

SPECIFICATION SHEET

PART NUMBER : EYN850A-PB-1000

STYLE : 75°C 300V
COMMUNICATION CABLE

DESCRIPTION: GigaBase 350,Blue
CAT5e 350MHz,Plenum

RECOGNIZED: UL 、 ETL 、 3P.

BLACK BOX NETWORK SERVICES

BLACK BOX NETWORK SERVICES

SPECIFICATION

STYLE	75°C 300V COMMUNICATION CABLE	
SIZE	UTP 24AWG×4P	ESTABLISHED DATE : Nov/06/2002
STANDARD : UL444,910 & TIA/EIA-568-B.2 CAT 5E; EN71-3 & EPA3050B &2002/95/EC (RoHS) UL SAFETY VOL.1 SEC. 11.		
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.	1/0.510±0.03 mm 0.02007±0.00118 inch
INSULATION	AVG. THICK.	0.175 mm 0.00688 inch
	MIN. THICK.	0.165 mm 0.00649 inch
	DIAMETER	0.86 ± 0.020 mm 0.03385±0.00078 inch
	MATERIAL	FEP
	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.	0.35 mm 0.01377 inch
	MIN. THICK.	0.32 mm 0.01259 inch
	DIAMETER	4.50 ± 0.20 mm 0.17716±0.00787 inch
	MATERIAL	FR PVC(LOW SMOKE)
	COLOR	Blue
	RIP CORD	☒ YES ☐ NO
PACKAGING	Reel or Spool	Reel

BLACK BOX NETWORK SERVICES

SPECIFICATION

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	2500 PSI MIN. (1.76 Kg/m m ²)
		ELONGATION	200% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(232°C×168HRS)
		ELONGATION	UNAGED MIN. 75%(232°C×168HRS)
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			CMP
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) CMP 75°C 4PR 24AWG ETL VERIFIED TIA/EIA-568-B. 2 CAT 5E TESTED TO 350MHZ 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	65.3	63.3	62.3	60.3	63.8	60.8	20.0
4	4.1	56.3	52.2	53.3	53.2	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	18.8
200	32.4	30.8	N.A	27.8	N.A	17.7	14.7	18.0
240	36	29.6	N.A	26.6	N.A	16.2	13.2	17.4
300	41	28.2	N.A	25.2	N.A	14.2	11.2	16.8
350	44.9	27.1	N.A	24.1	N.A	12.9	9.9	16.3

