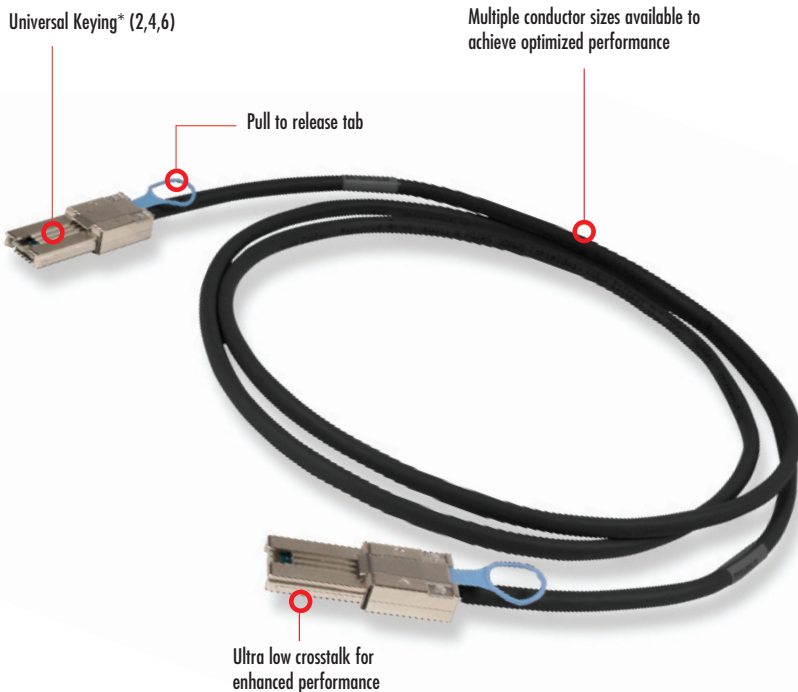


Siemon External Mini-SAS Passive Copper Assemblies

Mini-SAS SFF-8088 four lane, passive twinaxial copper cable assemblies from Siemon Interconnect Solutions (SIS) were developed to support SAS (Serial-Attached-SCSI) Enterprise storage networking links. These cables run at SAS 3Gb/s and 6Gb/s per lane and exceed SAS 2.1 requirements. These cables also support external SATA (Serial-Attached-ATA) storage networking requirements at 1.5 Gb/s, 3Gb/s and 6Gb/s per lane. The low profile backshell enables easy access and removal in tight fitting area's.

Applications include links for Drive to Host Controller Adapter, Host Controller Adapter to Switch and SAS Switch to Switch.



APPLICATIONS

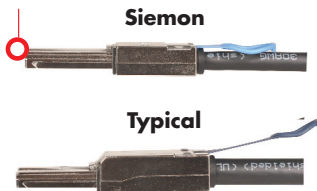
- Storage Devices
- Servers
- Switches
- RAID's (Redundant array of independent disc's)
- HBA's (Host Bus Adapters)

STANDARDS COMPLIANCE

- SFF-8088
- SFF-8086
- SAS 2.1 Rev. 07**
- RoHS

** Insertion loss, return loss and crosstalk

Lower profile
(20% reduced thickness)

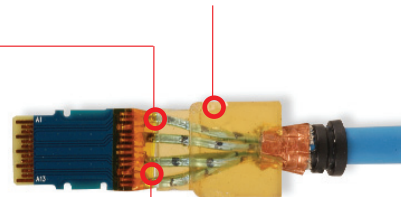


PCB Termination

Overmold provides additional strain relief to minimize pistoning

Laser stripped conductors

Automated welding for unmatched consistency



Welding results in less dielectric shrink-back than soldering

Siemon External Mini-SAS Passive Copper Assemblies

Performance Specifications:

Electrical	
Min. Dielectric Withstand Voltage	300 VDC
Insulation Resistance	1000 Mohms
Current Rating	0.5 Amp Min/Signal Contact

SAS 2.1 Rev. 07 6GHz Limits			
IL SDD21	SCD21-SDD21 <-10dB	RL SDD22	Total NEXT <-26dB
Pass	Pass	Pass	Pass

General	
Operating Temperature	20 to 85° C
Flammability Rating (Plastics)	UL 94
Green Features	RoHS, Lead-Free
Shield	Braid/Foil
Marking	Mfg Name, Part#, Date Code



Ordering Information:

MiniSAS to MiniSAS Passive Copper Cable Assemblies

Part Number	Length (Meters)	Gauge
EMSAS30-00.5	0.5	30
EMSAS30-01	1	30
EMSAS30-02	2	30
EMSAS30-03	3	30
EMSAS26-05	5	26

Note: Contact customer service for additional lengths.

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

Plug	
Backshell Material	Nickel Plated Zinc Diecast
Contact Material	PCB with Gold-Plated Pads
Plastic Material	PA66
Latch	Positive Latching w/Pull Tab
Insertion Force	55.5N Max.
Withdrawal Force	49N Max.
Retention Force	90N Min.
Durability	250 Cycles
Keying	Universal* (2,4,6)
Cable	
Conductor	Solid
Wire Gauge	30 AWG to 26 AWG
Impedance	100 +/- 5 ohms
Construction	Twinaxial
Cable OD	30 AWG = 6.1mm (0.240 in)
	28 AWG = 7.1mm (0.280 in)
	26 AWG = 8.2mm (0.323 in)
Jacket Type	PVC
Bend Radius	5X Cable OD - Single 10X Cable OD - Repeated

*Additional keying options available

For additional resource information:

Visit our web site at www.siemon.com/SIS

Siemon Interconnect Solutions

Watertown, CT USA

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WWW.SIEMON.COM/SIS

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