

SPECIFICATION SHEET

PART NUMBER : EVNSL0618A-1000

STYLE : 75°C 300V
COMMUNICATION CABLE

DESCRIPTION: Category 6 Black Bulk Cable
400 MHz,Shielded,Plenum

RECOGNIZED: UL

BLACK BOX NETWORK SERVICES

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STYLE	75°C 300V COMMUNICATION CABLE	
SIZE	FTP 24AWG×4P	ESTABLISHED DATE : Aug/26/2008
STANDARD : UL444 & ISO/IEC 11801 & TIA/EIA-568-B.2 CAT 6; 2002/95/EC(RoHS)		
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±0.00078 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±0.00078 inch
	MATERIAL	FEP
	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
	FILLER(SLOT)	FEP ISOLATOR SEPARATOR
	ASSEMBLY STRANDED	4 PAIR STRANDED
	MYLAR TAPE	22 × 0.025 mm 0.86614x0.00098 inch
	DRAIN WIRE	1/0.43±0.01 mm (TINNED COPPER) 0.03937/0.01692±0.00767 inch
	AL-MYLAR TAPE	23 × 0.065 mm 0.90551x0.00255 inch
JACKETED	AVG. THICK.	0.43 mm 0.01692 inch
	MIN. THICK.	0.40 mm 0.01574 inch
	DIAMETER	7.00 ± 0.2 mm 0.27559±0.00078 inch
	MATERIAL	FR PVC(LOW SMOKE)
	COLOR	Black
PACKAGING	Reel 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	2500 PSI MIN.(1.76 Kg/m m ²)
		ELONGATION	200% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(232°C×168HRS)
		ELONGATION	UNAGED MIN. 75%(232°C×168HRS)
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			CMP
AC LEAKAGE CURRENT THROUGH OVERALL JACKET			AC 1500V≤10 mA
DC RESISTANCE UNBALANCE			5% MAX.
PAIR-TO-GROUND CAPACITANCE UNBALANCE			330 pF/100m MAX.
STRUCTURAL RETURN LOSS			400 MHz 10.0dB MIN.
PROPAGATION DELAY			400MHz 535.8nS/100m MAX.
DELAY SKEW			1 ~ 400 MHz 30nS/100m MAX.
MARKING :			
BLACK BOX CORPORATION GUARANTEED FOR LIFE (724)746-5500 --- CATEGORY 6 SHIELDED --- E196163-P C(UL)US CMP FTP 75°C 4PR 24AWG 3P VERIFIED ANSI/TIA-568-C. 2 CAT 6 TESTED TO 400MHZ MM-YY XXXXFT			

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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	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4	3.8	65.3	61.5	63.3	59.5	55.7	52.7	23.0
8	5.3	60.8	55.3	58.8	53.3	49.7	46.7	24.5
10	6.0	59.3	53.3	57.3	51.3	47.8	44.8	25.0
16	7.6	56.3	48.7	54.3	46.7	43.7	40.7	25.0
20	8.5	54.8	46.3	52.8	44.3	41.7	38.7	25.0
25	9.6	53.3	43.7	51.3	41.7	39.8	36.8	24.3
31.25	10.7	51.9	41.2	49.9	39.2	37.9	34.9	23.6
62.5	15.4	47.4	32.0	45.1	30.0	31.8	28.8	21.5
100	19.8	44.3	24.5	42.3	22.5	27.8	24.8	20.1
155	25.1	41.5	16.4	39.5	14.4	23.9	20.9	18.8
200	29.0	39.8	10.8	37.8	8.8	21.7	18.7	18.0
250	32.8	38.3	5.5	36.3	3.5	19.8	16.8	17.3
300	36.4	37.2	0.8	35.2	0	18.2	15.2	16.8
400	43.0	35.3	NA	33.3	NA	15.7	12.7	15.9

