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Black Box Corporation.

# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

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## GIGABASE 350 CAT5E, 350-MHz BULK CABLES

*These high-performance 350-MHz cables can be used in a wide variety of applications.*

### Key Features

- ▶ **For 10/100/1000BASE-T, voice, T1, 155-Mbps ATM, and other high-speed applications.**
- ▶ **Get 1100 feet for the price of 1000 feet.**
- ▶ **With the Accu-Pull measuring system, you'll always know how much cable is left on the spool.**
- ▶ **Tested to 350 MHz.**
- ▶ **Low attenuation.**
- ▶ **Low Power Sum crosstalk.**
- ▶ **Extra headroom provides room for future growth.**
- ▶ **Boxed reel of 1100 feet for easy dispensing.**

GigaBase<sup>®</sup> 350 CAT5e, 350-MHz Bulk Cables (1100 feet [335.3 m] long) come in a box for convenient dispensing.

Plenum and PVC styles are available. Both types comply with ISO/IEC 11801, ANSI/TIA/EIA 568A (Category 5), ANSI/ICEA S-90-661 (Category 5X-100), and NEMA WC 63.1 (Category 5).

This bulk cable features the Accu-Pull Measuring System: Descending sequential foot markings let you know exactly how much is left on the spool.

Both cable types are also UL<sup>®</sup> listed. The plenum version is rated

as Type CMP, and the PVC version is rated Type CMR. In addition, the cables are UL PCC compliant, with the plenum version designated FT6 and the PVC version FT4.

These cables are sweep tested and characterised to 350 MHz. They're perfect for many applications, including 10/100/1000BASE-T, 4-/16-Mbps Token Ring, 100VG AnyLAN, 100-Mbps TP-PMDD, 55-/155-Mbps ATM, and 622-Mbps ATM.

The plenum cables are insulated with FEP, and they have a compound jacket that is rated to

32°F (0°C) for low-temperature handling. They're recommended for installation in ducts, plenums, and other spaces used as environmental air returns.

The PVC cables have polyolefin insulation and a flame-retardant jacket. Use these cables for installation in vertical riser and general horizontal applications.

All GigaBase 350 CAT5e, 350-MHz Bulk Cables have 24 AWG solid bare annealed copper conductors, a rip cord applied lengthwise under the jacket, various pairing lays, and sequential footage markings.

### Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognise any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.
- It's 9 p. m. and you need help, but your vendor's tech support line is closed.

According to a survey by Data Communications magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive

falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.

# Electrical performance specifications.

Frequency MHz (maximum)	Attenuation dB/100 m (328 ft.) (maximum)	ACR dB/100 m (328 ft.) (minimum)	PS-ACR dB/100 m (328 ft.) (minimum)	NEXT dB (minimum)	PS-NEXT dB (minimum)	ELFEXT dB/100 m (minimum)	PS ELFEXT dB/100 m (minimum)	Return Loss dB (minimum)
1	2	66.3	64.3	68.3	66.3	63.8	60.8	20
4	4.1	55.2	53.2	59.3	57.3	51.7	48.7	23
8	5.8	49	47	54.8	52.8	45.7	42.7	24.5
10	6.5	46.8	44.8	53.3	51.3	43.8	40.8	25
16	8.2	42.1	40.1	50.3	59.3	39.7	36.7	25
20	9.3	39.5	37.5	48.8	46.8	37.8	34.8	25
25	10.4	36.9	34.9	47.3	45.3	35.8	32.8	24.3
31.25	11.7	34.2	32.2	45.9	43.9	33.9	30.9	23.6
62.5	17	24.4	22.4	41.4	39.4	27.8	24.8	21.5
100	22	16.3	14.3	38.3	36.3	23.8	20.8	20.1
155	28.1	7.4	5.4	35.5	33.5	20	17	18.8
200	32.4	1.4	0	33.8	31.8	17.7	14.7	18
240	36	N.A.	N.A.	32.6	30.6	16.2	13.2	17.4
300	41	N.A.	N.A.	31.2	29.2	14.2	11.2	16.8
350	44.9	N.A.	N.A.	30.1	28.1	12.9	9.9	16.3

## Specifications

**ACR:** 16.3 dB @ 100 MHz

**ACR PS:** 14.3 dB @ 100 MHz

**Attenuation:** 22 dB/100 m @ 100 MHz

**Cable Type:** 4-pair UTP

**Capacitance Unbalance (Maximum):** 3300 pF/km (pair to ground)

**Conductor:** 24 AWG, solid bare annealed copper

**Conductor Resistance:** 93.8 ohm/20°C maximum

**DC Resistance (Maximum):** 8.9 ohms/100 m (328 ft.)

**Delay Skew (Maximum):**

1–350 MHz: 40 nS/100 m

**Return Loss:** 38 dB @ 100 MHz

**Input Impedance:**

1–100 MHz: 100 ± 15 ohms;  
100–200 MHz: 100 ± 22 ohms

**NEXT:** 38.3 dB @ 100 MHz

**PS-NEXT:** 36.3 dB @ 100 MHz

**Velocity of Propagation (Minimum):**

62.1% @ 350 MHz

**Outside Diameter:**

Plenum: 0.17" (0.43 cm);  
PVC: 0.2" (0.51 cm)

**Weight:** Plenum: 25 lb./1100 ft.

(11.3 kg/335.3 m);  
PVC: 26 lb./1100 ft.  
(11.8 kg/335.3 m)

## Ordering Information

ITEM

CODE

GigaBase® 350 CAT5e, 350-MHz Bulk Cables, 24 AWG, 4-Pair, 1100-ft. (335.3-m), Boxed Reel

Plenum

Red .....EYN848A-1100

Blue .....EYN850A-1100

Yellow .....EYN854A-1100

White .....EYN852A-1100

Gray.....EYN856A-1100

Green.....EYN858A-1100

PVC

Red .....EYN849A-1100

Blue .....EYN851A-1100

Yellow .....EYN855A-1100

White .....EYN853A-1100

Gray.....EYN857A-1100

Green.....EYN859A-1100