

SPECIFICATION SHEET

PART NUMBER : EYN864A-PB-1000

STYLE : 75°C 300V
COMMUNICATION CABLE

DESCRIPTION: GigaTrue 550,Violet
CAT6 550MHz,PVC

RECOGNIZED: UL、 ETL、 3P

BLACK BOX NETWORK SERVICES

BLACK BOX NETWORK SERVICES

SPECIFICATION

STYLE	75°C 300V COMMUNICATION CABLE	
SIZE	UTP 23AWG×4P	ESTABLISHED DATE : Apr/23/2003
STANDARD : UL444 & ISO/IEC 11801 CLASS E & TIA/EIA-568-B.2-1 CAT 6 EN71-3 & EPA3050B & 2002/95/EC (RoHS) UL SAFETY VOL.1 SEC. 13.		
APPLICATION : ULTRA HIGH PERFORMANCE LAN CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK		
CONSTRUCTION :		
CONDUCTOR	SIZE	23AWG
	CONSTRUCTION	SOLID BARE COPPER
	COND. DIAM.	1/0.560±0.02 mm 0.02204±0.00078 inch
INSULATION	AVG. THICK.	0.210 mm 0.00826 inch
	MIN. THICK.	0.200 mm 0.00787 inch
	DIAMETER	0.98 ± 0.03 mm 0.03858±0.00118 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 (SPLINE)	PE ISOLATOR SEPARATOR
	ASSEMBLY STRANDED	4 PAIR STRANDED
JACKETED	AVG. THICK.	0.50 mm 0.01968 inch
	MIN. THICK.	0.45 mm 0.01771 inch
	DIAMETER	6.00 ± 0.40 mm 0.23622±0.01574 inch
	MATERIAL	PVC
	COLOR	Violet
	RIP CORD	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PACKAGING	Reel or Spool	Reel

BLACK BOX NETWORK SERVICES

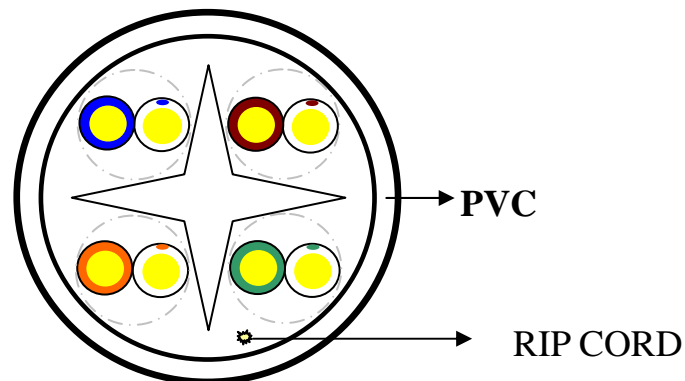
SPECIFICATION

ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM		23AWG × 4P	
RATING TEMP VOLTAGE		75°C 300V	
CONDUCTOR RESISTANCE		9.38 OHM/100m/20°C MAX.	
MUTUAL CAPACITANCE		56 pF/M MAX.	
DIELECTRIC STRENGTH		AC 1.5 KV/MIN.	
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		CMR	
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 ~ 550 MHz 100±15 OHMS	
STRUCTURAL RETURN LOSS		550 MHz 8.6dB MIN.	
PROPAGATION DELAY		550 MHz 536nS/100m MAX.	
DELAY SKEW		1 ~ 550 MHz 30nS/100m MAX.	
PRINTING LEGEND : (0002~1000FT)			
BLACK BOX CORPORATION GUARANTEED FOR LIFE (724)746-5500 --- GIGATRUE CATEGORY 6 --- E196163-P (UL) C(UL) CMR 75°C4PR 23AWG ETL VERIFIED TIA/EIA-568-B. 2-1 CAT 6 TESTED TO 550MHZ MM-YY XXXXFT			

BLACK BOX NETWORK SERVICES SPECIFICATION

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	76.3	74.3	74.3	72.3	67.8	64.8	20.0
4	3.8	67.3	63.5	65.3	61.5	55.7	52.7	23.0
8	5.3	62.8	57.5	60.8	55.5	49.7	46.7	24.5
10	6.0	61.3	55.3	59.3	53.3	47.8	44.8	25.0
16	7.6	58.3	50.7	56.3	48.7	43.7	40.7	25.0
20	8.5	56.8	48.3	54.8	46.3	41.7	38.7	25.0
25	9.5	55.3	45.8	53.3	43.8	39.8	36.8	24.3
31.25	10.7	53.9	43.2	51.9	41.2	37.9	34.9	23.6
62.5	15.4	49.4	34.0	47.4	32.0	31.8	28.8	21.5
100	19.8	46.3	26.5	44.3	24.5	27.8	24.8	20.1
155	25.1	43.5	18.4	41.5	16.4	23.9	20.9	18.8
200	29.0	41.8	12.8	39.8	10.8	21.7	18.7	18.0
250	32.8	40.3	7.5	38.3	5.5	19.8	16.8	17.3
300	36.4	39.2	2.8	37.2	0.8	18.2	15.2	16.8
400	43.0	37.3	N.A	35.3	N.A	15.7	12.7	15.9
550	51.8	35.2	N.A	33.2	N.A	12.9	9.9	14.9



BLACK BOX NETWORK SERVICES SPECIFICATION

Electrical performance (100METER LOOP)

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	79.3	77.3	77.3	75.3	69.8	66.8	20.0
4	3.8	70.3	66.5	68.3	64.5	57.7	54.7	23.0
8	5.3	65.8	60.5	63.8	58.5	51.7	48.7	24.5
10	5.9	64.3	58.4	62.3	56.4	49.8	46.8	25.0
16	7.5	61.3	53.8	59.3	51.8	45.7	42.7	25.0
20	8.4	59.8	51.4	57.8	49.4	43.8	40.8	25.0
31.25	10.5	56.9	46.4	54.9	44.4	39.9	36.9	25.0
62.5	15.1	52.4	37.2	50.4	35.2	33.9	30.8	21.5
100	19.4	49.3	29.9	47.3	27.9	29.8	26.8	20.1
155	24.6	46.5	21.9	44.5	19.9	26.0	23.0	18.8
200	28.3	44.8	16.5	42.8	14.5	23.8	20.8	18.0
250	32.0	43.3	11.4	41.3	9.4	21.8	18.8	17.3
300	35.4	42.2	6.8	40.2	4.8	20.3	17.3	16.8
400	41.6	40.3	0	38.3	0	17.8	14.8	15.9
500	47.3	38.8	N.A	36.8	N.A	15.8	12.8	15.2
550	49.9	38.2	N.A	36.2	N.A	15.0	12.0	14.9