

epour elfors

Description

Renka® SmartCONNECT™ Single Wavelength Couplers are low loss branching components, used to combine and split light with low loss and high performance. This class of couplers provides optimal performance at central wavelength. Fabricated using proven fused biconical taper (FBT) technology, these couplers offer excellent performance to meet the most stringent application requirements.

Renka couplers are designed and tested to Bellcore GR-1209/GR-1221 performance and reliability industry standards.

Wavelength Independent Coupler



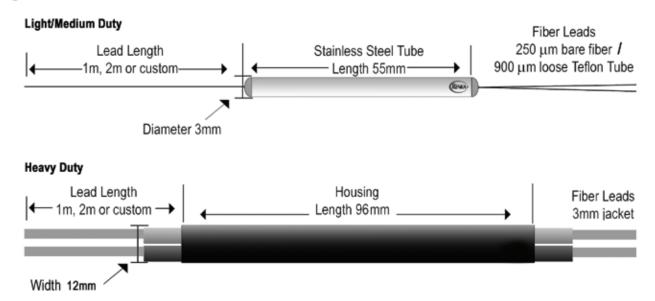
Applications

- · Fiber Communication Systems
- CATV
- Passive Optical Networks
- Test and Measurement Systems
- Local Area Networks
- · Dual Wavelength Monitoring
- Dual Wavelength Source Stabilization

Benefits

- Low Insertion Loss
- · Excellent Uniformity
- Wide Bandpass
- Superior Reliability
- · Environmentally Stable
- Compact Packaging
- Low PDL
- High Directivity

Package Dimensions



Coupler Specifications (based on 50/50 split ratio)

		UNIT	Premium	Standard	
Insertion Loss (max)		dB	3.4	3.6	
Uniformity		dB	0.7	1.0	
Polarization Dependent Loss (PDL - Max)		dB	0.1	0.15	
Typical Excess Loss		dB	0.1	0.3	
Return Loss/Directivity		dB	>=55		
Operating Wavelength		nm	1310 and 1550		
Bandpass		nm	±40		
Port Configuration			1x2 or 2x2		
Packaging	Light/Medium Duty	mm	Stainless Steel Tube = :	Stainless Steel Tube = 55L x 3∅ / 65L x 3∅	
	Heavy Duty	mm	Plastic Housing	= 96L x 12W	
Lead Type			250μm bare fiber, 900μm loos	Oμm bare fiber, 900μm looseTeflon tube, or 3mm jacket	
Standard Lead Length (input and output)		m	1, 2 or c	or custom	
Maximum Pull Strength		N	5	5	
Maximum Power Handling		mW	200	200	
Thermal Stability		dB/°C	±0.0	.002	
Operating Temperature		જ	-40 to	-40 to +75	
Storage Temperature		%	-40 to	+85	

Split Ratio and Insertion Loss/PDL Chart

	Insertion Loss (P	PDL (Secondary)		
Split Ratio	Premium	Standard	Premium	Standard
50/50	3.4/3.4	3.6/3.6	0.1	0.15
60/40	2.7/4.7	2.9/5.0		
70/30	1.9/5.8	2.1/6.2	0.2	0.25
80/20	1.2/7.8	1.4/8.2		
90/10	0.7/11.3	0.8/12.5		
95/5	0.4/14.4	0.6/18.0	0.3	0.35

