

SPECIFICATION FOR APPROVAL

DOCUMENT : EYNLSF643AW-PB-1000

STYLE : 75°C 300V
COMMUNICATION CABLE

DESCRIPTION: Category 6 LSZH Bulk Cable
Shielded, Solid - Red

RECOGNIZED: 3P

BLACK BOX NETWORK SERVICES

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STYLE	75°C 300V COMMUNICATION CABLE	
SIZE	F/UTP 23AWG×4P	ESTABLISHED DATE : Feb/29/2012
STANDARD : ISO/IEC 11801 & EN50173-1 & IEC 60332-1-2 754 1034 811 HD 624.7 TIA CAT 6		
APPLICATION : LOCAL AREA NETWORK CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK		
CONSTRUCTION :		
CONDUCTOR	SIZE	23AWG
	CONSTRUCTION	SOLID BARE COPPER
	COND. DIAM.	1/0.550±0.02 mm 0.02165±0.00078 inch
INSULATION	AVG. THICK.	0.250 mm 0.00984 inch
	MIN. THICK.	0.240 mm 0.00944 inch
	DIAMETER	1.050 ± 0.02 mm 0.04133±0.00078 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
	FILLER(SLOT)	PE ISOLATOR SEPARATOR
	ASSEMBLY STRANDED	4 PAIR STRANDED
	MYLAR TAPE	25 × 0.025 mm 0.98425x0.00098 inch
	DRAIN WIRE	7/0.16±0.01 mm (TINNED COPPER) 0.27559/0.00629±0.00039 inch
	AL-MYLAR TAPE	23 × 0.063 mm 0.90551x0.00248 inch
JACKETED	AVG. THICK.	0.45 mm 0.01771 inch
	MIN. THICK.	0.40 mm 0.01574 inch
	DIAMETER	7.20 ± 0.20 mm 0.28346±0.00787 inch
	MATERIAL	LSZH
	COLOR	Red
PACKAGING	Reel or Spool	Spool

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ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM			23AWG × 4P
RATING TEMP VOLTAGE			75°C 300V
CONDUCTOR RESISTANCE			9.38 OHM/100m/20°C MAX.
DIELECTRIC STRENGTH			AC 1.5 KV/2SEC.
SPARK TEST			2.5 KV
INSULATION	UNAGED	TENSILE STRENGTH	2176 PSI MIN. (1.53 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	1306 PSI MIN.(0.92 Kg/m m ²)
		ELONGATION	100% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 70%(100°C×168HRS)
		ELONGATION	UNAGED MIN. 50%(100°C×168HRS)
INSULATION SHRINKBACK			150m/m, 121°C±1°C×1HR≤9.5m/m
COLD BEND TEST			AT -20°C×OD*8 NO CRACK
FLAME RETARDANT TEST			IEC 60332-1-2
ACID GAS EVOLUTION			PH≥4.3
SMOK GENERATION			60% MIN(TRANSMISSION OF LIGHT)
DC RESISTANCE UNBALANCE			5% MAX.
PAIR-TO-GROUND CAPACITANCE UNBALANCE			330 pF/100m MAX.
CHARACTERISTIC IMPEDANCE			1 ~ 250 MHz 100±15 OHMS
PROPAGATION DELAY			250 MHz 534 nS/100m MAX.
DELAY SKEW			1 ~ 250 MHz 40 nS /100m MAX.
MARKING :			
BLACK BOX CORPORATION GUARANTEED FOR LIFE (724)746-5500 --- CATEGORY 6 SHIELDED			
--- F/UTP 4PR 23AWG LSZH 3P VERIFIED ANSI/TIA-568-C.2 CAT 6 MM-YY XXXXFT			

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Electrical Performance

ITEM(dB) Frequency (MHz)	IL MAX. (dB/100m)	NEXT MIN. (d B)	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

