

*IBM magnetic media...from the industry leader  
at competitive prices*



# IBM Enhanced Capacity Cartridge System Tape

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## Highlights

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- 36-track serpentine longitudinal recording technique for improved capacity, performance, and reliability
- Same physical size as Cartridge System Tape and capable of coexisting in IBM half-inch cartridge libraries (3494 and 3495)
- Midrange capacity with outstanding price/performance ratios
- IBM-certified quality with an exceptional warranty

## Advanced tape technology

The IBM Enhanced Capacity Cartridge System Tape continues the IBM tradition of innovative tape technology by doubling the capacity of the Cartridge System Tape. When used with the IBM 3490 Magnetic Tape Subsystem and other compatible models, this cartridge can increase the capacity—depending on data characteristics—by an average of 12 times when compared to uncompact, original 3480 tape cartridges.

## Advanced tape benefits

The primary benefits of the IBM Enhanced Capacity Cartridge System Tape

are operational and space savings since a typical disk volume can be backed up on a single cartridge. In fact, using the Enhanced Capacity Cartridge in the 3490 and other compatible models provides an unattended disk backup capacity of 2.4 GB (based on a 3:1 compaction ratio).

Reducing the number of cartridges required for backup and restore operations can result in fewer cartridges to handle and less tapes in the tape library—simplifying overall operations and saving time, effort, and money.

## Sales and support

You can get assistance, answers to product-related questions, or arrange for a warranty product replacement—with just one call. To locate your nearest source for IBM Enhanced Capacity Cartridge System Tape, call the following IBM media numbers worldwide:

- 1-888-IBM-Media (1-888-426-6334) toll-free in the United States and Canada
- 1-972-881-0733 (x. 7530) in Latin America
- 00-31-43-350-2756 in Europe, the Middle East, and Africa
- 3-3808-8486 in Japan

For additional product information, visit:  
**[www.ibm.com/storage/media](http://www.ibm.com/storage/media)**



IBM Enhanced Capacity Cartridge System Tape



IBM 3490E Model F1A

## IBM Enhanced Capacity Cartridge System Tape at a glance

### Physical characteristics

|                 |  |
|-----------------|--|
| Tape drive type | Linear half-inch cartridge               |
| Substrate       | Treated polyethylene terephthalate (PET) |
| Thickness       |  |
| Substrate       | 0.56 mils nominal (14.2 microns)         |
| Total           | 0.66 mils nominal (16.8 microns)         |
| Length          | 1100 ft. nominal (335 meters)            |
| Weight          | 0.538 lbs. nominal (246 grams)           |

### Magnetic characteristics

|  |  |
|--|--|
| Intrinsic coercivity (Hci)   | 520 Oersteds (39.8 kA/m) $\pm$ 30 Oe using VSM with time constant of 0.3 seconds |
| Narrow band signal-to-noise (avg. read power over avg. integrated RMS noise power) | 30 dB minimum  |

### Error characteristics

|                                      |                           |
|--------------------------------------|---------------------------|
| Digital/system errors                |                           |
| Permanent errors                     | Zero                      |
| Temporary errors (recoverable error) | 8 maximum per cartridge   |
| ECC errors (corrected blocks)        | 400 maximum per cartridge |

### Safety characteristics

|              |  |
|--------------|--|
| Toxicity     | Non-hazardous to human health in anticipated use |
| Flammability | Per UL94-V2                                      |

### Leader block to cartridge latch

|                                 |                              |
|---------------------------------|------------------------------|
| Leader block to cartridge latch | Minimum of 5000 load/unloads |
|---------------------------------|------------------------------|

### Environmental recommendation

|   |  |
|---|--|
| Operating conditions                    |  |
| Temperature                             | 60 to 90° F (15 to 32° C)                    |
| Relative humidity                       | 20% to 80%                                   |
| Maximum wet bulb                        | 78° F (26° C) with no condensation formation |
| Storage conditions (four weeks maximum) |  |
| Temperature                             | 40 to 90° F (4 to 32° C)                     |
| Relative humidity                       | 5% to 80%                                    |
| Maximum wet bulb                        | 80° F (27° C) with no condensation formation |

### Shipping recommendation (ten days maximum)

|                   |  |
|-------------------|--|
| Unrecorded tape   |  |
| Temperature       | -10 to 120° F (-23 to 49° C)                 |
| Relative humidity | 5% to 80%                                    |
| Maximum wet bulb  | 80° F (27° C) with no condensation formation |
| Recorded tape     |  |
| Temperature       | 40 to 100° F (4 to 38° C)                    |
| Relative humidity | 5% to 80%                                    |
| Maximum wet bulb  | 78° F (26° C) with no condensation formation |

### Part numbers

|                                   |         |
|-----------------------------------|---------|
| IBM part number                   | 09G4494 |
| Related products and part numbers |         |
| 3480/3490 Conductive Cleaning     | 05H3917 |
| 3480 Tape Cartridge               | 4479753 |
| 3480 Cleaning Cartridge           | 4780527 |

## Ten year limited warranty

IBM warrants that on the date of original purchase, IBM supply products are free from defects in material and workmanship. If, during the warranty period, you believe the IBM supply product to be defective, return it to your place of purchase. IBM will, at its option, either repair or replace a defective supply product with one which is at least functionally equivalent. If IBM is unable to do so, your money, as evidenced by paid invoice or receipt, will be refunded.

Warranty does not include repair or exchange resulting from misuse, accident, disaster, abuse,

modifications, improper storage or operating environment, malfunctioning equipment, or wear and tear. The supply product IBM replaces becomes its property, and the replacement supply product becomes your property.

Limited warranty includes Warranty Service in those countries where IBM products are sold by IBM or IBM Business Partners (registration required). For more information, contact your IBM representative or reseller.



IBM 3490E with four F11 tape drives



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Removable Media Storage Solutions  
9000 S. Rita Road  
Tucson, AZ 85744

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