

33 SERIES 1.218 GHz SPLITTERS & COUPLERS

[DC/DS33V-x] Cable Products, Mainline Splitters & Couplers

Features

- Supports DOCSIS 3.1 Expanded Bandwidth up to 1218 MHz
- 5-1218 MHz Frequency Range
- Aluminum Alloy Housing Used for Corrosion Resistant
- Neoprene Weather Gasket and RFI Shielding at 120 dB
- Double Polyurethane Coating or Powder Coating for Greater Weather Protection
- 15 A Current Capacity / 15 A (or 20 A) Current Capacity for Power Inserter
- Printed Circuit Board
- Aerial or Pedestal Installation
- Rotational Seizure Mechanism for Aerial or Pedestal Installation
- Compliant with SCTE Guidelines

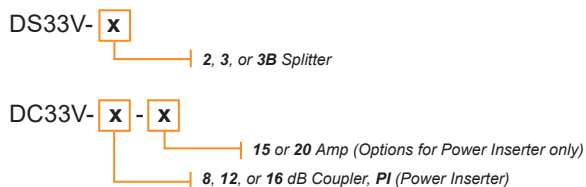


Application

Both a directional coupler (unequal power divider) and splitter (equal power divider) split your network's trunk and feederlines. A line power inserter enables a single cable to service the power and signal requirements of active modules in a broadband telecommunications network by passively combining radio frequency (RF) signals with up to 90 volts alternating current (VAC) from a line power supply.



Ordering Information



Model Number	Standard Carton	Inner Box	Carton Weight	dB Values Available
DS33V-x	30 pcs	10 pcs	20 kgs / 44 lbs	2, 3, or 3B Splitter
DC33V-xx	30 pcs	10 pcs	20 kgs / 44 lbs	8, 12, or 16 dB Coupler, -PI Power Inserter

Customization available upon request

General Specifications

Power Passing:	15 A, 60/90 VAC for Directional Splitters & Directional Couplers 15 A, (20 A Optional) 60/90 VAC for Power Inserter
Surge Withstand:	IEEE C62.41-1991 Category B3/6kV Combination Wave, 3000 A
Waterproof Condition:	1.2kg/cm ² 60 sec
Impedance:	75 Ohms
Connectors:	In/Out 5/8" -24 NEF female

Mainline Splitters - 1.218 GHz**Insertion Loss (dB) Tolerance: ± 0.25**

	DS33V-2	DS33V-3B	DS33V-3	
5-65 MHz	4.6	7.1	4.7	8.5
65-300 MHz	4.6	7.1	4.8	8.9
300-550 MHz	5.1	7.8	5.6	9.9
550-750 MHz	5.5	7.8	5.5	10.4
750-862 MHz	5.5	7.8	5.5	10.4
862-1000 MHz	5.5	7.8	5.5	10.4
1000-1218 MHz	6.0	8.9	6.0	11.0

Output - Output Isolation (dB)

	DS33V-2	DS33V-3B	DS33V-3	
5-65 MHz	24	22	22	
65-860 MHz	20	20	20	
860-1218 MHz	20	18	18	

Return Loss - Input / Output (dB)

	DS33V-2	DS33V-3B	DS33V-3	
10-47 MHz	16	16	16	
47-950 MHz	16	16	16	
950-1218 MHz	16	16	16	

Mainline Couplers - 1.218 GHz**Insertion Loss (dB) Tolerance: ± 0.25**

	DC33V-8	DC33V-12	DC33V-16	DC33V-PI-x
5-65 MHz	2.9	2.1	2.0	1.0
65-300 MHz	2.9	2.1	1.8	0.9
300-550 MHz	3.5	2.9	2.3	0.9
550-750 MHz	3.8	3.5	3.3	0.9
750-862 MHz	3.8	3.5	3.3	0.9
862-1000 MHz	3.8	3.5	3.3	0.9
1000-1218 MHz	4.0	3.8	3.5	1.2

Mainline Couplers - 1.218 GHz (cont.)**Tap Value (dB) Tolerance: ± 1.0 (± 1.5 for 1000-1218MHz)**

	DC33V-8	DC33V-12	DC33V-16	DC33V-PI-x
5-65 MHz	8	12	16	
65-300 MHz	8	12	16	
300-550 MHz	8	12	16	
550-750 MHz	8	12	16	
750-862 MHz	8	12	16	
862-1000 MHz	8	12	16	
1000-1218 MHz	8	12	16	

Output - Tap Isolation (dB)

	DC33V-8	DC33V-12	DC33V-16	DC33V-PI-x
5-65 MHz	24	27	30	60
65-860 MHz	20	21	21	60
860-1218 MHz	19	21	21	57

Return Loss - Input / Output / Tap (dB)

	DC33V-8	DC33V-12	DC33V-16	DC33V-PI-x
10-47 MHz	16	16	16	16
47-950 MHz	16	16	16	16
950-1218 MHz	16	16	16	16

Hum Modulation @ 15 A (dB)

	DS33V-2	DS33V-3B	DS33V-3	DC33V-8	DC33V-12	DC33V-16	DC33V-PI-x
5-10 MHz	≥ -52	≥ -52	≥ -52	≥ -52	≥ -52	≥ -52	≥ -52
10-15 MHz	≥ -55	≥ -55	≥ -55	≥ -55	≥ -55	≥ -55	≥ -55
15-1000 MHz	≥ -60	≥ -60	≥ -60	≥ -60	≥ -60	≥ -60	≥ -60
1000-1218 MHz	≥ -55	≥ -55	≥ -55	≥ -55	≥ -55	≥ -55	≥ -55

Screening Effectiveness (dB)

	DS33V-2	DS33V-3B	DS33V-3	DC33V-8	DC33V-12	DC33V-16	DC33V-PI-x
5-1000 MHz	≥ 95	≥ 95	≥ 95	≥ 95	≥ 95	≥ 95	≥ 95
1000-1218 MHz	≥ 85	≥ 85	≥ 85	≥ 85	≥ 85	≥ 85	≥ 85