

3M™ High Routability Internal MiniSAS HD Cable Assemblies

8U series

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

3M offers a full portfolio of miniSAS HD assemblies, all of which utilize 3M's ultra low profile, high-speed, high signal density 3M™ Twin Axial Cable SL8800 Series. All of these cable assemblies are ideal for space constrained systems.

No compromises

The High Routability Internal miniSAS HD Cable Assemblies 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 can 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.

3M miniSAS HD, Series 8U Assemblies are available with an optional mesh sleeve. Available configurations are standard and short length straight 4i, right angle 4i and a left side exit 4i version. If you need a little extra “edge” in your SAS environment or you have a challenging packaging situation, consider the 3M High Routability miniSAS HD Cable Assemblies.

3M has tested these assemblies with multiple folds in the cable. The assemblies demonstrate minimal disruption to the impedance profile. Similarly, S-parameter performance metrics are not degraded, 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 HD Cable Assembly, Straight Connector



3M™ High Routability Internal MiniSAS HD Cable Assembly, Right Angle Connector



Comparison of available shortened (18 mm) and standard (27 mm) connector housing options

3M™ High Routability Internal MiniSAS HD Cable Assemblies

Configuration	Drawing #	Spec #
miniSAS HD High Routability Cable Assemblies, 8U Series, Straight Connector, 27 mm housing	78-5100-2555-0	78-5102-0147-4
miniSAS HD High Routability Cable Assemblies, 8U series, Straight Connector, 18 mm housing	78-5100-2658-2	78-5102-0200-1
miniSAS HD High Routability Cable Assemblies, 8U Series, Right Angle Connector	78-5100-2651-7	78-5102-0200-1

Technical information

- 100 Ohm differential pairs
- Bi-directional SAS channels with or without sidebands
- Designed to meet SAS 2.1 and SAS 3.0 standards
- Solid 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

MiniSAS HD, 8U Series

8US4 – XXXX9 – 00 – X.XX

AA11 = Std miniSAS HD 4i w/sidebands (see table 2 on customer drawing)
 AA12 = Short miniSAS HD 4i w/sidebands (see table 2 on customer drawing)
 AA15 = R/A miniSAS HD 4i to Short miniSAS HD 4i, w/sidebands
 CB11 = Std miniSAS HD 4i w/o sidebands (see table 3 on customer drawing)
 CB12 = Short miniSAS HD 4i w/o sidebands (see table 2 on customer drawing)
 CB15 = R/A miniSAS HD 4i to Short miniSAS HD 4i, w/o sidebands

Length in meters	± 10 mm for “length” 0.5 meter max
Length tolerance	± 15 mm for “length” more than 0.5 meter

*“RoHS 2011/65/EU” means that the product or part does not contain any of the substances in excess of the maximum concentration values (“MCVs”) in EU RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. 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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