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Cable Matters 104007-18x3

Cable Matters 3-Pack 6Gbps SATA III Cable User Manual

Model: 104007-18x3

1. Product Overview

The Cable Matters 3-Pack 6Gbps SATA III Cables are designed for connecting motherboards, host controllers, and SATA-compatible hard disk drives (HDDs), solid-state drives (SSDs), and optical drives. These cables offer high-speed data transfer and reliable connections for various computing needs.

- **High-Speed Data Transfer:** Supports SATA 3 specification with transfer speeds up to 6Gb/s, offering approximately double the effective speed of Serial ATA 2 (300Mb/s).
- **Ergonomic Design:** Features a flexible jacket for easy cable routing and management. Both connectors are equipped with latches to ensure a secure and stable connection.
- **Durable Construction:** Manufactured with high-quality materials and reinforced connectors for long-term stable data transfer.
- **Versatile Compatibility:** Compatible with SATA I, SATA II, and SATA III devices, including a wide range of SSDs, HDDs, and optical drives from various manufacturers.
- **Economical 3-Pack:** Provides multiple cables for connecting several devices or for use as spares in various setups.



Image 1.1: The Cable Matters 3-Pack 6Gbps SATA III Cables, designed for high-speed data transfer.

2. Setup Instructions

Follow these steps to properly connect your SATA device using the Cable Matters SATA III cable:

1. **Prepare Your System:** Before installation, ensure your computer is powered off and unplugged from the wall outlet. Open your computer case to access the motherboard and storage drive bays.
2. **Identify SATA Ports:** Locate an available SATA data port on your motherboard. These are typically small, L-shaped connectors. Also, identify the SATA data port on your SSD, HDD, or optical drive.
3. **Connect the Cable:** Gently insert one end of the SATA cable into the SATA data port on your motherboard. Ensure the L-shaped connector aligns correctly. Press firmly until the latch clicks into place, securing the connection.
4. **Connect to Device:** Connect the other end of the SATA cable to the SATA data port on your storage device (SSD, HDD, or optical drive). Again, ensure proper alignment and listen for the latch to click.
5. **Power Connection:** Remember that SATA storage devices also require a separate SATA power cable from your power supply unit (PSU). Connect the SATA power cable to your device if it's not already connected.
6. **Cable Management:** Utilize the flexible design of the cable and any included cable ties to route the cable neatly within your computer case, improving airflow and aesthetics.
7. **Final Check:** Double-check all connections to ensure they are secure before closing your computer case and powering on your system.



Image 2.1: Proper connection of a SATA cable to a storage device within a PC.



Image 2.2: Detail of the SATA connector with its locking latch for secure attachment.

3. Operating Instructions

Once the SATA cable is securely connected, the operation is largely handled by your computer's operating system and hardware. The cable facilitates data transfer between your motherboard and the connected storage device.

- **Device Recognition:** Upon powering on your computer, the operating system should automatically detect the newly connected SATA device. For new drives, you may need to initialize and format them through Disk Management (Windows) or Disk Utility (macOS/Linux) before they appear as usable storage.
- **Data Transfer:** The cable will enable high-speed data transfer for reading from and writing to your SSD, HDD, or optical drive. Performance will be optimized for SATA III (6Gbps) speeds if both your motherboard and device support it.
- **Hot-Swapping (if supported):** Some motherboards and operating systems support SATA hot-swapping, allowing you to connect or disconnect certain SATA devices while the system is running. Consult your motherboard and operating system documentation for details on this feature.

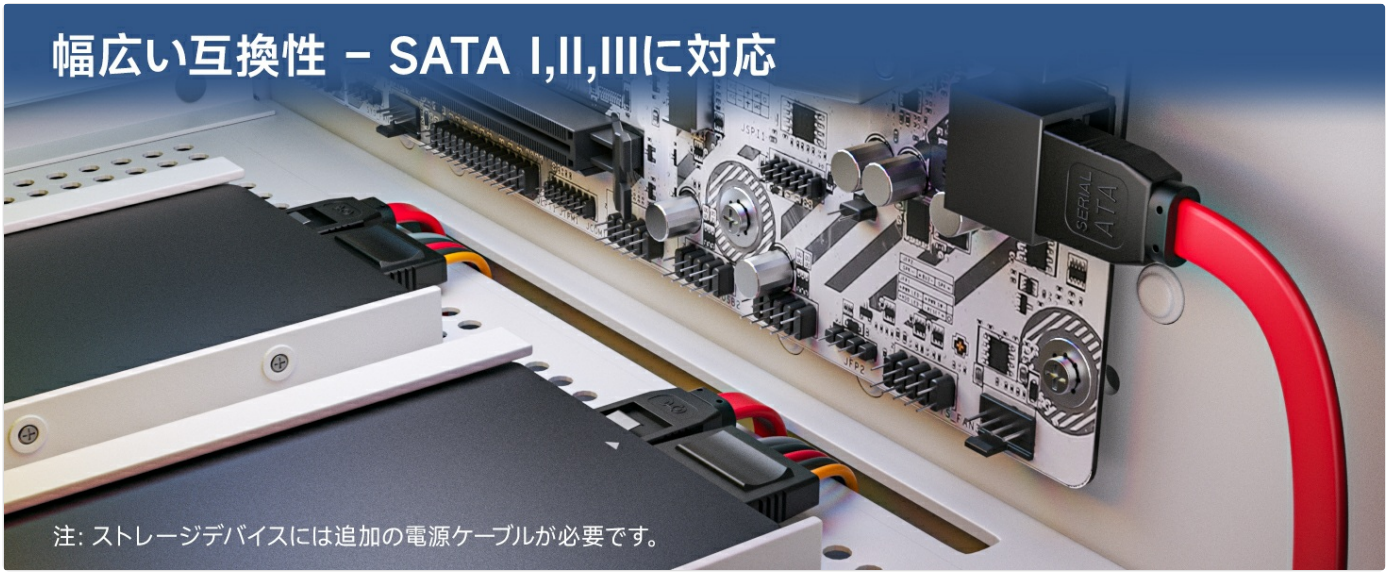


Image 3.1: SATA cables integrated into a custom PC build, ensuring optimal data flow.

4. Maintenance

SATA cables are generally low-maintenance. Following these simple guidelines will help ensure their longevity and optimal performance:

- **Secure Connections:** Periodically check that the cable connections to both the motherboard and the storage device remain secure. Loose connections can lead to intermittent data transfer issues.
- **Avoid Bending:** While the cables feature a flexible jacket, avoid sharp bends or excessive force that could damage the internal wiring or connectors.
- **Keep Clean:** Ensure the connectors are free from dust and debris. Use compressed air if necessary to clean ports before connecting.
- **Proper Storage:** If storing unused cables, coil them loosely and secure them with the included cable ties to prevent tangling and damage.



Image 4.1: Flexible SATA cables with reusable ties for organized storage and maintenance.

5. Troubleshooting

If you encounter issues with your SATA cable, consider the following troubleshooting steps:

- **Device Not Detected:**
  - Ensure both ends of the SATA data cable are securely connected to the motherboard and the storage device.
  - Verify that the SATA power cable is also securely connected to the storage device.
  - Check your computer's BIOS/UEFI settings to ensure the SATA port is enabled and the device is recognized.
  - Try connecting the device to a different SATA port on the motherboard.
  - Test with a different SATA cable to rule out a faulty cable.
  - For new drives, ensure they are initialized and formatted in Disk Management (Windows) or Disk Utility (macOS/Linux).
- **Slow Data Transfer Speeds:**
  - Confirm that both your motherboard and storage device support SATA III (6Gbps) speeds. If either component is SATA I or II, speeds will be limited to their respective maximums.
  - Ensure the cable is not damaged or kinked.
  - Check for any background processes or software that might be impacting disk performance.
- **Intermittent Connection/Data Errors:**
  - Re-seat both ends of the SATA data and power cables.
  - Ensure the latches on the connectors are fully engaged.
  - Check for any physical damage to the cable or connectors.
  - Test with a different SATA cable.



Image 5.1: Compatible devices for SATA III 6Gbps connections.

Image 5.2: Illustrates the difference between a SATA port (compatible) and an IDE port (incompatible).

6. Specifications

Feature	Specification
Brand	Cable Matters
Model Number	104007-18x3
Cable Type	SATA III (Serial ATA 3)
Data Transfer Rate	Up to 6 Gbps

Length	45 cm (18 inches)
Connector Type	7-pin SATA (Male-Male) with Latches
Cable Shape	Straight
Color	Red
Compatibility	SATA I, SATA II, SATA III (Backward Compatible)
Environmental Compliance	RoHS Compliant
Quantity	3 Cables per pack



Image 6.1: Visual representation of SATA data transfer speeds.

Image 6.2: Internal construction highlighting features for stable signal transmission and durability.

7. Warranty and Support

Cable Matters products are designed for reliability and performance. For specific warranty information and technical support, please refer to the official Cable Matters website or contact their customer service directly.

- **Official Website:** For the most up-to-date warranty details, product registration, and support resources, please visit the Cable Matters official website.
- **Customer Support:** If you encounter any issues or have questions not covered in this manual, please reach out to Cable Matters customer support. Contact information can typically be found on their website.

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