



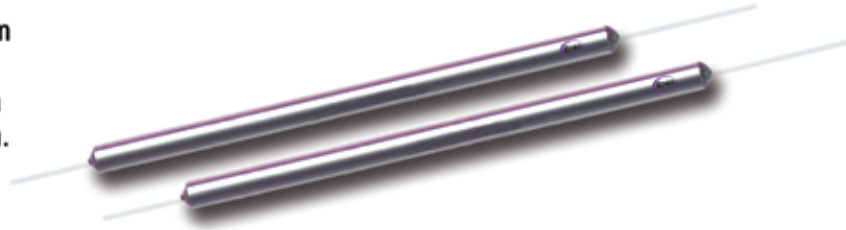
wavelength division multiplexers

Description

Renka® SmartCONNECT™ fused Wavelength Division Multiplexers (WDMs) for EDFAs are designed to efficiently combine 980 or 1480nm pump and 1550nm signal power in erbium doped fiber amplifiers. Fabricated using proven fused biconical taper (FBT) technology, these WDMs offer ultra low insertion loss and PDL, while providing high isolation.

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

Single Mode Fused WDM for EDFAs



Applications

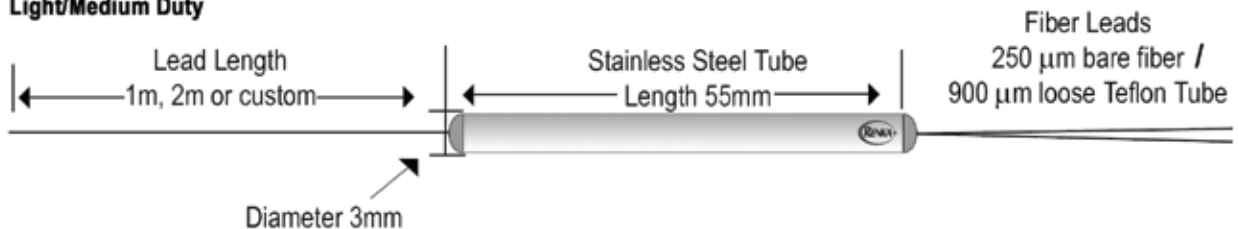
- EDFAs
- Fiber Communication Systems
- Test and Measurement Systems

Benefits

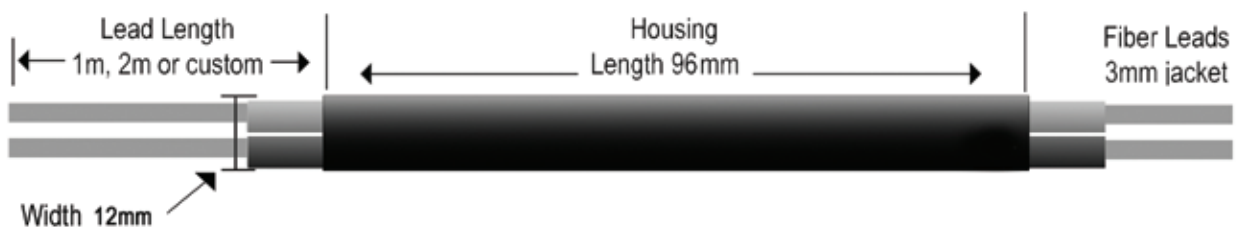
- Low Insertion and Polarization Dependent Loss
- Excellent Wavelength Isolation
- Compact Packaging
- High Directivity
- Superior Reliability
- Environmentally Stable

Package Dimensions

Light/Medium Duty



Heavy Duty



980/1550 Fused WDM

	UNIT	Premium	Standard
Insertion Loss (max)	dB	0.3	0.5
Isolation	dB	20	18
Polarization Dependent Loss (PDL)	dB	≤0.1	
Return Loss/Directivity	dB	≥55	
Operating Wavelength	nm	980/1550	
Bandpass	nm	±10	
Port Configuration		1x2	
Packaging	Light/Medium Duty Heavy Duty	mm	Stainless Steel Tube = 55L x 3∅ / 65L x 3∅ Plastic Housing = 96L x 12W
Lead Type		250μm bare fiber, 900μm loose Teflon tube, or 3mm jacket	
Standard Lead Length (input and output)	m	1, 2 or custom	
Maximum Power Handling	mW	250	
Operating Temperature	°C	-40 to +75	
Storage Temperature	°C	-40 to +85	

1480/1550 Fused WDM

	UNIT	Premium	Standard
Insertion Loss (max)	dB	0.3	0.5
Isolation	dB	15	13
Polarization Dependent Loss (PDL)	dB	≤0.1	
Return Loss/Directivity	dB	≥55	
Operating Wavelength	nm	1480/1550	
Bandpass	nm	±5	
Port Configuration		1x2	
Packaging	Light/Medium Duty Heavy Duty	mm	Stainless Steel Tube = 55L x 3∅ / 65L x 3∅ Plastic Housing = 96L x 12W
Lead Type		250μm bare fiber, 900μm loose Teflon tube, or 3mm jacket	
Standard Lead Length (input and output)	m	1, 2 or custom	
Maximum Power Handling	mW	250	
Operating Temperature	°C	-40 to +75	
Storage Temperature	°C	-40 to +85	

Ordering Information

WDM□-□□-□□-□□

Grade

P: Premium
S: Standard

Wavelength

15: 980/1550
45: 1480/1550

Package Type

L: Light Duty
M: Medium Duty
H: Heavy Duty

Lead Length

1: 1 meter
2: 2 meters
C: Custom

Connector Type

0: None