

# **SPECIFICATION SHEET**

PART NUMBER : EYN851A-PB-1000

STYLE : 75°C 300V  
COMMUNICATION CABLE

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DESCRIPTION: GagaBase 350,Blue  
CAT5e 350MHz,PVC

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RECOGNIZED: UL 、 ETL 、 3P

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**BLACK BOX NETWORK SERVICES**

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## SPECIFICATION

STYLE	75°C 300V COMMUNICATION CABLE	
SIZE	UTP 24AWG×4P	ESTABLISHED DATE : Nov06/2002
STANDARD : UL444 & EN50173-1 & TIA/EIA-568-B.2 CAT 5E ; EN71-3 & EPA3050B &2002/95/EC (RoHS) UL SAFETY VOL.1 SEC. 13.		
APPLICATION : HIGH PERFORMANCE LAN CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK		
CONSTRUCTION :		
CONDUCTOR	SIZE	24AWG
	CONSTRUCTION	SOLID BARE COPPER
	COND. DIAM.	1/0.506±0.03 mm 0.01992±0.00118 inch
INSULATION	AVG. THICK.	0.187 mm 0.00736 inch
	MIN. THICK.	0.177 mm 0.00696 inch
	DIAMETER	0.880 ± 0.01 mm 0.03464±0.00039 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
STRANDED	PAIR STRANDED	2 CORES STRANDED
	ASSEMBLY STRANDED	4 PAIR STRANDED
JACKETED	AVG. THICK.	0.45 mm 0.01771 inch
	MIN. THICK.	0.41 mm 0.01614 inch
	DIAMETER	4.80 ± 0.20 mm 0.18897±0.00787 inch
	MATERIAL	PVC
	COLOR	Blue
	RIP CORD	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PACKAGING	Reelex or Spool	Reelex

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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		56 pF/M MAX.	
DIELECTRIC STRENGTH		AC 1.5 KV/2 SEC.	
SPARK TEST		2.5 KV	
INSULATION	UNAGED	TENSILE STRENGTH	2400 PSI MIN. (1.69 Kg/m <sup>2</sup> )
		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 <sup>2</sup> )
		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 ~ 350 MHz 100±15 OHMS	
INPUT IMPEDANCE		1 ~ 100 MHz 100±15 OHMS	
VELOCITY OF PROPAGATION		62.1% MIN. AT 350MHz	
PROPAGATION DELAY		350 MHz 536nS/100m MAX.	
DELAY SKEW		1 ~ 350 MHz 40nS/100m MAX.	
MARKING : (0002FT~1000FT)			
BLACK BOX CORPORATION GUARANTEED FOR LIFE (724)746-5500 --- GIGABASE CATEGORY 5E --- E196163-P (UL) C(UL) CMR 75°C 4PR 24AWG ETL VERIFIED TIA/EIA-568-B. 2 CAT 5E TESTED TO 350MHZ 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	65.3	63.3	62.3	60.3	63.8	60.8	20.0
4	4.1	56.3	52.2	53.3	49.2	51.7	48.7	23.0
8	5.8	51.8	46.0	48.8	43.0	45.7	42.7	24.5
10	6.5	50.3	43.8	47.3	40.8	43.8	40.8	25.0
16	8.2	47.3	39.1	44.3	36.1	39.7	36.7	25.0
20	9.3	45.8	36.5	42.8	33.5	37.8	34.8	25.0
25	10.4	44.3	33.9	41.3	30.9	35.8	32.8	24.3
31.25	11.7	42.9	31.2	39.9	28.2	33.9	30.9	23.6
62.5	17.0	38.4	21.4	35.4	18.4	27.8	24.8	21.5
100	22.0	35.3	13.3	32.3	10.3	23.8	20.8	20.1
155	28.1	32.5	4.4	29.5	1.4	20.0	17.0	N.A
200	32.4	30.8	N.A	27.8	N.A	17.7	14.7	N.A
240	36	29.6	N.A	26.6	N.A	16.2	13.2	N.A
300	41	28.2	N.A	25.2	N.A	14.2	11.2	N.A
350	44.9	27.1	N.A	24.1	N.A	12.9	9.9	N.A

