

SPECIFICATION SHEET

PART NUMBER : EVNSL0507A-1000

STYLE : 75°C 300V
COMMUNICATION CABLE

DESCRIPTION: Category 5e Green Bulk Cable
350 MHz,Shielded,PVC

RECOGNIZED: UL 、 3P

BLACK BOX NETWORK SERVICES

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STYLE	75℃ 300V COMMUNICATION CABLE				
SIZE	FTP 24AWG×4P		ESTABLISHED DATE : Aug/26/2008		
STANDARD : UL444,1581 & ISO/IEC 11801 & EN50173 & TIA/EIA-568-B.2 CAT 5e					
APPLICATION : LOCAL AREA NETWORK CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK					
CONSTRUCTION :					
CONDUCTOR	SIZE	24AWG			
	CONSTRUCTION	SOLID BARE COPPER			
	COND. DIAM.	1/0.550±0.02	mm	0.02165±0.00787	inch
INSULATION	AVG. THICK.	0.235	mm	0.00925	inch
	MIN. THICK.	0.225	mm	0.00885	inch
	DIAMETER	1.02 ± 0.02	mm	0.04016±0.00787	inch
	MATERIAL	HDPE			
	COLOR CODES	1.BLUE × WHITE/BLUE STRIPE 2.ORANGE × WHITE/ORANGE STRIPE 3.GREEN × WHITE/GREEN STRIPE 4.BROWN × WHITE/BROWN STRIPE			
SHIELDED	PAIR STRANDED	2 CORES STRANDED			
	ASSEMBLY STRANDED	4 PAIR STRANDED			
	MYLAR TAPE	22 × 0.025	mm	0.86614x0.00098	inch
	DRAIN WIRE	7/0.195±0.01	mm (TINNED COPPER)	0.27559/0.00767±0.00039	inch
	AL-MYLAR TAPE	20 × 0.065	mm	0.78740x0.00255	inch
JACKETED	AVG. THICK.	0.50	mm	0.01968	inch
	MIN. THICK.	0.47	mm	0.01850	inch
	DIAMETER	6.10 ± 0.20	mm	0.24015±0.00787	inch
	MATERIAL	PVC			
	COLOR	Green			
PACKAGING	Reelex or Spool	Spool			

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ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM			24AWG × 4P
RATING TEMP VOLTAGE			75°C 300V
CONDUCTOR RESISTANCE			9.38 OHM/100m/20°C MAX.
DIELECTRIC STRENGTH			AC 1.5 KV/2 SEC.
SPARK TEST			2.5 KV
INSULATION	UNAGED	TENSILE STRENGTH	2400 PSI MIN.(1.69 Kg/m m ²)
		ELONGATION	300% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(100°C×48HRS)
		ELONGATION	UNAGED MIN. 75%(100°C×48HRS)
JACKETED	UNAGED	TENSILE STRENGTH	2000 PSI MIN.(1.41 Kg/m m ²)
		ELONGATION	100% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 85%(100°C×240HRS)
		ELONGATION	UNAGED MIN. 50%(100°C×240HRS)
INSULATION SHRINKBACK			150m/m, 121°C±1°C×1HR ≤9.5m/m
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 UNBALANCE			330 pF/100m MAX.
CHARACTERISTIC IMPEDANCE			1 ~ 350 MHz 100±15 OHMS
STRUCTURAL RETURN LOSS			350 MHz 10.6dB MIN.
PROPAGATION DELAY			350MHz 536nS/100m MAX.
DELAY SKEW			1 ~ 350 MHz 40nS/100m MAX.
MARKING :			
BLACK BOX CORPORATION GUARANTEED FOR LIFE (724)746-5500 --- CATEGORY 5E SHIELDED --- E196163-P (UL) C(UL) CM FTP 75°C 4PR 24AWG TIA/EIA-568-B.2 CAT 5E TESTED TO 350MHZ MM-YY XXXFT			

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Electrical Performance

ITEM(dB) Frequency (MHz)	IL MAX. (dB/100m)	NEXT MIN. (dB)	ACR MIN. (dB)	PS. NEXT MIN. (dB)	PS. ACR MIN. (dB)	ACRF MIN. (dB/100m)	PS. ACRF MIN. (dB/100m)	R.L. MIN. (dB)
1	2.0	65.3	63.3	62.3	60.3	63.8	60.8	20.0
4	4.1	56.3	52.2	53.3	49.2	51.7	48.7	23.0
8	5.8	51.8	46.0	48.8	43.0	45.7	42.7	24.5
10	6.5	50.3	43.8	47.3	40.8	43.8	40.8	25.0
16	8.2	47.3	39.1	44.3	36.1	39.7	36.7	25.0
20	9.3	45.8	36.5	42.8	33.5	37.8	34.8	25.0
25	10.4	44.3	33.9	41.3	30.9	35.8	32.8	24.3
31.25	11.7	42.9	31.2	39.9	28.2	33.9	30.9	23.6
62.5	17.0	38.4	21.4	35.4	18.4	27.8	24.8	21.5
100	22.0	35.3	13.3	32.3	10.3	23.8	20.8	20.1
155	28.1	32.5	4.4	29.5	1.4	20.0	17.0	18.8
200	32.4	30.8	N.A	27.8	N.A	17.7	14.7	18.0
300	41	28.2	N.A	25.2	N.A	14.2	11.2	16.8
350	44.9	27.1	N.A	24.1	N.A	12.9	9.9	16.3

