

SPECIFICATION SHEET

PART NUMBER : EVNSL0501A-1000

STYLE : 75°C 300v

COMMUNICATION CABLE

DESCRIPTION : Category 5e Bulk Cable, 350 MHz, Shielded, PVC – Blue, 24 AWG,
Solid, F/UTP, CMR

RECOGNIZED : UL 、 ETL

BLACK BOX CORPORATION

BLACK BOX NETWORK SERVICES

SPECIFICATION

STYLE	60°C 300V COMMUNICATION CABLE	
SIZE	UTP 24AWG×4P	ESTABLISHED DATE: June/16/2022
STANDARD : E196163-C c(UL)us CM & ETL VERIFIED TO ANSI/TIA-568.2-D APPLICATION : LAN CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK CONSTRUCTION:		
CONDUCTOR	SIZE	24AWG
	CONSTRUCTION	STRANDED BARE COPPER
	COND. DIAM.	1/24AWG
INSULATION	AVG. THICK.	0.284 mm 0.01118 inch
	MIN. THICK.	0.251 mm 0.00988 inch
	DIAMETER	1.10 ± 0.05 mm 0.04331±0.00197 inch
	MATERIAL	Polyethylene
	COLOR CODES	1.BLUE × WHITE/BLUE STRIPE 2.ORANGE × WHITE/ORANGE STRIPE 3.GREEN × WHITE/GREEN STRIPE 4.BROWN × WHITE/BROWN STRIPE
CABLING	PAIR	2 single conductors paired
	FILLER(SPINE)	N/A
	ASSEMBLY STRANDED	4 twisted pairs
SHIELD	OVERALL SHIELD & MATERIAL	AL/Polyester , 25% overlap
	DRAIN WIRE	26AWG solid tinned copper
JACKETED	AVG. THICK.	0.5 mm 0.02087inch
	MIN. THICK.	0.45 mm 0.01772inch
	DIAMETER	6.30± 0.30 mm 0.2480±0.01181 inch
	MATERIAL	PVC
	COLOR	Blue - RAL 5015
	RIP CORD	NO
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.
MUTUAL CAPACITANCE			5.6 nF/100M MAX.
DIELECTRIC STRENGTH			DC 2.5KV/2SECONDS.
SPARK TEST			2500V
INSULATION	UNAGED	TENSILE	2400 PSI MIN
		ELONGATION	300% MIN.
	AGED	TENSILE	UNAGED MIN. 75%(100°C×48HRS)
		ELONGATION	UNAGED MIN. 75%(100°C×48HRS)
JACKETED	UNAGED	TENSILE	2000 PSI MIN
		ELONGATION	100% MIN.
	AGED	TENSILE	UNAGED MIN. 75%(100°C×168HRS)
		ELONGATION	UNAGED MIN. 50%(100°C×168HRS)
INSULATION SHRINKBACK			150mm, 100°C±2°C×1HR≤7.5mm
COLD BENDTEST			-20°C×4HRS NO CRACK
FLAME RETARDANT TEST			CMR
AC LEAKAGE CURRENT THROUGH OVERALL JACKET			AC 1500V≤10mA
DC RESISTANCE UNBALANCE			2 %/ 20°C MAX
PAIR-TO-GROUND CAPACITANCE			330 pF/100m MAX.
PROPAGATION DELAY			100 MHz 537nS/100m MAX.
DELAY SKEW			1~100MHz45nS/100mMAX.
PRINTING: BLACK BOX CORPORATION --- CATEGORY 5E SHIELDED --- E196163-C (UL) C(UL) CMR F/UTP 75°C 4PR 24AWG ANSI/TIA 568.2-D CAT 5E TESTED TO 350MHZ YY-MM XXXXFT(countdown circulated length in feet and printing per two feet)			

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Electrical performance (100 METER LOOP)

ITEM(dB)	IL	NEXT	ACR	PS. NEXT	PS. ACR	ACRF	PS. ACRF	R.L.
Frequency (MHz)	MAX. dB/100m	MIN. (dB)	MIN. (dB)	MIN. (dB)	MIN. (dB)	MIN. (dB)	MIN. (dB)	MIN. (dB)
1	2.0	65.3	63.3	62.3	60.3	63.8	63.8	20.0
4	4.1	56.3	52.2	53.3	49.2	51.8	51.8	23.0
8	5.8	51.8	46.0	48.8	43.0	45.7	45.7	24.5
10	6.5	50.3	43.8	47.3	40.8	43.8	43.8	25.0
16	8.2	47.2	39.0	44.2	36.0	39.7	39.7	25.0
20	9.3	45.8	36.5	42.8	33.5	37.8	37.8	25.0
25	10.4	44.3	33.9	41.3	30.9	35.8	35.8	24.3
31.25	11.7	42.9	31.2	39.9	28.2	33.9	33.9	23.6
62.5	17.0	38.4	21.4	35.4	18.4	27.9	27.9	21.5
100	22.0	35.3	13.3	32.3	10.3	23.8	23.8	20.1
200	32.4	30.8	-	27.8	-	17.7	17.8	18.0
250	36.9	29.3	-	26.3	-	15.8	15.8	17.3
300	41.0	28.1	-	25.1	-	14.3	14.3	16.8
350	44.9	27.1	-	24.1	-	12.9	12.9	16.3

Between 100 and 350MHZ is only for reference