Go the distance.

3M™ SlimLine Twin Axial Cable Assembly (SFF-8654) for SAS and PCIe Applications

A revolutionary bendable, foldable cabling solution ideal for tight spaces and transmitting signals over longer routes.

High speed. Low profile.

Bend it, fold it, turn it — without compromising signal or data integrity.

Today's world moves at the speed of information – and the pace is getting faster every day. To stay in the race, you need next-generation cabling solutions that can deliver the maximum speeds, performance and uptime your customers demand.

The 3M™ SlimLine Twin Axial Cable Assembly (SFF-8654) is ideal for SAS and PCIe applications in today's high density data centers, combining flexibility with the reliability you need to keep your systems running at top speed. Its unique ribbon construction enables folding and bending without adversely impacting performance. The ribbon's foldability provides more freedom to design folded cable assemblies optimized to maximize system density, streamline system assembly and enhance airflow. Moreover, its low-profile enables it to be routed through narrow openings between server components (fans, memory, heatsinks, etc.).

Enabling a more elegant system design.

Custom assemblies using the 3M™ SlimLine Twin Axial Cable Assembly (SFF-8654) can bundle multiple folded assemblies into a harness designed to maximize space utilization, optimize cooling (by orientating low-profile ribbon to minimize airflow obstruction) and streamline system assembly - all while maintaining excellent signal integrity.

PRODUCT DETAILS

x4 and x8 configurations available

SFF-8654 straight and right angle varieties

Signal wire sizes of 30AWG and 31AWG

Standard lengths of 0.5 m, 0.75 m and 1 m

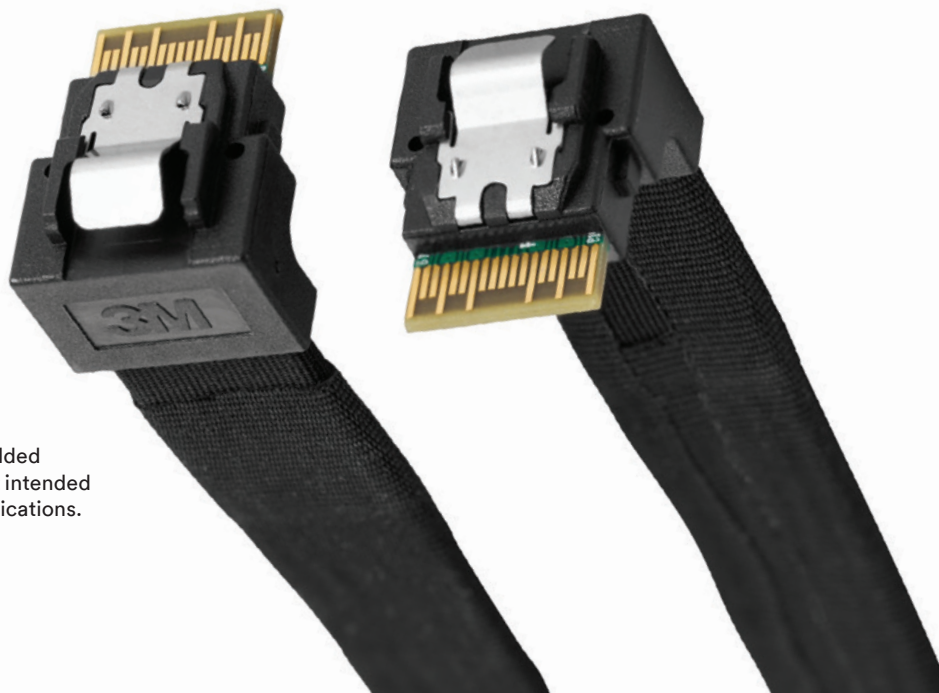Appropriate for PCIe (85 ohm) and SAS (100 ohm) applications

Available with and without sidebands

Custom folded assemblies can be ordered upon request

Lab-tested signal integrity for performance you can trust.

3M™ SlimLine Twin Axial Cable Assembly (SFF-8654), Series 8ES4/8ES8

With a lower profile than conventional AWG twin axial cables, the 3M™ SlimLine Twin Axial Cable Assembly (SFF-8654) allows for a wider range of routing options and extremely tight bend radii for unique packaging configurations. Each fold* impacts impedance by no more than one to two ohms, well within the most demanding impedance specifications. Similarly, S-parameter performance metrics are not degraded, even with multiple folds.

*Ideal for static folded applications. Not intended for high-flex applications.

Over 50 years of interconnect innovation.

The 3M™ SlimLine Twin Axial Cable Assembly (SFF-8654) is the latest in a long line of 3M innovations in electronics cabling technology, including the first mass-termination interconnect system; the first 64 wire termination; color-coded flat cabling; the first IDC solution for I/O applications; foldable twin-ax cable and more – all designed to enable manufacturers to improve device performance, speed assembly and add more value to their products.

Regulatory: For regulatory information about this product, contact your 3M representative.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer: Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OR TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

3M