

3M™ High Routability Internal Mini Serial Attached SCSI (miniSAS) Cable Assemblies

8F36 Series

Your system should be built around performance, not around your cables.

The 3M High Routability Internal miniSAS Cable Assemblies 8F36 Series utilize 3M's new ultra low profile, high speed, high signal density 3M™ Twin Axial Cable SL8800 Series. Available with and without sidebands, these cable assemblies are ideal for space constrained systems. The cable assembly is unjacketed, extremely thin and very flexible. It can even be folded with minimal loss or performance impact. These assemblies can route along the sides of cabinets and through narrow openings between fans or heat sinks. Right angle terminations or sharp turns are easy to navigate, due to the foldability of this unique cable.

No compromises

The High Routability Internal miniSAS Cable Assemblies 8F36 Series are not just for tightly packaged systems. The high performance SL8800 Series Cable used in the construction of these assemblies also provides excellent transmission properties, allowing your signals to go the distance. The excellent performance of the cable may allow an even longer cable to be used. This performance benefit will stretch your loss budget, allowing you to use extra length to route the cable through a more convenient location, out of the way of airflow, or around difficult obstructions.

High Routability MiniSAS Cable Assemblies meet SAS 2.1 performance requirements. Whether or not you need the routability of these cables, they have the performance to help keep your system running at top speed. If you need a little extra "edge" in your SAS environment or you have a challenging packaging situation, look at the 3M High Routability miniSAS Cable Assemblies.

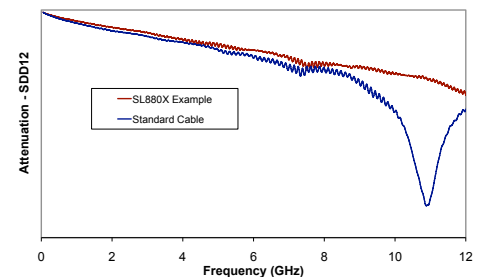
3M has tested these assemblies in folded configurations, and each fold impacts the impedance at that location by approximately only 1 ohm, well within the tightest impedance specifications (and note that the impedance at each fold is not cumulative, but is only a variation at that point). Similarly, S-parameter performance metrics are not degraded, and the cable assemblies still pass SAS 2.1 criteria, even with multiple folds. Should your design require any folding, be sure to restrain the cable with the appropriate cable clamps to prevent repeated flexure at the folds.



3M™ High Routability Internal miniSAS Cable Assembly using 3M™ Twin Axial Cable SL8800 Series low profile cable.



Two layers of 3M™ Twin Axial Cable SL8800 Series used in a 3M™ High Routability Internal miniSAS Cable (right) next to tight wrapped eight pair cable (middle), and to overbraided loose eight pair cable (left).



3M™ Twin Axial Cable SL8800 Series exhibits low loss and no "suckout."



Think outside the box

If you have multiple assemblies, stack them. Run your assemblies under the case lid or along the sides of the case. Cable assemblies should not be a design constraint. Make them a design enabler.

Configuration	Drawing #	Spec #	Performance
miniSAS, High Routability Cable Assemblies	78-5100-2363-9	PS-0082	Meets SAS 2.1

Technical Information

- 100 Ohm differential pairs
- Four bi-directional SAS channels with or without sidebands
- SAS 2.1 performance compliant
- Solid polyolefin insulation
- RoHS* compliant
- The cable used in this assembly is UL AWM 21008 (150V, 80C)
- The connector materials (resin/PCB) are rated 94 V-0

For more information, please visit us at www.3Mtwinax.com

*“RoHS Compliant 2002/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. This information represents 3M’s knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

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