

SPECIFICATION SHEET

PART NUMBER : EYN872A-PB-1000

STYLE : 75°C 300V
COMMUNICATION CABLE

DESCRIPTION: GigaTrue 550, Yellow
CAT6 550MHz, PVC

RECOGNIZED: UL、ETL、3P

BLACK BOX NETWORK SERVICES

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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	Yellow		
	RIP CORD	☒ YES ☐ NO		
PACKAGING	Reelex or Spool	Reelex		

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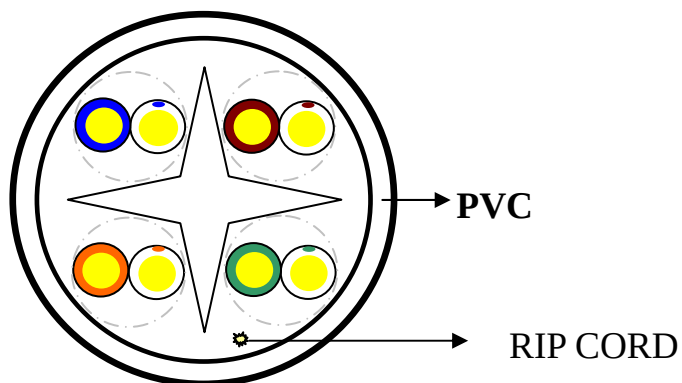
ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM			23AWG × 4P
RATING TEMP VOLTAGE			75°C 300V
CONDUCTOR RESISTANCE			9.38 OHM/100m/20°C MAX.
MUTUAL CAPACITANCE			56 pF/M MAX.
DIELECTRIC STRENGTH			AC 1.5 KV/MIN.
SPARK TEST			2.5 KV
INSULATION	UNAGED	TENSILE STRENGTH	2400 PSI MIN. (1.69 Kg/m m ²)
		ELONGATION	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			

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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	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



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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