

# IBM TotalStorage™ Enterprise Tape Drive 3590 High-Performance Cartridge Tape and Extended High-Performance Cartridge Tape



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## Highlights

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- **Designed to provide outstanding capacity, performance and reliability in 128-, 256- or 384-track formats**
- **Helps protect existing investments by residing in the IBM TotalStorage Enterprise Tape Library 3494 with IBM 3490 cartridges**
- **Supports flexibility with a choice of native media capacities: 10GB/20GB, 20GB/40GB or 30GB/60GB**

### High capacity

IBM 3590 Extended High-Performance Cartridge Tape continues the IBM focus on tape technology by doubling the length and providing twice the capacity of IBM 3590 High-Performance Cartridge Tape. These tape products increase the data storage capacity of half-inch cartridge tape. In addition, both types of cartridges can reside in the same physical space as IBM 3490 cartridges; they can also coexist in an IBM TotalStorage Enterprise Tape Library 3494.

### Cost-effectiveness

Higher capacity cartridges can help reduce the amount of equipment as well as the number of cartridges and tape mounts required in the tape environment. A reduction in the number of cartridges required for backup and restore operations can help lower operational costs throughout the enterprise.

### Sales and support

Assistance is available to answer product-related questions or obtain warranty product replacement. To locate your nearest source for ordering IBM 3590 High-Performance Cartridge Tape and Extended High-Performance Cartridge Tape, call 1-888-IBM-Media (1-888-426-6334) toll-free in the United States and Canada.

For more product information and country-specific phone numbers for those outside the U.S. and Canada, visit [www.ibm.com/storage/media](http://www.ibm.com/storage/media).

Custom labeling and initializing also can be obtained through these numbers.

## IBM 3590 Cartridge Tape at a glance

### Characteristics

Drive type	Linear half-inch cartridge
Media type	Metal Particle (MP)

### Cartridge capacity (with 3:1 compression)<sup>1</sup>

	High-Performance Cartridge Tape	Extended High-Performance Cartridge Tape
3590 B11/B1A	10GB (30GB <sup>1</sup> )	20GB (60GB <sup>1</sup> )
3590 E11/E1A	20GB (60GB <sup>1</sup> )	40GB (120GB <sup>1</sup> )
3590 H11/H1A	30GB (90GB <sup>1</sup> )	60GB (180GB <sup>1</sup> )

### Physical and magnetic characteristics

	High-Performance Cartridge Tape	Extended High-Performance Cartridge Tape
Substrate	Polyethylene Terephthalate (PET)	Polyethylene Naphthalate (PEN)
Substrate thickness	0.56 mils nominal (14.2 microns)	0.25 mils nominal (6.3 microns)
Total tape thickness	0.66 mils nominal (16.8 microns)	0.35 mils nominal (8.9 microns)
Tape length	1,050 ft nominal (320 meters)	2,080 ft nominal (634 meters)
Magnetic coercivity	1,625 Oe nominal (129.3 kA/m)	1,625 Oe nominal (129.3 kA/m)
Long-length durability	Minimum of 200 full file read-write passes	Minimum of 400 full file read-write passes
Short-length durability	Minimum of 40,000+ read-forward passes	Minimum of 80,000+ read-forward passes
Estimated archive life	Up to 30 years	Up to 30 years

### Physical dimensions

Cartridge size	4.92 in H x 4.29 in W x 0.97 in D (125 mm x 109 mm x 24.5 mm)
Cartridge weight	High-Performance Cartridge: 8.46 oz (240 grams) Extended High-Performance Cartridge: 8.80 oz (250 grams)

### Safety characteristics

Toxicity	Nonhazardous to human health in anticipated use
Flammability	Self-extinguishing per UL94

### Environmental recommendations

Operating conditions	Temperature: 60° to 90° F (15° to 32° C) Relative humidity: 20% to 80% Wet bulb (max): 78° F (26° C)
Storage conditions <sup>2</sup>	Temperature: 40° to 90° F (4° to 32° C) Relative humidity: 5% to 80% Wet bulb (max): 80° F (27° C)
Transportation conditions <sup>3</sup>	Temperature: 40° to 100° F (4° to 38° C) Relative humidity: 5% to 80% Wet bulb (max <sup>4</sup> ): 78° F (26° C)
Cartridge disposal	Classified as nonhazardous waste per EPA Regulation 40CFR261 and may be disposed as normal office trash

### Part numbers<sup>5</sup>

High-Performance Cartridge Tape	05H4434
Extended High-Performance Cartridge Tape	5H3188
Cleaning cartridge	05H4435
Cartridge magazine	9F4762

### Warranty

Warranty	10 years <sup>6</sup>
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<sup>1</sup>Depending on data content.

<sup>2</sup>Maximum of four weeks.

<sup>3</sup>Maximum of ten days.

<sup>4</sup>Maximum with no condensation.

<sup>5</sup>Additional part numbers can be found at [www.ibm.com/storage/media](http://www.ibm.com/storage/media).

<sup>6</sup>Limited to defects in materials and manufacture at the time of purchase; does not include wear from normal use or product misuse.



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