CABLE-SS8643MS220

SlimSAS SFF-8654 8i to Dual Mini SAS HD SFF-8643 4i Breakout Cable

Overview

This internal mini-SAS breakout cable converts one SlimSAS SFF-8654 8i host connection into two Mini SAS HD SFF-8643 4i device-side connections. The cable is for PCIe Gen3 applications and is designed with controlled-impedance requirements and RoHS 2.0 compliance.

Key Specifications

Item	Description
Model	CABLE-SS8643MS220
Product Type	Internal high-speed breakout cable assembly
Host Connector (P1)	1 x SlimSAS SFF-8654 8i, 74-pin
Device Connectors (P2 / P3)	2 x Mini SAS HD SFF-8643 4i
Cable Length	500 ± 30 mm overall
Breakout Section	Approx. 100 ± 10 mm from breakout reference, with 30 ± 5 mm end sections as shown on drawing
Electrical Target	Controlled impedance: terminal area 85 ± 10% ohms; cable absolute area 85 ± 10% ohms
Performance Note	Electrical and mechanical performance shall meet PCIe Gen3 specification
Compliance	RoHS 2.0 compliant
Color / Finish Notes	Black cable and black expand tube / tape per supplied drawing BOM

Key Features

- One-to-two breakout architecture for 8-lane to dual 4-lane connectivity
- Slim internal cable routing for storage and expansion backplane layouts
- High-speed differential pair routing
- RoHS-compliant materials for system integration projects

Typical Applications

- Server and workstation storage backplanes
- PCIe Gen3 add-in-card or riser interconnects
- Internal SAS / NVMe breakout harnessing
- Embedded systems requiring compact multi-port cabling
- ODM / OEM platform integration and validation builds