

SPECIFICATION SHEET

PART NUMBER : EYN849A-PB-1000

STYLE : 75°C 300V
COMMUNICATION CABLE

DESCRIPTION: GagaBase 350,Red
CAT5e 350MHz,PVC

RECOGNIZED: UL 、 ETL 、 3P

BLACK BOX NETWORK SERVICES

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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	Red		
	RIP CORD	☒ YES ☐ 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 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 ~ 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

