

# Toner

**Toner**  
cable equipment, inc.  
www.tonercable.com

## XGVS Series

### DOCSIS 3.1 Compatible 1.2 GHz Digital Vertical Splitters

#### 2, 3 and 4 Way 1.2 GHz Vertical Drop Splitters

##### Features:

- Solder Back
- DOCSIS 3.1 Compatible
- 5 MHz to 1.2 GHz Bandwidth
- 5-85 MHz Upstream
- 105-1220 MHz Downstream
- Minimum 120 dB RFI Shielding
- Low Intermod Distortions < 100 dB
- Nickel Plated Zinc Alloy Housing
- 15 PSI Waterproofed F Ports
- 200 G Center Conductor Retention
- 75 Ohm Impedance
- Machined F Connectors On 1" Spacing
- Blocking Capacitor On All Ports
- Integral Ground Block
- 6 kV Ring Wave Surge Protection



This new series of drop splitters from Toner are designed to work in digital systems deploying DOCSIS 3.1 that utilizes the 5-85 MHz spectrum for upstream, and the 105 to 1220 MHz spectrum for downstream. By using the latest in ferrite core and winding technology along with premium PC boards and components we have been able to increase bandwidth without any sacrifice in performance.

These splitters feature a diecast zinc alloy housing with a nickel plating for superior corrosion resistance. Each F port is machined with 3/8-32 UNEF threads to meet SCTE and ANSI specifications and incorporates a patented seal that is waterproof to 15 PSI. The seizure mechanism for the center conductor is also patented and contacts the center conductor on 4 sides and provides more than 200g of retention force which ensures correct electrical contact. The F ports are on 1" spacing which meets SCTE & ANSI specifications.

All of these splitters feature DC blocking capacitors on all ports for power isolation protection and for induced spikes protection. These splitters feature superior performance, low intermediation distortions and meet or exceed all current industry standards.

**DOCSIS 3.1 Compatible 1.2 GHz Digital Vertical Splitters**

	XGVS-2D31 2-Way	XGVS-3BD31 3-Way Balanced	XGVS-4D31 4-Way	XGVS-6D31 6-Way	XGVS-8D31 8-Way	XGVS-12D31 12-Way
<b>Insertion Loss</b>						
5-85 MHz	3.3	5.2	6.5	9.0	10.5	13.0
85-550 MHz	3.5	5.8	6.8	9.0	11.0	13.5
550-1002 MHz	3.7	6.2	7.7	10.5	11.8	14.5
1002-1200 MHz	4.0	6.5	7.9	11.0	12.2	15.0
<b>Isolation</b>						
5-15 MHz	35	35	35	28	35	30
15-85 MHz	38	38	38	30	35	30
85-300 MHz	35	35	35	30	35	27
300-1002 MHz	30	30	30	26	28	27
1002-1200 MHz	27	27	27	26	26	25
<b>Return Loss</b>						
<b>Input</b>						
5-85 MHz	25	25	24	22	22	22
85-1002 MHz	20	20	20	20	20	20
1002-1200 MHz	20	20	20	18	20	18
<b>Return Loss</b>						
<b>Output</b>						
5-85 MHz	25	25	25	25	25	20
85-1002 MHz	22	22	22	20	22	20
1002-1200 MHz	20	20	20	18	20	18
<b>Intermod Distortion</b>	-60 dBmV					
	-120 dB					

**Ordering Information**

<b>XGVS-2D31</b>	2 Way 1.2 GHz Vertical Splitter
<b>XGVS-3BD31</b>	3 Way Balanced 1.2 GHz Vertical Splitter
<b>XGVS-4D31</b>	4 Way 1.2 GHz Vertical Splitter
<b>XGVS-6D31</b>	6 Way 1.2 GHz Vertical Splitter
<b>XGVS-8D31</b>	8 Way 1.2 GHz Vertical Splitter
<b>XGVS-12D31</b>	12 Way 1.2 GHz Vertical Splitter