

**Model No.: CABLE-MC8C8R60**



## 1. Product Overview

The Athena CABLE-MC8C8R60 is a high-speed interconnect cable assembly designed for PCI Express (PCIe) Gen4 and Gen5 applications. It features MCIO 8i straight connectors on both ends, compliant with the SFF-TA-1016 standard.

The cable ensures excellent signal integrity, low crosstalk, and stable performance for enterprise-class servers, JBODs, RAID subsystems, and NVMe storage backplanes.

## 2. Main Features

- Compliant with PCI Express Gen4 and Gen5 protocols (32 GT/s).
- MCIO 8i to MCIO 8i straight-to-straight round cable design, per SFF-TA-1016.
- 85  $\Omega$  impedance twin-ax construction for high-speed data transmission.
- Length: 600 mm  $\pm$ 10 mm tolerance for compact routing in server systems.
- Premium 3M flexible flat cable supporting 90° and 180° bending.
- Multi-layer shielding for EMI and crosstalk suppression.
- Durable latch mechanism ensuring reliable connection and retention.
- Slim form factor optimized for high-density enclosures and cable management.
- RoHS compliant and UL94-V0 flame-retardant materials.
- Ideal for data center, HPC, and enterprise storage environments.

### 3. Technical Specifications

Product Description	MCIO 8i to MCIO 8i high-speed cable assembly (Straight-to-Straight)
Connector Type	MCIO 8i (Male) to MCIO 8i (Male) Straight
Cable Length	600 mm ± 10 mm tolerance
Conductor	Silver-coated copper, twin-ax shielded
Impedance	85 Ω ± 10%
Data Rate	32 GT/s (PCIe Gen5)
Current Rating	0.5 A per contact
Operating Temperature	0°C to +70°C
Cable Color	Black
Material	Aluminum Mylar Tape、 PE、 PVC
Compliance	RoHS, SFF-TA-1016, PCIe Gen5
Country of Origin	China

#### 4. Mechanical Structure Reference

The MCIO 8X straight-to-straight cable assembly conforms to drawing, guaranteeing accurate pin mapping and impedance control for PCIe Gen5 high-speed signal transmission. Each differential pair is individually shielded, maintaining 85  $\Omega$  impedance with minimal skew and consistent eye diagram performance.

#### 5. Applications

- Enterprise and data center servers
- High-performance computing systems
- JBOD and RAID subsystems
- AI and NVMe Gen5 storage systems
- Industrial automation and embedded computing solutions

#### 6. Ordering Information

Model No.	Description	Remark
CABLE-MC8C8R60	High-Speed MCIO 8i to MCIO 8i round Cable Assembly (Straight-to-Straight), PCIe Gen4/Gen5, 85 $\Omega$	Length: 600 mm, Black Color, RoHS Compliant

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reserves the right to make changes to the product at any time without notice.