



### Overview:

- Splits a single signal into two outputs
- Supports *3G-SDI*, *HD-SDI*, *SD-SDI* and *ASI* digital video formats
- Supports *AES3i* and *MADI* digital audio formats
- Passive device
- Very high performance and fault-tolerant design
- Ultra compact units in standalone or 1RU rack mount versions

### Application:

- Low cost 1 to 2 distribution amplifier. Multiple units to achieve 2, 4, 6, 8, 10, 12, 14, 16, 18, & 20 Channels.
- Signal split for dual-redundant signal processing architectures
- Simple monitoring split from main signal feed

## WS275B Series Wideband Signal Splitters

### **Description:**

The WS275B series of signal splitters conveniently split a single source into two signals for distribution with minimal loss. Since it is a passive device there is no requirement for power. These high performance devices are also fault tolerant, such that a cable fault or improper termination on one output does not affect the other.

As the units have a wideband capability, they can be used with all digital video and digital audio signals as well as RF. When used with RF signals, they may also be used as a combiner.

The splitters are available in a compact single channel unit, or multiple channels in a 1RU rack unit. The rack unit is available in 6 and 12-channel variants with rear or front only connectors and in 10 and 20-channel versions with front to rear, or rear to front routing.

The WS275B range of splitters support all of the SMPTE digital video and AES digital audio transmission rates and so are compatible with ASI, 3G-SDI, HD-SDI, and SD-SDI along with signals conforming to AES3i and MADI.

### Specification:

Model	WS275B	-01S	-06F	-06R	-10A	-10B	-12F	-12R	-20A	-20B
Channels		1	6	6	10	10	12	12	20	20
Mode		1:2								
Orientation	inputs	N/A	Front	Rear	Front	Rear	Front	Rear	Front	Rear
	outputs	N/A	Front	Rear	Rear	Front	Front	Rear	Rear	Front
Impedance		75Ω ±2%								
Bandwidth		500kHz to 3GHz								
Compatibility		3G-SDI, HD-SDI, SD-SDI, ASI, AES3i, MADI, RF								
Return Loss		<18dB @ 270MHz to 1.5GHz; <15dB @ 3GHz								
Insertion Loss		0.8dB typical								
Total Loss		3.8dB typical								
Amplitude Imbalance		0.25dB maximum								
Phase Imbalance		1.5 degrees typical								
Output Isolation		25dB typical								
Channel Isolation		N/A	better than 85dB							
Size	height	20mm [0.85"]	1RU							
	width	50mm [2"]	19" rack mount							
	depth	30mm [1.2"]	30mm [1.2"]							
Weight		50g [1.7oz]	1.1kg [2.4lb]	1.2kg [2.6lb]	1.25kg [2.8lb]	1.4kg [3lb]				
Environmental		-25 to +55 deg C [32 to 131 deg F], 5%-95% non-condensing EN55103-1, EN55103, EN6095, FCC part 15								

### Ordering Information:

WS275B-01S	1-Ch Passive Splitter, 3Gb/s, Standalone Unit
WS275B-06F	6-Ch Passive Splitter, 3Gb/s, 1RU Rack Unit, Front Connections
WS275B-06R	6-Ch Passive Splitter, 3Gb/s, 1RU Rack Unit, Rear Connections
WS275B-12F	12-Ch Passive Splitter, 3Gb/s, 1RU Rack Unit, Front Connections
WS275B-12R	12-Ch Passive Splitter, 3Gb/s, 1RU Rack Unit, Rear Connections
WS275B-10A	10-Ch Passive Splitter, 3Gb/s, 1RU Rack Unit, Front Inputs, Rear Outputs
WS275B-10B	10-Ch Passive Splitter, 3Gb/s, 1RU Rack Unit, Rear Inputs, Front Outputs
WS275B-20A	20-Ch Passive Splitter, 3Gb/s, 1RU Rack Unit, Front Inputs, Rear Outputs
WS275B-20B	20-Ch Passive Splitter, 3Gb/s, 1RU Rack Unit, Rear Inputs, Front Outputs