Multi-lane SATA Cable and Connector Systems



Get Connected via the Multi-lane[™] Expressway

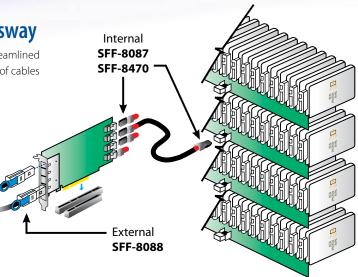
AMCC's award winning Multi-lane design enables highly reliable and streamlined enterprise-class SATA storage solutions by greatly reducing the number of cables needed to connect controllers, backplanes, and standard SATA drives.

The Multi-lane SATA cable/connection system is fast, secure, simple, and clutter free. It combines the RAID controller's four SATA ports into a single locked connection. Four lanes of 3Gb/s SATA traffic travel through just one cable from the RAID controller to the system backplane or to up to four hard drives with a breakout cable.

Multi-lane Benefits

- Four lanes of high speed SATA traffic through a single cable
- Increased system reliability
- Reduced cable count
- Streamlined storage
- Locked connections
- Improved airflow

Multi-lane SATA Cable and Connector Systems



Multi-lane SFF-8087 and SFF-8470 cables provide internal connectivity from the controller to drives and the backplane. Multi-lane SFF-8088 cables provide external connectivity from the controller to the 3ware Sidecar. NOTE: End-to-end Multi-lane connectivity requires a Multi-lane backplane



Reverse breakout cables have 4 Discrete connectors on the controller end and a Multi-lane connector to the drives

Note: Cable color may differ from colors shown above

AMCC Cable Matrix

		Connector to Connector Options				
	Controller	To Controller	To Drives / Backplane	Cable P/N Options	Cable Description	Where Used
3ware 9650SE Ir	nternal RAID Controllers					
9650SE-2LP		Discrete	Discrete	CBL-SATA-39	39" (1m) standard, discrete, point-to-point SATA cable	Connects a controller's discrete SATA port(s) to the drives' or backplane's discrete SATA connector(s)
9650SE-4LPML -8LPML, -12ML, -16ML		SFF-8087	SFF-8087	CBL-SFF8087-05M	0.5 meter cable	Connects the controller's SFF-8087 Multi-lane connector(s) to the backplane's SFF-8087 Multi-lane connector(s)
		SFF-8087	Discrete	CBL-SFF80870CF-05M CBL-SFF80870CF-10M	0.5 meter forward breakout cable 1.0 meter forward breakout cable	Connects the controller's SFF-8087 Multi-lane connector(s) to the drives' or backplane's discrete SATA connector(s)
		SFF-8087	SFF-8470	CBL-SFF8087IB-05M CBL-SFF8087IB-06M	0.5 meter converter cable (internal hybrid)0.6 meter converter cable (internal hybrid)	Connects the controller's SFF-8087 Multi-lane (ML) connector(s) to the backplane's SFF-8470 Multi-lane (MI) connector(s)
3ware 9590SE In	nternal RAID Controllers					
9590SE-8ML, 12ML, 16ML		SFF-8087	SFF-8087	CBL-SFF8087-05M	0.5 meter cable	Connects the controller's SFF-8087 Multi-lane connector(s) to the backplane's SFF-8087 Multi-lane connector(s)
		SFF-8087	Discrete	CBL-SFF80870CF-05M CBL-SFF80870CF-10M	0.5 meter forward breakout cable 1.0 meter forward breakout cable	Connects the controller's SFF-8087 Multi-lane connector(s) to the drives' or backplane's discrete SATA connector(s)
		SFF-8087	SFF-8470	CBL-SFF8087IB-05M CBL-SFF8087IB-06M	0.5 meter converter cable (internal hybrid) 0.6 meter converter cable (internal hybrid)	Connects the controller's SFF-8087 Multi-lane connector(s) to the drives' or backplane's discrete SATA connector(s)
3ware 9590SE w	vith External Connectivity (Mac Only)					
9590SE-4ME		SFF-8088	SFF-8088	CBL-SFF8088-20M	2.0 meter cable	Connects the controller's SFF-8088 Multi-lane connector to the 3ware Sidecar's SFF-8088 Multi-lane connector
3ware 9550SX Ir	nternal RAID Controllers					
9550SX-4LP, -8LP, -12		Discrete	Discrete	CBL-SATA-39	39" (1m) standard, discrete, point-to-point SATA cable	Connects the controller's discrete SATA port(s) to the drives' or backplane's discrete SATA connector(s)
		Discrete	SFF-8087	CBL-SFF80870CR-05M CBL-SFF80870CR-10M	0.5 meter reverse breakout cable 1.0 meter reverse breakout cable	Connects the controller's discrete SATA port(s) to the backplane's SFF-8087 Multi-lane connectors
		Discrete	SFF-8470	CBL-OCR-18 CBL-OCR-10M	0.5 meter reverse breakout cable 1.0 meter reverse breakout cable	Connects the controller's discrete SATA connector(s) to the backplane's SFF-8470 Multi-lane connector(s)
9550SX-12MI		SFF-8470	SFF-8470	CBL-IB-05M CBL-IB-10M	0.5 meter cable	Connects the controller's SFF-8470 Multi-lane connector(s) to the backplane's SFF-8470 Multi-lane connector(s)
		SFF-8470	Discrete	CBL-OCF-18 CBL-OCF-10M	0.5 meter forward breakout cable 1.0 meter forward breakout cable	Connects the controller's SFF-8470 Multi-lane connector(s) to the drives' or backplane's discrete SATA connector(s)
		SFF-8470	SFF-8087	CBL-SFF8087IB-05M CBL-SFF8087IB-06M	0.5 meter converter cable (internal hybrid) 0.6 meter converter cable (internal hybrid)	Connects the controller's SFF-8470 Multi-lane (MI) connector(s) to the backplane's SFF-8087 Multi-lane (ML) connector(s)
9550SX-12ML, 16ML		SFF-8087	SFF-8087	CBL-SFF8087-05M CBL-SFF80870CF-05M	0.5 meter cable 0.5 meter forward breakout cable	Connects the controller's SFF-8087 Multi-lane connector(s) to the backplane's SFF-8087 Multi-lane connector(s)
		SFF-8087	Discrete	CBL-SFF80870CF-10M CBL-SFF8087IB-05M	1.0 meter forward breakout cable 0.5 meter converter cable (internal hybrid)	Connects the controller's SFF-8087 Multi-lane connector(s) to the drives' or backplane's discrete SATA connector(s) Connects the controller's SFF-8087 Multi-lane (ML) connector(s)
		SFF-8087	SFF-8470	CBL-SFF8087IB-06M	0.6 meter converter cable (internal hybrid)	to the backplane's SFF-8470 Multi-lane (MI) connector(s)
3ware 95005 Int	ernal RAID Controllers				20//(1)	
9500S-4LP, 8, 12		Discrete	Discrete	CBL-SATA-39	39" (1m) standard, discrete, point-to-point SATA cable	Connects the controller's discrete SATA port(s) to the drives' or backplane's discrete SATA connector(s)
		Discrete	SFF-8087	CBL-SFF80870CR-05M CBL-SFF80870CR-10M	0.5 meter reverse breakout cable 1.0 meter reverse breakout cable	Connects the controller's discrete SATA port(s) to the backplane's SFF-8087 Multi-lane connectors
		SFF-8470	SFF-8470	CBL-OCR-18 CBL-OCR-10M	0.5 meter reverse breakout cable 1.0 meter reverse breakout cable	Connects the controller's SFF-8470 Multi-lane (MI) connector(s) to the backplane's SFF-8087 Multi-lane (ML) connector(s)
8006-2LP,		Discrete	Discrete	CBL-SATA-39	39" (1m) standard, discrete, point-to-point SATA cable	Connects a controller's discrete SATA port(s) to the drives' or backplane's discrete SATA connector(s)

Multi-lane Quick Reference Chart

Cable/connector	Controller P/N Suffix	Connectivity	Also Known as
SFF-8470	MI	Internal	InfiniBand
SFF-8087	ML	Internal	Mini SAS 4i, Mini SATA Internal, iPass
SFF-8088	ME	External	Mini SAS 4x, Mini SATA External, iPass

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