



Corning® Multicore Fiber Solution

Corning Multicore Fiber (MCF), an integral part of next-generation GlassWorks AI™ solutions, provides up to a 4x increase in optical pathway density to address scale-out constraints in AI networks.

Corning MCF cable & connectivity solutions deliver similar optical performance and reliability as single-core based solutions, enabling a step change in both network density and speed of deployment.

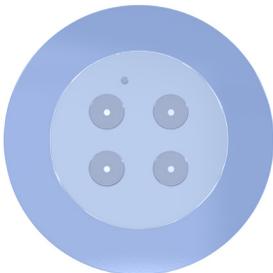
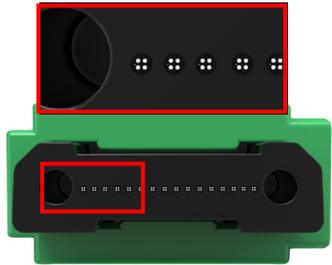
Reduces # of physical connections by up to

75%*

Reduces cable volume by up to

75%*

*When MCF replaces equivalent single-core solutions

Corning® Multicore Fiber	MCF Cable Technology	MCF MMC-16 Connectors
 <p>125 µm cladding OD, 190 µm coating OD</p>	 <p>Available in 16, 128, 864 fiber counts for indoor, I/O applications and 432F for outdoor applications. More configurations available upon request.</p>	 <p>Corning MCF MMC-16 with precision core rotation</p>

Density

Corning MCF delivers up to 4x more transmission capacity per fiber, enabling a step change in network bandwidth without increasing physical footprint.

Speed of Deployment

With an up to 4:1 reduction in the number of cables and connections, Corning's MCF solution simplifies installation and reduces labor hours by up to 60% – leading to faster time to revenue.

Sustainability

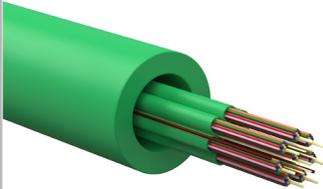
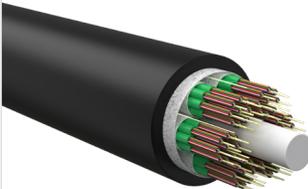
Increased pathway density enables less fiber, less cable and fewer connections. In a modeled 18,432-GPU AI data hall, passive optical component GHG emissions drop by up to 60% compared to a single core fiber configuration.*

*Based on a cradle-to-gate screening product carbon footprint (PCF) comparison critically reviewed by 3rd party.

A Complete Solution Engineered for Solving Density Challenges

Features	Benefits	Value
Corning® Multicore Fiber, 190 μm diameter	Comparable optical performance and same dimensions to today's leading G.657-compliant optical fibers	Increase density without sacrificing optical performance
Fewer Cables and/or Reduced Cable Size	A comparable core-count MCF cable will be up to 75% smaller and lighter than its SCF counterpart	Reduced duct/tray volume & pathway requirements and less cable to install
MCF MMC-16 connectors	Seamless connectivity and same form factor as SCF MMC-16 plus comparable performance (insertion loss < 0.5 dB per connection)	75% reduction in connectors while ensuring network performance and reliability
Corning engineering services and polarity management software	Support ease of deployment and network integrity	Best-in-class service you've come to expect from Corning

MCF Cable Solutions Across the AI Network Fabric

Solution Family	Indoor	Indoor/Outdoor	Outside Plant
Available Configurations	16F-864F	Up to 864F	144F-864F
Image/Schematic			
Fiber count	128	864	432
Nominal Cable OD	10 mm	20 mm	8 mm

We are actively developing and optimizing MCF cable technology and designs based on customer specific applications. Current offerings are intended to maximize end-to-end link performance while still achieving a step change in optical pathway density. Other designs and configurations can be made available upon request.

CORNING

Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC 28216 USA
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

Corning Optical Communications reserves the right to improve, enhance, and modify the features and specifications of Corning Optical Communications products without prior notification. A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks. All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified. © 2026 Corning Optical Communications. All rights reserved. LAN-3520-AEN / March 2026