GigaBase 350 CAT5e, 350-MHz Solid Bulk Cables

These high-performance 350-MHz cables are perfect for a wide variety of applications.

FEATURES

- **For 10BASE-T/100BASE-TX/1000BASE-T, voice, T1, 155-Mbps ATM, and other high-speed applications.**
- **Cables are either 1100 feet (335.2 meters) or 1000 feet (304.8 meters) long.**
- **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.**
- **Both boxed reel and pull box versions enable easy dispensing.**

Buyer's Guide — 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	NA	NA	32.6	30.6	16.2	13.2	17.4
300	41	NA	NA	31.2	29.2	14.2	11.2	16.8
350	44.9	NA	NA	30.1	28.1	12.9	9.9	16.3

OVERVIEW

GigaBase® 350 CAT5e, 350-MHz Solid Bulk Cables (1100 feet [335.2 m] or 1000 feet [304.8 m] long) come in a boxed reel or pull box for convenient dispensing.

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

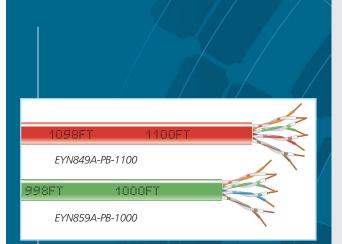These cables are sweep tested and characterized to 350 MHz. They're perfect for many applications, including 10BASE-T/100BASE-TX/1000BASE-T, 4-/16-Mbps Token Ring, 100VG, 100-Mbps TP-PMDD, 55-/155-Mbps ATM, and 622-Mbps ATM.

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

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.

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

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TECH SPECS

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 (Maximum) — 93.8 ohm/20°C
DC Resistance (Maximum) — 8.9 ohms/100 m (328 ft.)
Delay Skew (Maximum) — 1–350 MHz: 40 nS/100 m
Input Impedance —
    1–100 MHz: 100 ± 15 ohms; 100–200 MHz: 100 ± 22 ohms
NEXT — 38.3 dB @ 100 MHz
Outside Diameter —
    PVC: 0.2" (0.51 cm);
    Plenum: 0.17" (0.43 cm)
PS-NEXT — 36.3 dB @ 100 MHz
Return Loss — 38 dB @ 100 MHz
Velocity of Propagation (Minimum) — 62.1% @ 350 MHz
Weight — PVC: 26 lb./1100 ft. (11.8 kg/335.2 m) or 22 lb./1000 ft.
    (10 kg./304.8 m);
    Plenum: 25 lb./1100 ft. (11.3 kg/335.2 m) or 22 lb./1000 ft.
    (10 kg./304.8 m)

Item	Code
GigaBase® 350 CAT5e, 350-MHz Solid Bulk Cables, 24 AWG, 4-Pair	
Pull Box, 1000-ft. (304.8-m)	
PVC	
Blue	**EYN851A-PB-1000**
Gray	**EYN857A-PB-1000**
Green	**EYN859A-PB-1000**
Plenum	
Blue	**EYN850A-PB-1000**
White	**EYN852A-PB-1000**
Green	**EYN858A-PB-1000**
Pull Box, 1100-ft. (335.2-m)	
PVC	
White	**EYN853A-PB-1100**
Red	**EYN849A-PB-1100**
Plenum	
Yellow	**EYN854A-PB-1100**
Gray	**EYN856A-PB-1100**
Red	**EYN848A-PB-1100**
Boxed Reel, 1100-ft. (335.2-m)	
PVC	
Yellow	**EYN855A-1100**
Plenum	
Red	**EYN848A-1100**

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

Recognize 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.

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