

# wavelength division multiplexer couplers

## single-mode (premium)

1310/1550nm WDM is fabricated using an advanced fused biconical taper technology and meets Bellcore GR-1209 and GR-1221 specifications. The 1310/1550nm WDM separates or combines light in the 1310 and 1550nm bands over an ultra wide bandwidth ( $\pm 20$ nm) and wide temperature range while maintaining excellent stability and low insertion loss. The 1310/1550nm WDM is suited to meet the needs of CATV systems while flexible enough to be used in fiber-optic instruments.

### features

- Low insertion loss
- Ultra wide bandwidth
- Wide operating temperature
- Low PDL
- Highly stable and reliable
- Epoxy-free optical path

### application

- Telecommunications systems
- CATV
- Fiber-optic sensors and instruments
- Subscriber loops



## single-mode (custom)

The custom series of 1310nm and 1550nm Single-mode Wavelength Division Multiplexers (WDM) are used to either combine different wavelengths for transmission over a single fiber (multiplex) or separate wavelengths transmitted over a single fiber into individual fibers (demultiplex).

They have excellent optical characteristics and are environmentally stable. These devices can be used in either unidirectional or bi-directional systems in Telecommunications, CATV, High Speed Data and Metropolitan Area Networks. Various isolations are available for demultiplexing applications.

The Optical Amplifier Wavelength Division Multiplexer (OA-WDM) provides low insertion loss over the optical band-pass while maintaining high isolation. They have excellent optical characteristics and are environmentally stable. These devices are ideal for use in laser pump systems at 980nm.

### features

- Small package
- Available with customized wavelengths
- Unidirectional or bi-directional operation
- Excellent optical characteristics
- Excellent near-end and far-end crosstalk
- Environmentally stable
- Over ten years of proven field reliability
- Available with ruggedized packaging, including connectorization

### application

- Telecommunications systems
- CATV
- Fiber-optic sensors and instruments
- Subscriber loops

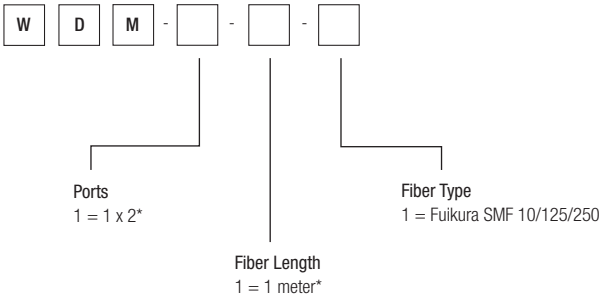
specifications (single-mode custom)

Configuration	1 x 2
Wavelength	1310 / 1550nm or 980 / 1550nm
Directivity	<-65dB
Operating Temperature	-40° to+ 85°C
Typical Temperature Stability	<0.1dB
Typical Polarization Stability (passband)	<0.1dB

ISOLATION REFERENCE	ISOLATION (dB)	INSERTION LOSS (dB)
16	16	0.4
20	20	0.4
32*	32	0.8
44*	44	1.2

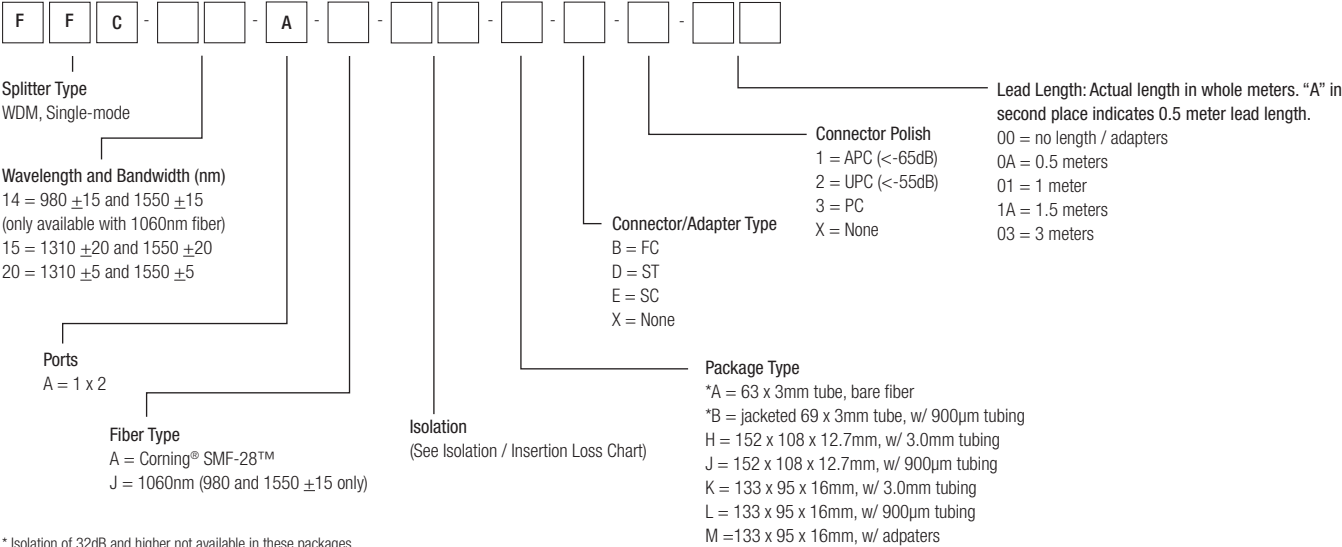
\*Isolation of 32dB and higher not available in 63mm L or 69mm L x 3mm OD

ordering information (single-mode premium)



\* Standard

ordering information (single-mode custom)



\* Isolation of 32dB and higher not available in these packages.



For more information or to place an order call 1.800.235.3423