

The Next Generation

Storage Interface



INTRODUCTION

molex®

Serial ATA*
The Next Generation
Storage Interface



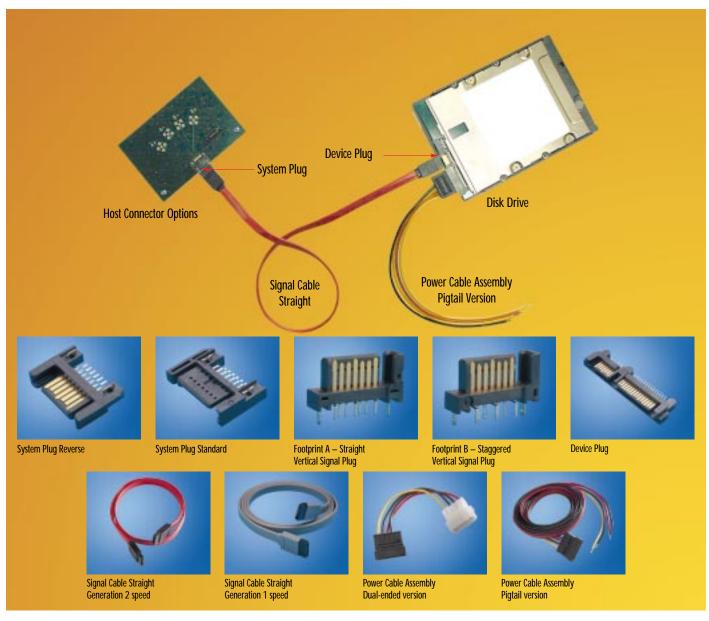
Supporting the 1.8", 2.5" and 3.5" form factors with both cabled and direct docking system, Molex's Serial ATA connectors ensure the most stringent demands in performance are met with the best cost/performance ratio.

We have a full range of desktop, server and notebook storage interconnects to suit your needs. For desktop, we offer a range of device and system plugs, as well as a range of signal and power cable assemblies. Our solutions for Server applications include device plugs and vertical backplane receptacles configured to your requirements. Our Notebook solutions include low-profile hard drive device plugs and docking receptacles.

Contact our sales representative for enquiries or visit our website at www.molex.com. for more information.



SERIAL ATA* SOLUTIONS FOR DESKTOP STORAGE





SERIAL ATA* SOLUTIONS FOR SERVER STORAGE



SERIAL ATA* SOLUTIONS FOR NOTEBOOK STORAGE



*Serial ATA is a trademark of the Serial ATA Trade Association

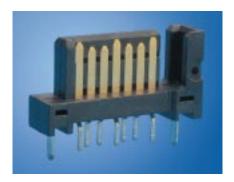
DESKTOP STORAGE



System Plug Reverse Right Angle 67490-0220 67490-0221



System Plug Standard Right Angle 67490-9220 67490-9221



Footprint A Straight Vertical Signal Plug 67491-0010 67491-0011



Footprint B Staggered Vertical Signal Plug 67491-0030 67491-0031



Signal Cable Straight Meets Generation 2 speed 88750-5300 (0.5m, 19.7") 88750-5400 (1.0m, 37.4")



Signal Cable Straight Grey Meets Generation 1 speed 88750-5310 (0.5m, 19.7") 88750-5410 (1.0m, 37.4")



Power Cable Assembly Dual-ended Version 88751-1310 (0.15m, 6") 88751-1311 (0.15m, 6")



Power Cable Assembly Pigtail Version 88751-1410 (1.5m, 59.1") 88751-1411 (1.5m, 59.1")

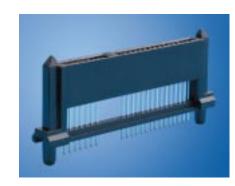


Device Plug 87679-0001

SERVER STORAGE



Device Plug 87679-0001



Vertical Backplane Receptacle Extended Height (Through Hole) 87678-0001



Vertical Host Receptacle Standard Height (Through Hole Press-Fit) 87701-0002





Vertical Host Receptacle Standard Height SMT 87713-0001



NOTEBOOK STORAGE



Docking Rececptacle Right Angle 67492-0220 67492-0221



Device Plug 87703-0001



SERIAL ATA* ATTRIBUTES

Attributes	Serial ATA	Parallel ATA	SCSI	Fiber Channel
Low Cost	Yes	Yes	No	No
Simple Protocol	Yes	Yes	No	No
Long Cable	1m	No	Yes	Yes
Hot Plug	Yes	No	Yes	Yes
Small, Flexible Cable	Yes	No	No	Yes
Low Pin Count	Yes	No	No	Yes

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DESKTOP STORAGE

	Signal Plug		Cable Receptacle			
	Right Angle	Vertical	Signal	Power (Crimping Tpye) Housing and Terminal	Device Plug	
Electrical	Electrical					
Current	1.5A					
Initial Contact Resistance	30 milliohms max.					
Dielectric Withstanding Voltage	500V AC for 1min. at sea level					
Insulation Resistance	1000 Megohms min.					
Physical						
Housing	High Temperature Themoplastic Themoplastic High Temperature Themoplastic		High Temperature Themoplastic			
Contact	Copper Alloy					
Plating – Contact	Selective Gold					
Operating Temperature	-25 to +85°C -40 to +105°C					
Reference Information						
Packaging	Tray					
Tuckuging	(Bag or Box for Signal Cable and Power Cable Assemblies)					

SERVER STORAGE

		Vertical Backplane Receptacle			
	Device Plug	Standard Height Through Hole Press-Fit	Standard Height SMT	Extended Height Through Hole	
Electrical					
Current	1.5A				
Initial Contact Resistance	30 milliohms max.				
Dielectric Withstanding Voltage	500V AC for 1min. at sea level				
Insulation Resistance	1000 Megohms min.				
Physical	Physical				
Housing	High Temperature Themoplastic				
Contact	Copper Alloy				
Plating – Contact	Selective Gold				
Operating Temperature	-40 to +105°C				
Reference Information					
Packaging	Tray				

NOTEBOOK STORAGE

	Device Plug	Docking Receptacle			
Electrical	Electrical				
Current	1.5A				
Initial Contact Resistance	30 milliohms max.				
Dielectric Withstanding Voltage	500V AC for 1min. at sea level				
Insulation Resistance	1000 Megohms min.				
Physical	Physical				
Housing	High Temperature Themoplastic				
Contact	Copper Alloy				
Plating – Contact	Selective Gold				
Operating Temperature	-40 to +105°C				
Reference Information					
Packaging	Tray				



Bringing People & Technology Together, WorldwideSM

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