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ATTENUATORS



ST Bulkhead



FC Bulkhead



SC Bulkhead

Adaptor สำหรับลดทอนสัญญาณ ชนิดตัวเมียทั้ง 2 ด้าน



FC Male to FC Female



SC Male to SC Female



ST Male to ST Female



MU Male to MU Female



LC Male to LC Female

Adaptor สำหรับลดทอนสัญญาณ ชนิดตัวเมีย/ตัวผู้



FC-Bulkhead



ST-Bulkhead

Adaptor สำหรับลดทอนสัญญาณ ชนิดปรับค่าได้ ตัวเมียทั้ง 2 ด้าน

BULKHEAD FEMALE TO FEMALE ATTENUATORS

Part #	Description	List Price
B1-8121S	5 dB ST Attenuator for 1310/1550 nm	208
B1-8122S	10 dB ST Attenuator for 1310/1550 nm	208
B1-8123S	15 dB ST Attenuator for 1310/1550 nm	208
B1-8124S	20 dB ST Attenuator for 1310/1550 nm	208

B1-8221S	5 dB FC Attenuator for 1310/1550 nm	208
B1-8222S	10 dB FC Attenuator for 1310/1550 nm	208
B1-8223S	15 dB FC Attenuator for 1310/1550 nm	208
B1-8224S	20 dB FC Attenuator for 1310/1550 nm	208

B1-8321S	5 dB SC Attenuator for 1310/1550 nm	208
B1-8322S	10 dB SC Attenuator for 1310/1550 nm	208
B1-8323S	15 dB SC Attenuator for 1310/1550 nm	208
B1-8324S	20 dB SC Attenuator for 1310/1550 nm	208

BUILDOUT MALE TO FEMALE ATTENUATORS

Part #	Description	List Price
B1-8721	FC Male - FC Female 5 dB Attenuator for 1310 nm/1550 nm	604
B1-8722	FC Male - FC Female 10 dB Attenuator for 1310 nm/1550 nm	604
B1-8723	FC Male - FC Female 15 dB Attenuator for 1310 nm/1550 nm	604
B1-8724	FC Male - FC Female 20 dB Attenuator for 1310 nm/1550 nm	604
B1-8731	SC Male - SC Female 5 dB Attenuator for 1310 nm/1550 nm	604
B1-8732	SC Male - SC Female 10 dB Attenuator for 1310 nm/1550 nm	604
B1-8733	SC Male - SC Female 15 dB Attenuator for 1310 nm/1550 nm	604
B1-8734	SC Male - SC Female 20 dB Attenuator for 1310 nm/1550 nm	604
B1-9621	ST Male - ST Female 5 dB Attenuator for 1310 nm/1550 nm	604
B1-9622	ST Male - ST Female 10 dB Attenuator for 1310 nm/1550 nm	604
B1-9623	ST Male - ST Female 15 dB Attenuator for 1310 nm/1550 nm	604
B1-9321	LC Male - LC Female 5 dB Attenuator for 1310 nm/1550 nm	668
B1-9322	LC Male - LC Female 10 dB Attenuator for 1310 nm/1550 nm	668
B1-9323	LC Male - LC Female 15 dB Attenuator for 1310 nm/1550 nm	668
B1-9521	MU Male - MU Female 5 dB Attenuator for 1310 nm/1550 nm	672
B1-9522	MU Male - MU Female 10 dB Attenuator for 1310 nm/1550 nm	672
B1-9523	MU Male - MU Female 15 dB Attenuator for 1310 nm/1550 nm	672
B1-8224	FC/APC Male - FC/APC Female 5 dB Attenuator for 1310 nm/1550 nm	648
B1-8225	FC/APC Male - FC/APC Female 10 dB Attenuator for 1310 nm/1550 nm	648
B1-8226	FC/APC Male - FC/APC Female 15 dB Attenuator for 1310 nm/1550 nm	648
B1-8334	SC/APC Male - SC/APC Female 5 dB Attenuator for 1310 nm/1550 nm	648
B1-8335	SC/APC Male - SC/APC Female 10 dB Attenuator for 1310 nm/1550 nm	648
B1-8336	SC/APC Male - SC/APC Female 15 dB Attenuator for 1310 nm/1550 nm	648

AIR-GAP VARIABLE ATTENUATORS

The Air-Gap Variable Attenuator has a ceramic alignment sleeve that provides a low insertion loss of 15 dB and can be used on both Multi-Mode and Single-Mode applications. Included tool provides ability to increase attenuation level to desired dB. Device may replace mating sleeve at the patchpanel, enabling variable attenuation levels to be introduced to the system. Attenuation range is 0 dB depending on light source.

Part #	Description	List Price
B1-8432	Air-Gap Variable ST Attenuator (0-15 dB)	call
B1-8433	Air-Gap Variable FC Attenuator (0-20 dB)	call



FIBER OPTIC COMPONENTS COUPLERS/SPLITTER

COUPLERS

Feature :

- Low Excess Loss
- High Return Loss
- Various Coupling Ratio
- Compact Size

Application :

- Long-haul Telecommunications
- CATV Systems & Fiber optic Sensors
- LAN System

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Single-Mode Standard Couplers (Order Information)

CP	Type	Wavelength	Coupler Ratio	Port	Package	Fiber Type	Connector
	S = Standard Coupler	10 = 1060nm, 13 = 1310nm	50 = 50/50	0101 = 1x2	M, N, A, B,	1 = 250µm Bare Fiber	NE = None
	W = Wide Band Coupler	14 = 1480nm, 15 = 1550nm	30 = 30/70	0202 = 2x2	C, E, F, G,	2 = 900µm Loose Tube	FA = FC/APC
	D = Dual Window	16 = 1585nm, 83 = 830nm	20 = 20/80		H	3 = 3mm Cable	FC = FC/PC
		85 = 850nm, 98 = 980nm	05 = 5/95			X = Other	SA = SC/APC
		35 = 1310/1550nm	01 = 1/99				SC = SC/PC
		36 = 1310/1585nm					ST = ST/PC
		XX = Others					LA = LC/APC

Size of Package : (Stainless tube) : M = 3x40mm, N = 3x48mm, A = 3x54mm, B = 3x60mm, C = 8.5x14x98mm, E = 3x35mm, F = 3x35mm, G = 2.4x30mm, H = 2.4x25mm

Single-Mode Wideband Couplers (Order Information)

CP	Type	Wavelength	Coupler Ratio	Port	Package	Fiber Type	Connector
	S = Standard Coupler	10 = 1060nm, 13 = 1310nm	50 = 50/50	0101 = 1x2	M, N, A, B,	1 = 250µm Bare Fiber	NE = None
	W = Wide Band Coupler	14 = 1480nm, 15 = 1550nm	30 = 30/70	0202 = 2x2	C, E, F, G,	2 = 900µm Loose Tube	FA = FC/APC
	D = Dual Window	16 = 1585nm, 83 = 830nm	20 = 20/80		H	3 = 3mm Cable	FC = FC/PC
		85 = 850nm, 98 = 980nm	05 = 5/95			X = Other	SA = SC/APC
		35 = 1310/1550nm	01 = 1/99				SC = SC/PC
		36 = 1310/1585nm					ST = ST/PC
		35/49=1310/1550/1490nm					LA = LC/APC

Single-Mode Tree/Star Couplers (Order Information)

CP	Type	Wavelength	Coupler Ratio	Port	Package	Fiber Type	Connector
	S = Standard Coupler	10 = 1060nm, 13 = 1310nm	50 = 50/50	0101=1x2	C case	1 = 250µm Bare Fiber	NE = None
	W = Wide Band Coupler	14 = 1480nm, 15 = 1550nm	30 = 30/70	0202=2x2	D case	2 = 900µm Loose Tube	FA = FC/APC
	D = Dual Window	16 = 1585nm, 83 = 830nm	20 = 20/80	0103=1x3	E case	3 = 3mm Cable	FC = FC/PC
		85 = 850nm, 98 = 980nm	05 = 5/95	0104=1x4	S case	X = Other	SA = SC/APC
		35 = 1310/1550nm	01 = 1/99	0108=1x8			SC = SC/PC
		36 = 1310/1585nm	AV=Tree coupler	0116=1x16			ST = ST/PC

Size of Package : (Stainless tube) : M = 3x40mm, N = 3x48mm, A = 3x54mm, B = 3x60mm, C = 8.5x14x98mm, E = 3x35mm, F = 3x35mm, G = 2.4x30mm, H = 2.4x25mm

PLC SPLITTER

Feature :

- Compacted Packaging Size
- Loss IL, PDL, Uniformit
- GR-1209-CORE & GR-1221-CORE

Application :

- CATV
- Telecommunications & Data
- FTTH & EPON
- Fiber Optic Equipment & Systems

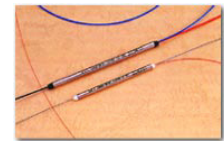
Spec and Parameter

Port Configuration	1x4	1x8	1x16	1x32
Max.Insertion Loss(dB)	<= 7.5	<= 11.0	<=14.0	<=18.0
Loss Uniformity(dB)	<= 1.0	<= 1.0	<=1.5	<=2.0
Package Size(mm)HxWxL	4x4x40	4x4x42-40	4x5x50	4x7x60

Return Loss (dB)	>= 50
Directivity (dB)	>= 55
Operation Wavelength (nm)	1310&1550+/-40nm
Temperature (°C)	-40 ~ 85

SPLITTER Order Information

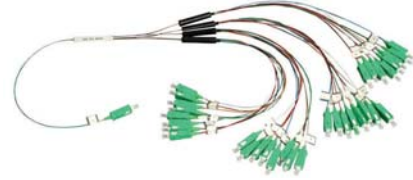
PLC	Input	Input Fiber	Input Fiber	Output	Output Fiber	Output Fiber	Connector
	Channel	Type	Length	Channel	Type	Length	
	1 = 1 Ch	B = 250µm Bare	10 = 1.0m	04 = 4 Ch	B = 250µm Bare	10 = 1.0m	NE = None
	2 = 2 Ch	Fiber	15 = 1.5m	08 = 8 Ch	Fiber	15 = 1.5m	FA = FC/APC
		L = 900µm		16 = 16 Ch	L = 900µm		FC = FC/PC
		Loose Tube		32 = 32 Ch	Loose Tube		SA = SC/APC
		T = 900µm			T = 900µm		SC = SC/PC
		Tight Buffer			Tight Buffer		



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ODF สำหรับ Splitter หรือ Coupler ของงานประเภท Fiber to the home



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INLINE FIXED VALUE ATTENUATOR



สาย Patch Cord สำหรับลดทอนสัญญาณ ชนิดค่าคงที่

Feature :

- Low backreflection
- Choice of attenuating values; value from 1 dB onward.
- With increment of 1 dB
- Single-Mode and Multi-Mode are available

The inline fixed value attenuator will be applied if the back reflection is a key concern in the application or at the environment at where plug attenuator cannot be placed. It will be custom built with various Length and the connector of your choice.

Patchcord Type	Wavelength	Attenuation Value	List Price
Single-Mode Patchcord	ILVA : 1310 & 1550 nm	01 : 1 dB	call
Multi-Mode Patchcord	ILVB : 1310 nm	02 : 2 dB	call
	ILVC : 1550 nm	03 : 3 dB	call
	ILVD : 850 nm, ILVE : 1300 nm	30 : 30 dB	call

e.g., S1F2F2-01-0010-GF ILVA-03
FC/UPCtoFC/UPC,3mmcable,simplex,9/125Single-Mode,3dBattenuation,1310&1550nmWavelength

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VARIABLE ATTENUATOR



PVATFC20 PVATST20
Adaptor สำหรับลดทอนสัญญาณ ชนิดตัวผู้/ตัวเมีย ปรับค่าได้

Plug Type Variable Attenuator

This "air-gap control" variable attenuator is commonly used as a verification tool and for temporary adjustment of the attenuation value. Different attenuation value can be maintained. To achieve a very accurate attenuation value, installing the variable attenuator accompanying with the power meter is recommended.

Part #	Description	List Price
PVATFC20	FC Single-Mode Plug Type Variable Attenuator 9/125 µm 1-20 dB	call
PVATST20	ST Single-Mode Plug Type Variable Attenuator 9/125 µm 1-20 dB	call
PVAMFC20	FC Multi-Mode Plug Type Variable Attenuator 62.5/125 µm 1-20 dB	call
PVAMST20	ST Multi-Mode Plug Type Variable Attenuator 62.5/125 µm 1-20 dB	call
PVAPFC20	FC Multi-Mode Plug Type Variable Attenuator 50/125 µm 1-28 dB	call
PVAPST20	ST Multi-Mode Plug Type Variable Attenuator 50/125 µm 1-20 dB	call

INLINE VARIABLE ATTENUATOR

Features:

- 1-28 dB Attenuation Range
- Min 55 dB Return Loss
- Max 0.3 dB Insertion Loss



สาย Patch Cord สำหรับลดทอนสัญญาณ ชนิดปรับค่าได้

This Inline Variable Attenuator provides an economical and convenient way to fine adjust the attenuation using in conjunction with the power meter. One end is FC/ST variable attenuator connector, while the other end can be other types of connector.

Part #	Description	List Price
INVFCFSM	FC/UPC to FC/UPC 3 mm Single-Mode 1-18 dB	call

TERMINATOR



Connector สำหรับลดทอนสัญญาณ ชนิดต่อปลายสาย Fiber Optic

PLUG-TYPE TERMINATOR

Optical terminator reduces the back reflection (BR) associated with an open (bare) connector, which is important to equipment/instrument where sensitivity to BR is a concern.

Part #	Description	List Price
FCUPC-5	FC/UPC Single-Mode	call
SCUPC-5	SC/UPC Single-Mode	call
STUPC-5	ST/UPC Single-Mode	call
LCUPC-5	LC/UPC Single-Mode	call
MUUPC-5	MU/UPC Single-Mode	call
FCAPC-5	FC/APC Single-Mode	call
SCAPC-5	SC/APC Single-Mode	call
LCAPC-5	LC/APC Single-Mode	call
MUAPC-5	MU/APC Single-Mode	call
FC-M	FC Multi-Mode	call
SC-M	SC Multi-Mode	call
ST-M	ST Multi-Mode	call
LC-M	LC Multi-Mode	call
MU-M	MU Multi-Mode	call

