

Single Window Single Mode Coupler

Auxora 1x2/2x2 single mode couplers offer low insertion loss, low PDL and excellent environmental stability, these couplers feature good channel uniformity and accurate coupling ratio from 50/50 to 1/99 with 250um bare fiber,900um loose tube and 2.0mm/3.0mm jacket available.

Single window couplers can be used for power splitting and monitoring with operating wavelength of 1310/1480/1550/1590nm.



FEATURES

- Low excess loss
- Good channel uniformity
- High stable & reliable
- Epoxy free optical path
- Telcordia GR-1221 and GR1209 compliant

APPLICATIONS

- Fiber optic amplifier
- Long-haul telecommunications
- CATV systems & fiber optic sensors
- FTTH & LAN

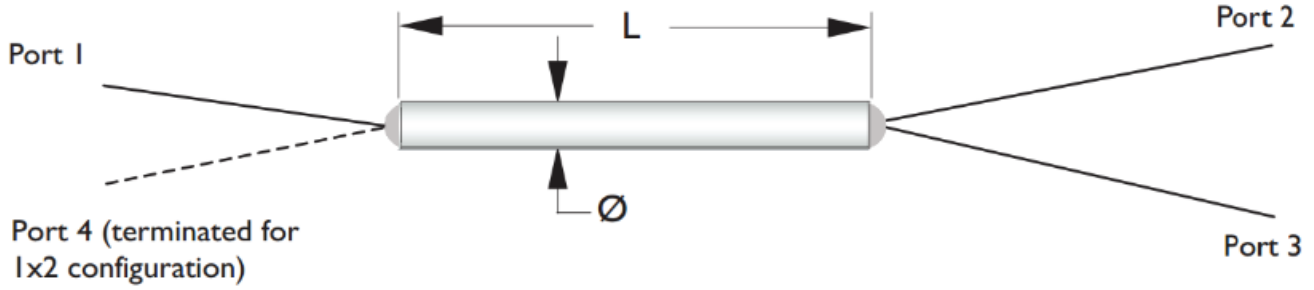
SPECIFICATIONS

Parameters		Unit	Value	
			P Grade	A Grade
Operating Wavelength Range		nm	1310±15 or 1550±40 or others on request	
Typical Excess Loss		dB	≤ 0.07	≤ 0.10
Insertion Loss	50/50	dB	≤ 3.4	≤ 3.6
	40/60		≤ 4.4/2.6	≤ 4.7/2.8
	30/70		≤ 5.7/1.9	≤ 6.0/2.0
	20/80		≤ 7.6/1.2	≤ 8.0/1.3
	10/90		≤ 11.0/0.75	≤ 11.5/0.8
	5/95		≤ 14.2/0.4	≤ 14.8/0.5
	2/98		≤ 18.5/0.25	≤ 19.0/0.35
	1/99		≤ 21.50/0.20	≤ 22.0/0.30
Polarization Dependent Loss		dB	≤ 0.10	≤ 0.15
Directivity		dB	≥ 55	
Maximum Power Handling		mW	500	
Operating Temperature		°C	-40 ~ 85	
Storage Temperature		°C	-40 ~ 85	
Package Size		mm	Φ3.0xL45 (250um bare fiber) Φ3.0xL54 (900um loose tube) 90x20x10 (900um loose tube or 2mm/3mm Cable)	
Fiber Type		--	SMF-28e+ or ITU-T G657.A	

NOTES:

- 1) All specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.
- 2) IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

Packing Dimensions(mm)



Ordering Information: (e.g. AFC-S102A50513060-1010-00)

AFC-	X	XXX	X	XX	X	XX	XX	X	-	XX	XX	-	X	X
	Coupler Type	Port Configuration	Grade	Coupling Ratio	Package	Wavelength	Fiber Type	Fiber Jacket	Fiber Length		Connector			
									Input	Output	Input	Output		
	S=Single Mode	102=1x2	P=P Grade	50=50/50	5=3.0x45	13=1310	06=G657.A1	0=250um Bare fiber	10=1.0m	10=1.0m	0=None	0=None		
		202=2x2	A=A Grade	45=45/55	6=3.0x54	14=1480	07=G657.A2	1=900um tube	12=1.2m	12=1.2m	1=FC/UPC	1=FC/UPC		
				A=90x20x10	15=1550	XX=Customized	2=2.0mm Cable	2=FC/APC	2=FC/APC		
				02=2/98	X=Customized	16=1590		3=3.0mm Cable	15=1.5m	15=1.5m	3=SC/UPC	3=SC/UPC		
				01=1/99				X=Customized	NA=N/A	NA=N/A	4=SC/APC	4=SC/APC		
									XX=Customized	XX=Customized	5=LC/UPC	5=LC/UPC		
											6=LC/APC	6=LC/APC		
											X=Customized	X=Customized		