



Splitter / Combiner Modules and Cables



Overview

Splitter/Combiner technology provides the ability to propagate two signals, transmit (TX) and receive (RX), over a single fiber strand using the same wavelength. The Fiber Driver® Splitter/Combiner modules, and Splitter/Combiner cables for GBICs and SFPs effectively double the availability of fiber in a network. They are fully passive devices that operate at a specific wavelength, and remain protocol and network transparent.

A pair of Splitter/Combiners add a power loss of only up to 7 dB for SM and MM fiber. Angled Polished Connectors (APCs) are used at the link connections to eliminate reflections.

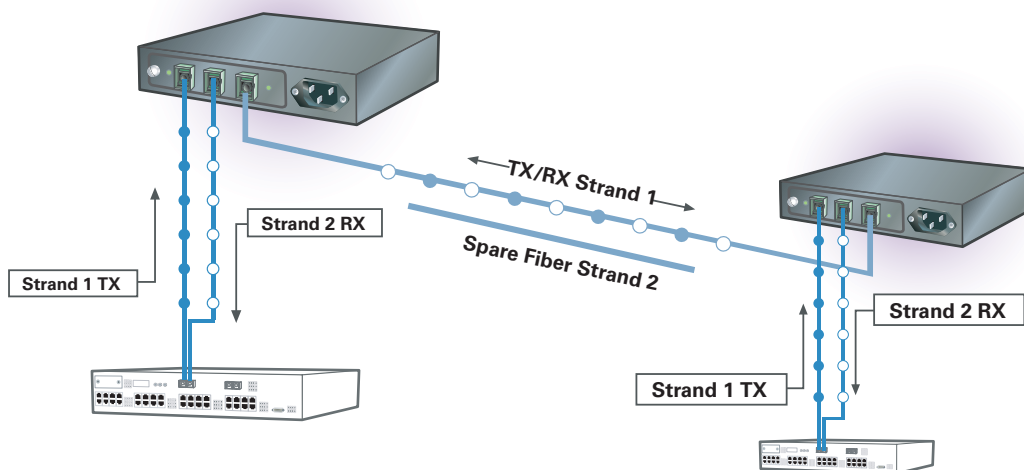
For additional information including pricing and availability, contact your MRV Communications sales representative today.

Features

- Combines transmit and receive signals onto a single fiber strand - effectively doubles fiber cable availability
- Protocol and network transparent operation
- Fully passive devices - no power requirements
- Low insertion loss
- SNMP managed (modules in powered Fiber Driver chassis, only)
- Available as a 1-slot Fiber Driver module, or as a cable for GBIC and SFP applications
- Support for WDM, 2 Wavelength Single Fiber modules and cables



*Photographs are for reference only. Please refer to the ordering information for specifications.





Physical Specifications: Splitter / Combiner Modules

Operating Temperature Range:	0°C to 50°C (32°F to 122°F)
Storage Temperature:	-40°C to 95°C (-40°F to 203°F)
Relative Humidity:	85% maximum, non-condensing
Physical Dimensions:	25 mm x 75 mm x 175 mm deep (1" x 3" x 7" deep)
Weight:	Approximately 213 g (7.5 oz)
Emission Compliance:	FCC - PART 15, SUBPART B, 1999, CLASS A; CE MARK - EN 50081-1:1992; EN 50082:1997; EN 55024:1998; EN 55022:1998; AS/NZS 3548:1995

Physical Specifications: Splitter / Combiner Cables

Operating Wavelength, nm	1310 ± 40 or 1550 ± 40
Grade	Super (S)
Typical Excess Loss, dB	0.1
Uniformity, dB (50:50)	0.6
Thermal Stability, dB (peak-peak)	< 0.2
Polarization Stability, dB	< 0.10
Port Configuration	1 x 2 or 2 x 2
Coupling Ratio	50 : 50
Insertion Loss, dB	3.5
Directivity, dB	> 50 (1 x 2)
Reflectance, dB	< -55
Operating Temperature, °C/°F	-40° to 85° / -40° to 185°
Storage Temperature, °C/°F	-40° to 85° C / -40° to 185°
Relative Humidity	85% maximum, non-condensing

MODULES

Ordering Info	Part Number	Function	Protocol	Connectors Port/Link	Wavelength (nm)	Insertion Loss (dB)	Fiber Core (µm)
		EM316SC/3M	Dual Fiber to Single Fiber MM Converter	Any	SC (x2)/SC-APC	1310	3.5
	EM316SC/8M	Dual Fiber to Single Fiber MM Converter	Any	SC (x2)/SC-APC	850	3.5	62.5
	EM316SC/3S	Dual Fiber to Single Fiber SM Converter	Any	SC (x2)/SC-APC	1310	3.5	9
	EM316SC/5S	Dual Fiber to Single Fiber SM Converter	Any	SC (x2)/SC-APC	1550	3.5	9
	EM316SC/MS	Dual Fiber to Single Fiber SM Converter	Any	SC (x2)/SC-APC	1270 - 1610	3.5	9

CABLES

Ordering Info	Part Number	Function	Protocol	Connectors Port/Link	Wavelength (nm)	Insertion Loss (dB)
		PASCLCAS/3S	Passive Splitter-Combiner Cable, SM	Any	LC/SC-APC	1310
	PASCLCAS/5S	Passive Splitter-Combiner Cable, SM	Any	LC/SC-APC	1550	3.5
	PASCSCAS/3S	Passive Splitter-Combiner Cable, SM	Any	SC(x2)/SC-APC	1310	3.5
	PASCSCAS/5S	Passive Splitter-Combiner Cable, SM	Any	SC(x2)/SC-APC	1550	3.5
	PASCSCAS/3M	Passive Splitter-Combiner Cable, MM	Any	SC(x2)/SC-APC	1310	3.5
	PASCSCAS/8M	Passive Splitter-Combiner Cable, MM	Any	SC(x2)/SC-APC	850	3.5
	PASCLCAS/3M	Passive Splitter-Combiner Cable, MM	Any	LC/SC-APC	1310	3.5
	PASCLCAS/8M	Passive Splitter-Combiner Cable, MM	Any	LC/SC-APC	850	3.5
	PADMSYY/XX	Passive Splitter-Combiner Cable, SF (YY=Conn.Type: MU, SC, LC; XX=Wavelength from Wavelength Chart)	Any	YY/YY	XX/XX	3.5
	PASCSC/3155	Passive 2 Wavelength WDM Cable, SF	Any	SC(x2)/SC	1310 / 1550	1.2
	PAWSC/5559	Passive 2 Wavelength WDM Cable, SF	Any	SC(x2)/SC	1550 / 1590	1.2
	PAWLCSC/5559	Passive 2 Wavelength WDM Cable, SF	Any	LC/SC	1550 / 1590	1.2



Wavelength Chart	(XX)	Wavelength	(XX)	Wavelength
	31	1310 nm	47	1470 nm
	33	1330 nm	49	1490 nm
	35	1350 nm	51	1510 nm
	37	1370 nm	53	1530 nm
	39	1390 nm	55	1550 nm
	41	1410 nm	57	1570 nm
	43	1430 nm	59	1590 nm
45	1450 nm	61	1610 nm	

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