



A Furukawa Company

MPO Passive Optical Splitter Modules & Fanouts

A Complete Line of Splitter Modules for FTTx Applications



MPO Splitter Module
with Attached MPO LCA Fanout

Features and Benefits

- Modular approach provides cost effective incremental growth:
 - Improves and simplifies fiber routing
- The PLC splitters are Telcordia GR-1221-CORE and GR-1209-CORE tested:
 - Support industry standard applications
 - Long term reliability assurance.
- Low insertion loss and reflectance:
 - Support high-speed applications
 - Support longer link lengths
- Solution-based engineering support to meet all FTTx networking requirements:
 - Offer unique designs and configurations
 - Customer specific application engineering
- Universal solution:
 - Simplified stocking/replacement inventory

Product Description

The Multifiber Push-On (MPO) Optical Splitter Module Family provides a unique plug and play solution to meet the needs of today's FTTx networks. Combining the optical splitter expertise of Furukawa Electric with the connectivity and packaging capabilities of OFS, the MPO Splitter Module offers superior performance in a flexible and easy-to-manage package.

The use of MPO Fanouts simplifies cable management by decreasing installation time and providing a flexible solution. The MPO Fanout structure allows for rapid hot swapping of modules for future upgrade to high bandwidth WDM or reportioned split ratios. The connectorized module also reduces time consuming documentation and rerouting in the future – the design makes it easy to remove five connectors and to swap out the module. Designed for demanding FTTx installations, Furukawa Electric's PLC Splitters provide low loss, wideband performance. Splitter modules are packaged in robust cassettes that plug into a standard LGX® Fiber Management panel opening.

The LC or SC interface on the input takes advantage of the outstanding low loss performance of the OFS connectors, while the MPO Connector provides high-density connectivity on the output side.



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Product Description Cont.

The combination of low loss splitters and connector interfaces maximizes link lengths. When used with AllWave® ZWP Single-Mode Fiber in OFS' comprehensive FOX (Fiber Optics to the X) Solution® Offering, network operators can offer triple play functionality at extended distances in a cost-effective package.

MPO Splitter Module

The OFS MPO Splitter Module is available in multiple configurations to meet customer requirements. The OFS splitters also utilize Flame Hydrolysis Deposition (FHD) technology, ensuring better thermal stability. Designed to meet the demanding requirements of both inside and outside plant applications, the splitter module meets Telcordia GR-1221-CORE and GR-1209-CORE Requirements.

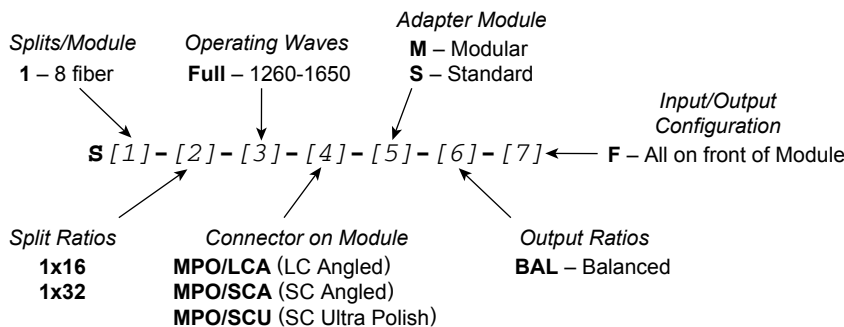
The 8 fiber MPO interface on the module output allows customers to minimize the number of cable sheaths exiting the module, simplifying cable management. Fanout lengths can be ordered based on individual engineering requirements, limiting the amount of slack that needs to be accommodated in a restricted amount of space.



MPO Splitter Module Specifications		
Specification	1 x 16	1 x 32
Operating Wave Length:	1260-1625 nm	
Max Insertion Loss With Connectors (max.):	14.2	17.2 dB
PDL (max.):	0.3 dB	
Return Loss (min.) ¹ :	50 dB	
Directivity (min.) ¹ :	50 dB	
Operating temperature:	Min. -40 °C Max. 75 °C	
Storage temperature:	Min. -40 °C Max. 85 °C	

¹ Without Connectors

Custom Splitter Module Ordering Scheme



Note: Contact your local OFS Representative for custom module configurations.

Splitter Module Ordering Information		
Comcode	Product Code	Description
300449352	S1-1X32-FULL-MPO/LCA-S-BAL-F	1x32 PLC Full Spectrum 1310 thru 1650 MPO Module, LCA Input
300505856	S1-1X32-FULL-MPO/SCA-S-BAL-F	1x32 PLC Full Spectrum 1310 thru 1650 MPO Module, SCA Input



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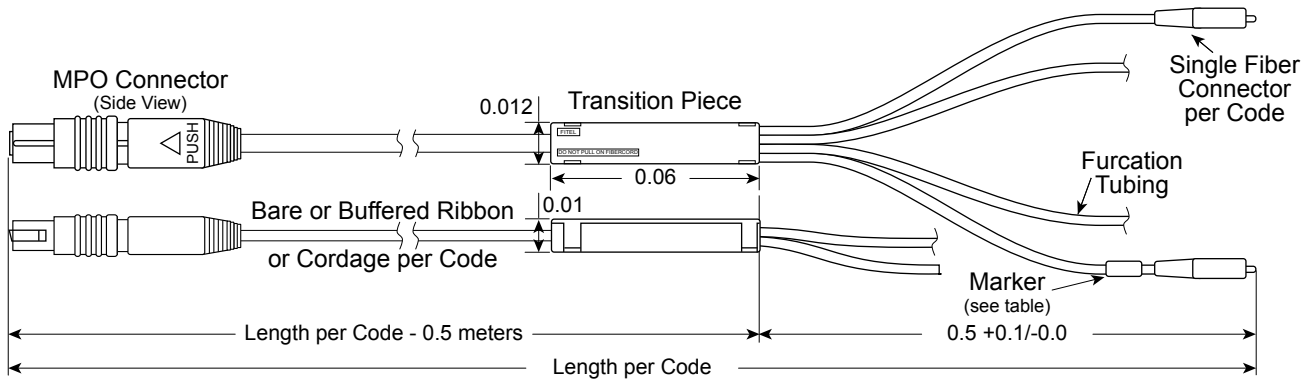
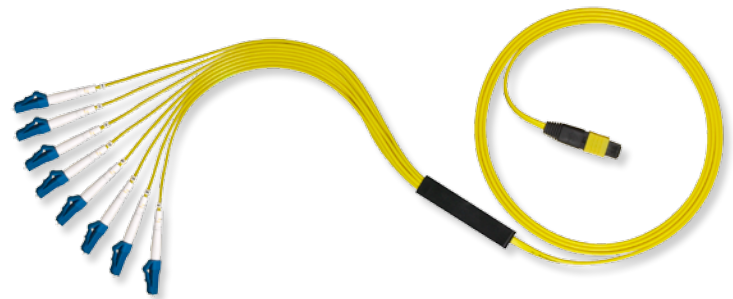
MPO Passive Optical Splitter Modules & Fanouts

MPO Fanouts

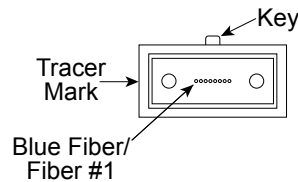
The OFS MPO fanouts provide reliable, high-quality transitions to individual fiber connection ports. They are available with SC and LC connectors, and offer low insertion loss and reflectance.

MPO Fanout Specifications				
Connector Type	Ferrule/Polish	Loss (Typical)	Loss (Max)	Return Loss (Min)
MPO	Single-Mode Low Loss APC	0.16 dB	0.35 dB	55 dB
Single Fiber	Single-Mode UPC	0.20 dB	0.50 dB	55 dB
Single Fiber	Single-Mode APC	0.30 dB	0.50 dB	65 dB

Take advantage of years of knowledge and expertise behind the PLC device! Over 40,000 PLCs have been produced by Furukawa Electric using the FHD production technology. FHD helps keep the water out and is suitable for outside plant applications.



Fiber Number (Wire Marker)	Fiber Color
1	Blue
2	Orange
3	Green
4	Brown
5	Slate
6	White
7	Red
8	Black





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For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



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OFS Marketing Communications
DOC: fap-222 Date: 07/17



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