MTP MPO Expertise, High-Density Cabling Solutions:FOCC Builds Fiber Brand Moat with Full-Series Products & Global Supply

Product line covers MTP/MPO patch cords, trunk cables, harness cables, cassettes and direct splits to LC/SC, supporting 8 to 72 fiber configurations.



LOGO FOR FOCC Fiber Co.,Ltd

CALIFORNIA, CA, UNITED STATES, September 15, 2026 / EINPresswire.com/ -- Founded in 2014 and exporting all of its output to markets including the European Union and the United States, FOCC Fiber Co., Ltd. builds MTP/MPO patch cords from 12 to 48 fibers alongside trunk, harness and breakout assemblies for 40G to 800G data center links.

FOCC Fiber Co., Ltd., a manufacturer of fiber optic connectors and cable assemblies headquartered in Shenzhen, China, has structured its product line around MTP/MPO multi-fiber connectivity. The company, established in 2014, covers MTP/MPO fiber optic patch cords, trunk and harness cables, modular cassettes, MTP-to-LC and MTP-to-SC direct split cables, and custom multi-fiber assemblies for data center and fiber-to-the-antenna deployments.

According to company information, FOCC operates a 5,000-square-metre factory in Guangzhou, employs approximately 200 people, and maintains annual production capacity of about 2,000,000 units. A 30-engineer research and development team supports connector and assembly design. The company states that its customers are business-to-business buyers, principally telecom operators and data centers, and that 100% of its products are exported to markets such as the EU and the USA.

Industry Context: Multi-Fiber Connectors Move Into the Mainstream

The MPO connector category is now large enough to be tracked as a market in its own right, and the published estimates point in one direction. Strategic Market Research estimated the global MPO fiber optic connector market at approximately USD 2.1 billion in 2024 and projected growth to USD 3.2 billion by 2030. Valuates Reports, using what appears to be a narrower definition of the category, estimated the same market at USD 741 million. The divergence is a scope question rather than a disagreement about direction: whether cable assemblies and associated hardware are counted alongside the connector itself materially changes the total.

Two structural characteristics of the category are consistent across published research. The first is regional concentration. Valuates Reports placed Asia-Pacific at approximately 42% of the global MPO connector market in 2024, the largest single regional share, followed by North America. The second is a pronounced multimode bias. The same source reported that multimode MPO connectors held more than 88% of the product segment, driven by short-reach data center interconnects where multimode fiber remains the lowest-cost path between racks and rows.

Adoption data from SkyQuest Technology supports the same conclusion from the demand side. The firm estimated that hyperscale data centers integrated MPO connectors in more than 70% of their facilities globally in 2024 to support parallel optics and high-density cabling. Parallel optical transmission, in which a single connector carries 8, 12, 16 or more independent channels, is the mechanism that lets a switch port reach 400G and beyond without multiplying the number of duplex LC interfaces on the panel.

The physical layer of that build-out is governed by two documents. MPO connectors are defined by international standard IEC 61754-7 and by TIA-604-5, also known as FOCIS 5. Together they establish the interface dimensions and optical performance thresholds that allow connectors from different manufacturers to mate with one another. Intermateability is the reason the category scaled: a data center operator can specify MPO at the interface level rather than locking the entire cabling plant to a single supplier.

MTP and MPO: A Registered Enhancement, Not a Separate Standard

The terms MTP and MPO are frequently used interchangeably, which obscures a distinction that matters to specification writers. MPO, short for multi-fiber push-on, is the generic connector standard. MTP is a registered trademark of US Conec and designates a specific, enhanced implementation of the MPO interface that the trademark holder describes as featuring a floating ferrule and elliptical guide pins for improved optical performance.

Because MTP connectors conform to the same interface standard, an MTP connector and a generic MPO connector remain intermateable. The difference lies in construction and in the

consistency of the optical result across mating cycles, not in whether the two can be joined. For procurement teams, that distinction is a qualification question rather than a compatibility question: both will plug in, but the loss budget and long-term stability of the link depend on which variant is installed at the panel.

FOCC has published technical material on this distinction and applies MTP connectors at its MTP terminations, offering both UPC and APC polishing across single-mode and multimode assemblies. Stating the connector variant explicitly, rather than describing a product only as an "MPO patch cord," is one of the details that separates a fully specified cabling bill of materials from one that has to be renegotiated at commissioning.

The Product Range: From 12-Core Patch Cords to Pre-Terminated Systems

FOCC's catalog is organized around the building blocks that a high-density data center requires rather than around a single hero product. The company's MTP/MPO fiber optic patch cord line covers 12, 16, 24 and 48 core counts and is positioned for data center and telecom use. Cable lengths are customizable from 1 metre to 100 metres, which allows a single part number family to serve spine-to-leaf runs as well as short intra-rack connections.

Core counts: 12, 16, 24 and 48 fibers
Fiber types: OS2 single-mode; OM3, OM4 and OM5 multimode
Insertion loss: ≤ 0.35 dB (Elite grade) and ≤ 0.5 dB (standard)
Return loss: ≥ 60 dB (APC) and ≥ 50 dB (UPC)
Operating temperature: -20 °C to +70 °C
Lengths: customizable from 1 m to 100 m
Jacket: LSZH (low smoke zero halogen)
Reference standard: Telcordia GR-326
Materials: zirconia ceramic ferrule; PBT/PEI connector housing; Kevlar aramid yarn; LSZH or PVC jacket

Beyond the patch cord itself, the range extends into the assemblies that make up a pre-terminated system. MTP/MPO trunk cables serve as permanent links between distribution areas; MTP/MPO harness and breakout cables convert a multi-fiber interface down to duplex LC or SC; modular cassettes and patch panels aggregate those fibers at the rack; and MTP-to-LC or MTP-to-SC direct split cables perform the same conversion without an intermediate module. Multi-fiber assemblies can also be produced to customer specification where a standard part does not match the polarity, length or fiber mix required.

A separate part of the portfolio addresses outdoor conditions. FOCC's outdoor waterproof FTTA patch cords carry an IP67 or IP68 protection rating and are rated for operation from -40 °C to +75 °C, with a stated insertion loss of ≤ 0.30 dB, return loss of ≥ 60 dB in APC configurations, and tensile strength of ≥ 1000 N. These assemblies use a zirconia ceramic ferrule, a stainless steel

ODC connector shell, a PE cable jacket, an armored fiber core and a silicone rubber sealing ring, and are offered in OS2, OM2, OM3, OM4 and OM5 fiber types.

Where the Assemblies Are Deployed

The design intent behind this product mix is a cabling architecture in which multi-fiber connectors carry traffic across the backbone and single-fiber connectors terminate at the equipment. In a typical layout, an MTP/MPO trunk cable forms the permanent link between two distribution areas; a harness or breakout cable at each end splits the multi-fiber bundle into duplex LC or SC pairs; and a cassette or panel mounted in a rack unit performs the same function in a modular, field-replaceable form.

The company describes the applicable environment as a controlled data center room, with deployments covering high-density data center cabling, 400G and 800G high-speed transmission, cloud server interconnection and storage area network fabrics. Matched equipment includes data center switches, servers, 400G and 800G optical transceivers, MPO patch panels and cable management systems. The stated environmental and compliance requirements for these assemblies are a low insertion loss of ≤ 0.35 dB at the low-loss grade, return loss of ≥ 60 dB in APC configurations, an LSZH flame-retardant jacket, RoHS compliance and physical density high enough to reduce the number of rack units consumed by cabling.

Density is the commercial argument. Every duplex LC connection occupies a port position on a panel; a single 24-fiber MPO connector does the work of twelve duplex pairs in one mating action. That arithmetic, rather than any single performance figure, is what has pushed hyperscale operators toward multi-fiber interfaces for backbone and cross-connect layers. It also explains why the multimode share of the connector market is so high: within a hall, multimode vertical-cavity surface-emitting laser links remain cost-effective at the distances involved.

Manufacturing Base, Quality Systems and Export Profile

FOCC's stated operating profile places it among the mid-sized specialized assembly houses that supply the connector and cabling tier rather than among the component trademark holders. The company reports a 5,000-square-metre facility in Guangzhou focused on precision manufacturing, with stated development emphasis on high-density integration, high-reliability connections and outdoor protection.

On quality management, the company states that it implements ISO 9001 and ISO 14001 systems and that its products are exported to more than 30 countries and regions, with applications in telecommunications and power. It also states more than ten years of ODM and OEM service experience, which in this segment typically means build-to-print assembly of customer-specified polarity, fiber type, length and connector variant rather than catalogue-only

supply.

The company lists Prysmian, Siemens, Coherent, Fujikura and NTT among its partner clients. Those names appear in FOCC's own company profile rather than in independently verified disclosures, and readers should treat the list as a company-stated reference set.

Market Impact

The practical significance of a full-series multi-fiber portfolio at this tier of the supply chain is availability rather than novelty. Data center cabling projects are qualified as systems: a trunk cable, a cassette and a breakout assembly that fail to mate cleanly at the panel will delay commissioning regardless of how good any one component is. A supplier that can deliver patch cords, trunks, harnesses, modules and panels from a single production base removes one interface from the coordination problem, particularly where project schedules are compressed.

Standards do the rest of the work. Because MPO interfaces are fixed by IEC 61754-7 and TIA-604-5, connectors from different manufacturers are expected to intermate, which keeps the market competitive and gives buyers a genuine second-source option. The counterweight is that intermateability guarantees fit, not performance. Insertion loss grades, ferrule geometry and polish quality vary, and a link budget calculated with Elite-grade assemblies will not hold if standard-grade parts are substituted downstream.

Regional supply concentration is the other factor shaping procurement. With Asia-Pacific accounting for approximately 42% of global MPO connector demand and also hosting a large share of assembly capacity, cabling programs in North America and Europe remain exposed to trans-Pacific lead times. Suppliers that already export the majority of their output to those regions, as FOCC states it does, are structurally oriented toward those logistics and documentation requirements.

Analyst Perspective: A Fragmented Market Measured in Fractions

Third-party market data indicates a supplier base without a dominant player. SkyQuest Technology estimated in 2024 that US Conec held approximately 18% of the global MPO connector market and Senko Advanced Components nearly 15%, with the remainder distributed across a long tail of connector and assembly manufacturers. The structural importance of that distribution is straightforward: the trademark holder for MTP is a significant but not controlling share of the market, and the interface itself is standardized and open.

Market sizing should be read with the same caution. Published 2024 estimates for the MPO fiber optic connector market range from USD 741 million to USD 2.1 billion depending on whether the scope is limited to connectors or extended to assemblies and hardware, and projections to 2030

consequently vary in absolute terms. The directional signal from those sources is consistent with hyperscale adoption data, but no single figure in the category should be treated as definitive.

Closing Outlook

The near-term trajectory of the multi-fiber connector category is tied to the same force that created it: the migration of data center links from 400G toward 800G, which increases the number of parallel channels per port rather than reducing it. Published research projects continued growth in the connector market through 2030, and hyperscale adoption above 70% in 2024 leaves the enterprise and colocation tiers as the main remaining addressable base.

For suppliers such as FOCC Fiber Co., Ltd., the competitive question is less about the interface, which is standardized, than about execution capacity: whether a manufacturer can hold loss grades at Elite levels across high core counts, deliver custom lengths and fiber mixes on project timelines, and document compliance for buyers in the EU and the USA. The company's stated assets in that contest are a 5,000-square-metre plant, approximately 200 employees, an annual capacity of about 2,000,000 units, and a 30-engineer engineering team. Whether those figures translate into qualified positions on hyperscale and enterprise bills of materials will be determined project by project, and by the optical test results that accompany each shipment.

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