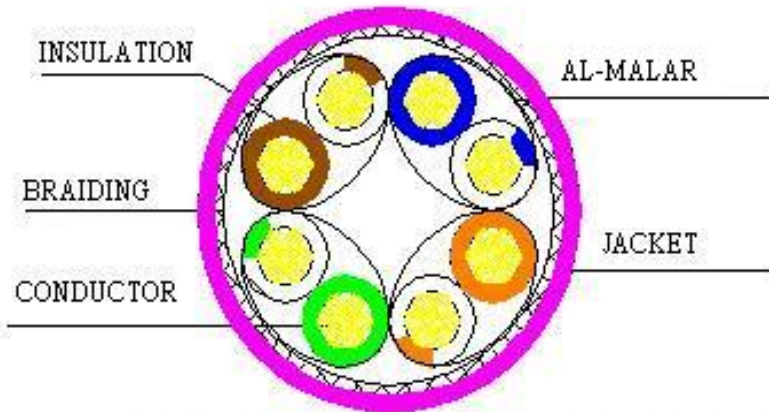
ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM	26AWG × 4P		
RATING TEMP VOLTAGE	60°C 300V		
CONDUCTOR RESISTANCE	14.07 OHM/100m/20°C MAX.		
MUTUAL CAPACITANCE	5600 pF/100M MAX.		
DIELECTRIC STRENGTH	AC 2.5 KV/3 SECONDS.		
SPARK TEST	2000 ±250V AC		
INSULATION	UNAGED	TENSILE STRENGTH	0.51 Kg/m m <sup>2</sup>
		ELONGATION	150% MIN.
JACKETED	UNAGED	TENSILE STRENGTH	1.407 Kg/m m <sup>2</sup>
		ELONGATION	100% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(100°C×168HRS)
		ELONGATION	UNAGED MIN. 50%(100°C×168HRS)
INSULATION SHRINKBACK		150mm, 121°C±2°C×1HR ≤ 9.5mm	
COLD BEND TEST		-20°C×4HRS NO CRACK	
FLAME RETARDANT TEST		CM	
AC LEAKAGE CURRENT THROUGH OVERALL JACKET		AC 1500V ≤ 10 mA	
DC RESISTANCE UNBALANCE		5% MAX.	
PAIR-TO-GROUND CAPACITANCE		330 pF/100m MAX.	
CHARACTERISTIC IMPEDANCE		1 ~ 250 MHz 100±15 OHMS	
PROPAGATION DELAY		250 MHz 546nS/100m MAX.	
DELAY SKEW		1 ~ 250 MHz 45±10nS/100m MAX.	
PRINTING : BLACK BOX CORPORATION GUARANTEED FOR LIFE (724) 746-5500 --- CATEGORY 6 SHIELDED ▲ E196163-Y CM (UL) c(UL) S/FTP 60°C 4PR 26AWG STR ▲ 3P VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-5-2 & IEC 60332-1-2 YY-MM			

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### Electrical performance (50 METER LOOP)

ITEM(dB) Frequency (MHz)	IL MAX. (dB/50m)	NEXT MIN. (dB)	PS. NEXT MIN. (dB)	ACRF MIN. (dB/50m)	PS. ACRF MIN. (dB/50m)	R. L. MIN. (dB)
1	2.1	65.0	62.0	63.3	60.3	19.0
4	4.0	63.0	60.5	51.2	48.2	19.0
8	5.7	58.2	55.6	45.2	42.2	19.0
10	6.3	56.6	54.0	43.3	40.3	19.0
16	8.0	53.2	50.6	39.2	36.2	18.0
20	9.0	51.6	49.0	37.2	34.2	17.5
25	10.1	50.0	47.3	35.3	32.3	17.0
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14.0
100	21.3	39.9	37.1	23.3	20.3	12.0
200	31.5	34.8	31.9	17.2	14.2	9.0
250	35.0	33.1	30.2	15.3	12.3	8.0



Although Black Box has taken precautions to ensure the accuracy of the product specifications at the time of publication, however we cannot be responsible for the errors, omissions or changes due to obsolescence. All data contained herein is subject to change with notice.