



1x2 and 1x4 Y-Cable

Wave2Wave's 1x2 and 1x4 Y-cables are compact and reliable devices that feature low back reflections, low insertion loss and high port isolation over a wide range of temperature and wavelengths. These devices allow two different wavelength ranges to be split at equal ratios over a wide bandwidth that delivers exceptional characteristics for all applications needing critical performance.

Wave2Wave's Y-cables are designed to be very compact which allows for installation in the back directly, screwed into a cassette, or use mounting holes. Wave2Wave can provide customized designs to meet specialized feature applications such as dual or tri windows. All devices are tested according to industry standards.

Performance Specifications

Item		Y-Cable 1x2 or 2x2		Y-Cable 1(2) x 4	
Operating Wavelength, nm		1310 ± 40 and 1550 ± 40		1310 ± 40 and 1550 ± 40	
Grade		Super (S)	High (H)	High (H)	Standard (A)
Typical Excess Loss, dB		0.08	0.2	0.2	0.6
Uniformity, dB (50:50)		0.8	1.2	0.9	1.4
Thermal Stability, dB (peak-peak)		≤ 0.2	≤ 0.3	-	-
Polarization Stability, dB		≤ 0.1	≤ 0.15	-	-
Port Configuration		1 x 2 or 2 x 2		-	
Coupling Ratio		50:50		25:25:25:25	
Directivity, dB		≥ 50 (1 x 2), ≥ 60 (2 x 2)		-	
Reflectance, dB		≥ 50		-	
Storage Temperature, °C		-55° C to 85° C		-55° C to 85° C	
Operating Temperature, °C		-40° C to 85° C		-40° C to 85° C	
Package Options (for different pigtailing)	1. Coated fiber (250 μm)	A1 (see detail mechanical drawing)		A1 (see detail mechanical drawing)	
	2. Loose tube (900 μm)				
	3. PVC cable (2.0 mm)				



1x4 Y-Cable Patch Cord

Features

- Low Insertion Loss
- Environmentally Stable (-40° to 85° C)
- Integrated Mounting Holes
- Customized packaging available
- Third window option available at 1490 nm

Benefits

- Compact device allowing installation in the back directly, screwed into a cassette, or use mounting holes
- Can be customized with dual or tri windows
- Environmentally Stable, able to withstand temperature variants

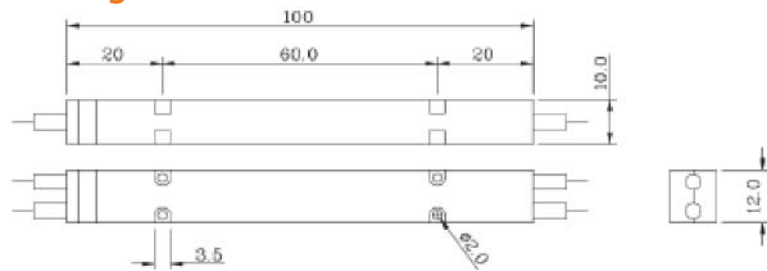
Applications

- Metro - Telecommunication
- Local Area Networks (LAN)
- FTTX
- Fiber Optics Sensing
- Testing Equipment

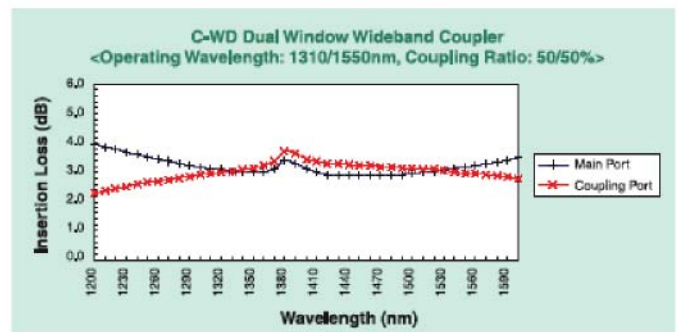
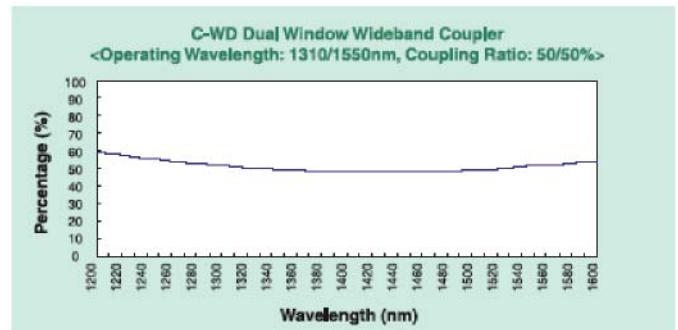
Environmental Compliance

- Telcordia GR-326-CORE
- TIA/EIA-568B.3 Fiber Optic Cabling Components Standard
- IEE802.3z Standards for Fiber Optic Cabling
- RoHS Certified for European market requirements

Package Dimensions



Spectral Performance



Wave2Wave provides business essential infrastructure solutions that enable leading enterprises to unlock and realize the benefits of next generation data center technologies. Our data center product families include environmentally friendly and smart network cabling, modular and cost-efficient data centers, optical wavelength management systems and intelligent network infrastructure management software. Our products and solutions serve enterprise, government, military and service provider customers and markets in their mission critical data center and IT applications.



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