

Surge-Gap™ Taps

Two-Way, Four-Way, Eight-Way Standard & Full Profile

Description

The Scientific-Atlanta® Surge-Gap™ Tap product line offers IEEE compliant 6kV Surge Protection for the device, surpassing the industry standard 1kV of protection, and offering significantly improved protection against voltage transients in lightning strike areas and locations with unreliable power networks. The Surge-Gap Tap products are the latest solution for improving the reliability of cable service and expanding the entertainment and information experiences our cable customers can deliver to their subscribers. As more and more new services are rolled out, the ability of these services to generate new revenue is directly related to their availability. This new tap will help keep cable service intact, and boost the cable operator's potential for added revenue.



In addition, the new tap products offer the same make-before-break capabilities of previous S-A tap products, which enables cable technicians to pull the tap's faceplate and perform maintenance without interrupting service to subscribers located downstream. The new Surge-Gap Tap also can pass up to 12 amps of current, which enables operators to access power at locations within the cable system where additional power is needed for services (e.g., telephony).

The Surge-Gap Tap is the latest addition to the Surge-Gap product line aimed at greatly improving surge protection capabilities. Surge-Gap Taps are available in all configurations offered in our Multimedia product family: Standard 2-, 4-, and 8 way products, and Full-Profile Design products. Finally, these Surge-Gap Tap products are also compatible with our Power Distribution Unit (PDU), allowing our customers to quickly and easily upgrade their networks for telephony deployment wherever revenue generating opportunities arise.

Features

- Increased Surge Tolerance - Rugged design enables the new products to continue to operate after surges that would typically damage ordinary products and interrupt service
- Improved Return Loss - improved return loss performance to lessen reflected signals for a "cleaner" signal
- AL360T housing with powder coating for superior environmental protection
- Sealed and swaged extended F-ports for maximum resistance to moisture ingress
- Nickel plated brass F-ports to ensure a corrosion-resistant drop interface
- Component covers for additional protection of faceplate circuitry during maintenance
- Versatile housing design permits aerial, pedestal, or MDU mounting schemes



Surge-Gap Taps -- Two-Way, Four-Way, Eight-Way Standard & Full Profile



Specifications

General Specifications

	Frequency (MHz)	Units	Specification	Notes
Power Passing	-	amps	12	
Tap-Tap Isolation (minimum)	5-50	dB	20	
	51-750	dB	22	
	751-1000	dB	20	
In-Out Return Loss (minimum)	5-1000	dB	18	
Tap Port Return Loss (minimum)	5-1000	dB	17	
Hum Modulation @ 10 amps (typical)	5-450	dBc	70	
	451-750	dBc	65	
	751-1000	dBc	55	
EMI Shielding (minimum)	5-15	dB	85	*
	16-1000	dB	100	

*Note: Tested per ANSI / SCTE 48-2 2003

AC/RF Bypass Switch Performance

	Units	Specification	Notes
System Open Circuit Time	ms	0 ms	
Contact Resistance	mOhms	10 max	
Through current capacity	Amps	12	
Voltage capacity	V AC	90	
RF Frequency Range	MHz	5 to 1000	
Insertion Loss & Return Loss		See Loss Table	
Operating Temperature	°C	-40°C to +60°C	

AC/RF Bypass Switch Insertion Loss & Return Loss Table

AC/RF Bypass	5 MHz	500 MHz	750 MHz	870 MHz	1 GHz
Short Circuited Insertion Loss (dB)	0.02 Max <0.01 Mean	0.6 Max 0.4 Mean	0.8 Max 0.5 Mean	0.7 Max 0.4 Mean	0.7 Max 0.5 Mean
Short Circuited Return Loss (dB)	45 Min 50 Mean	16 Min 16.5 Mean	16 Min 16.5 Mean	18 Min 18.5 Mean	21 Min 22 Mean

Mechanical Specifications

Standard Tap	Units	2-Way/4-Way	Notes
Height	in. (mm)	3.6 (91.44)	
Width	in. (mm)	3.6 (91.44)	
Depth	in. (mm)	3.0 (76.2)	
Full Profile Tap	Units	2-Way/4-Way/8-Way	
Height	in. (mm)	4.25 (107.95)	
Width	in. (mm)	5.25 (133.35)	
Depth	in. (mm)	3.0 (76.2)	
Surge Resistance:			
- Input / Output ports - (combination wave)	kV	6	
- Tap ports (ring wave)	kV	6	
Standards Compliance			
Mechanical	ANSI / SCTE 01 1996 - F-port interface specification SCTE IPS-SP-500 - entry port interface specification		
Emissions	FCC - Part 76, Subpart K EN 50083-2/A1: 1998		
Environmental	ASTM G 53 - weathering specification ASTM B 117 - salt spray specification ASTM D 31 - chip resistance specification EN 60529: 1992 (IP test) Bellcore GR-63-CORE - vibration/transportation ANSI/IEEE C62.41 - lightning		
Electrical Safety	UL Subject 1697 EN 50083-1/A2: 1997 EN 60065: 1998 IEC 60065: 1998		

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Specifications, continued

2-Way Surge Gap Tap – Standard Housing

	Tap Value	4		8		11		14		17		20		23		26		29	
		Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.
Insertion Loss (In-Out) (dB)	Frequency																		
	5	-	-	3.2	2.5	2.0	1.8	1.2	1.0	1.1	0.8	0.8	0.5	0.7	0.4	0.6	0.5	0.6	0.4
	55	-	-	2.5	2.0	1.6	1.2	1.1	0.7	0.9	0.5	0.6	0.4	0.6	0.3	0.6	0.4	0.6	0.3
	550	-	-	3.6	3.3	2.5	2.1	1.7	1.4	1.6	1.1	1.3	0.9	1.2	0.9	1.2	1.0	1.2	0.8
	650	-	-	3.9	3.6	2.6	2.3	1.8	1.6	1.5	1.2	1.3	1.0	1.2	1.0	1.3	1.1	1.3	0.9
	750	-	-	4.1	3.8	2.7	2.5	1.9	1.7	1.6	1.3	1.4	1.1	1.6	1.1	1.4	1.2	1.4	1.0
	870	-	-	4.3	4.0	3.0	2.8	2.3	2.0	1.8	1.5	1.7	1.3	1.5	1.2	1.6	1.3	1.6	1.2
1000	-	-	4.6	4.3	3.6	3.3	2.7	2.4	2.2	1.8	1.9	1.6	1.8	1.6	1.8	1.6	1.8	1.5	

	Tap Value	4	8	11	14	17	20	23	26	29
		Frequency								
Tap Loss Tolerance (± dB)	5	1.0	1.0	1.3	1.3	1.4	1.4	1.3	1.0	1.6
	55	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	550	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.0	1.5
	650	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.0	1.4
	750	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.0	1.1
	870	1.1	1.3	1.0	1.0	1.0	1.2	1.1	1.0	1.0
	1000	1.3	1.7	1.0	1.0	1.4	1.2	1.0	1.5	1.2
Out-Tap Isolation (min.) (dB)	5-50	-	20	18	22	24	32	33	39	39
	51-550	-	26	28	30	32	35	35	41	38
	551-650	-	24	27	28	33	32	34	39	37
	651-750	-	23	28	27	33	29	32	36	36
	751-870	-	23	26	27	33	28	29	34	35
	871-1000	-	24	24	27	28	26	26	32	32

Unless otherwise noted, the above specifications reflect typical station performance at stated reference levels in the recommended operating configuration(s). Specifications are based upon measurements made in accordance with SCTE/ANSI standards (where applicable), using standard frequency assignments.

Surge-Gap Taps -- Two-Way, Four-Way, Eight-Way Standard & Full Profile



Specifications, continued

2-Way Surge Gap Tap – Full Profile Housing

	Tap Value	4		8		11		14		17		20		23		26		29	
		Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.
Insertion Loss (In-Out) (dB)	Frequency																		
	5	-	-	3.2	2.8	2.0	1.7	1.2	1.0	1.1	0.7	0.8	0.5	0.7	0.5	0.6	0.5	0.6	0.3
	55	-	-	2.5	2.2	1.4	1.2	0.9	0.7	0.7	0.5	0.7	0.4	0.6	0.4	0.6	0.4	0.9	0.3
	550	-	-	3.6	3.2	2.5	2.0	1.8	1.5	1.6	1.3	1.4	1.1	1.4	1.1	1.4	1.1	1.3	1.0
	650	-	-	3.6	3.4	2.7	2.2	2.0	1.6	1.6	1.3	1.4	1.1	1.4	1.1	1.5	1.1	1.3	1.1
	750	-	-	4.1	3.5	2.8	2.4	2.1	1.8	1.7	1.4	1.5	1.2	1.5	1.2	1.6	1.2	1.4	1.2
	870	-	-	4.2	3.7	3.2	2.6	2.4	2.1	1.9	1.6	1.7	1.4	1.6	1.3	1.7	1.4	1.6	1.4
1000	-	-	4.5	3.8	3.5	2.9	2.7	2.5	2.2	1.8	2.0	1.6	1.8	1.6	1.9	1.6	1.9	1.7	

	Tap Value	4	8	11	14	17	20	23	26	29
		Frequency								
Tap Loss Tolerance (± dB)	5	1.0	1.0	1.2	1.3	1.3	1.5	1.3	1.0	1.4
	55	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	550	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	650	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	750	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	870	1.0	1.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	1000	1.5	2.1	1.3	1.2	1.1	1.1	1.0	1.0	1.4
Out-Tap Isolation (Min.) (dB)	5-50	-	20	19	22	26	32	31	40	38
	51-550	-	26	27	30	34	35	38	41	41
	551-650	-	23	30	28	37	33	39	39	38
	651-750	-	22	33	26	33	32	38	37	37
	751-870	-	20	27	24	33	30	35	35	35
	871-1000	-	20	24	23	31	27	31	32	33

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Surge-Gap Taps -- Two-Way, Four-Way, Eight-Way Standard & Full Profile



Specifications, continued

4-Way Surge Gap Tap – Standard Housing

	Tap Value	8		11		14		17		20		23		26		29	
		Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.
Insertion Loss (In-Out) (dB)	Frequency																
	5	-	-	3.2	2.7	2.1	1.7	1.4	1.0	0.8	0.6	0.8	0.5	0.7	0.5	0.7	0.5
	55	-	-	2.5	2.2	1.5	1.2	1.2	0.7	0.9	0.5	0.7	0.4	0.6	0.4	0.6	0.4
	550	-	-	3.8	3.4	2.5	2.2	1.9	1.4	1.6	1.1	1.4	1.0	1.2	0.9	1.2	1.0
	650	-	-	4.2	3.8	2.7	2.4	1.9	1.6	1.5	1.2	1.3	1.1	1.3	1.0	1.3	1.1
	750	-	-	4.5	4.0	2.9	2.6	2.1	1.8	1.6	1.3	1.4	1.2	1.3	1.1	1.4	1.2
	870	-	-	4.8	4.2	3.2	3.0	2.3	2.0	1.8	1.5	1.6	1.3	1.5	1.3	1.6	1.4
1000	-	-	5.1	4.5	3.6	3.4	2.7	2.4	2.1	1.9	1.9	1.7	1.9	1.6	1.9	1.7	

	Tap Value	8	11	14	17	20	23	26	29
		Frequency							
Tap Loss Tolerance (± dB)	5	1.3	1.0	1.0	1.3	1.0	1.3	1.4	1.7
	55	1.3	1.2	1.0	1.0	1.0	1.0	1.0	1.0
	550	1.0	1.6	1.0	1.0	1.0	1.0	1.0	1.0
	650	1.0	1.7	1.0	1.0	1.0	1.0	1.0	1.0
	750	1.0	1.8	1.0	1.0	1.0	1.0	1.1	1.1
	870	1.0	2.1	1.0	1.0	1.0	1.0	1.4	1.4
	1000	1.5	2.8	1.3	1.0	1.3	1.5	1.5	1.5
Out-Tap Isolation (Min.) (dB)	5-50	-	22	21	26	38	32	35	38
	51-550	-	30	30	36	35	39	41	45
	551-650	-	28	29	33	33	40	41	43
	651-750	-	28	27	33	33	40	39	43
	751-870	-	27	24	31	33	38	35	43
	871-1000	-	27	22	29	33	34	31	38

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Surge-Gap Taps -- Two-Way, Four-Way, Eight-Way Standard & Full Profile



Specifications, continued

4-Way Surge Gap Tap – Full Profile Housing

	Tap Value	8		11		14		17		20		23		26		29	
		Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.
Insertion Loss (In-Out) (dB)	Frequency																
	5	-	-	3.2	2.8	2.1	1.7	1.4	0.9	1.1	0.7	0.9	0.4	0.7	0.3	0.7	0.3
	55	-	-	2.5	2.2	1.5	1.2	1.2	0.7	0.9	0.6	0.7	0.4	0.5	0.3	0.5	0.3
	550	-	-	3.8	3.4	2.5	2.2	1.9	1.5	1.6	1.3	1.4	1.1	1.2	0.9	1.2	0.9
	650	-	-	4.1	3.7	2.6	2.3	2.0	1.7	1.7	1.4	1.5	1.1	1.3	1.0	1.3	1.0
	750	-	-	4.3	3.9	2.8	2.5	2.1	1.8	1.8	1.5	1.6	1.2	1.4	1.2	1.4	1.1
	870	-	-	4.8	4.3	3.1	2.8	2.4	2.2	2.0	1.7	1.8	1.4	1.6	1.4	1.6	1.3
1000	-	-	5.1	4.7	3.5	3.1	2.7	2.5	2.3	2.1	2.0	1.7	1.9	1.7	1.9	1.6	

	Tap Value	8	11	14	17	20	23	26	29
		Frequency							
Tap Loss Tolerance (± dB)	5	1.3	1.0	1.0	1.0	1.0	1.0	1.5	1.5
	55	1.2	1.3	1.0	1.0	1.0	1.0	1.0	1.0
	550	1.0	1.6	1.0	1.0	1.0	1.0	1.1	1.0
	650	1.0	1.7	1.0	1.0	1.0	1.0	1.1	1.0
	750	1.0	1.8	1.1	1.0	1.0	1.0	1.1	1.0
	870	1.0	2.1	1.4	1.2	1.0	1.4	1.0	1.0
	1000	1.5	2.5	1.7	1.6	1.0	1.3	1.1	1.1
Out-Tap Isolation (Min.) (dB)	5-50	-	22	21	27	28	30	34	37
	51-550	-	25	31	37	33	34	39	43
	551-650	-	23	28	33	39	40	35	43
	651-750	-	22	27	30	37	40	32	38
	751-870	-	22	25	28	33	33	30	34
	871-1000	-	22	24	27	29	29	28	31

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Surge-Gap Taps -- Two-Way, Four-Way, Eight-Way Standard & Full Profile



Specifications, continued

8-Way Surge Gap Tap – Full Profile Housing

	Tap Value	11		14		17		20		23		26		29	
		Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.
Insertion Loss (In-Out) (dB)	Frequency														
	5	-	-	3.5	3.0	2.4	1.4	1.1	0.9	0.9	0.7	0.6	0.4	0.6	0.3
	55	-	-	3.1	2.7	1.9	1.2	1.0	0.7	0.8	0.6	0.6	0.4	0.5	0.3
	550	-	-	4.6	4.0	2.6	2.2	1.9	1.5	1.6	1.3	1.3	1.1	1.3	1.0
	650	-	-	4.7	4.3	2.7	2.4	2.0	1.6	1.6	1.4	1.4	1.2	1.3	1.0
	750	-	-	5.0	4.6	2.9	2.7	2.1	1.8	1.8	1.5	1.5	1.3	1.5	1.2
	870	-	-	5.2	4.9	3.2	3.0	2.4	2.2	2.0	1.7	1.8	1.5	1.7	1.4
1000	-	-	5.5	5.1	3.6	3.4	2.8	2.5	2.3	2.0	2.1	1.8	2.1	1.7	

	Tap Value	11	14	17	20	23	26	29
Tap Loss Tolerance (± dB)	Frequency							
	5	1.0	1.5	1.0	1.0	1.5	1.0	1.7
	55	1.3	1.0	1.2	1.0	1.0	1.1	1.0
	550	1.0	1.7	1.6	1.5	1.3	1.4	1.0
	650	1.0	1.9	1.4	1.3	1.0	1.0	1.0
	750	1.2	2.1	1.5	1.4	1.1	1.0	1.0
	870	1.8	2.4	1.8	1.4	1.1	1.0	1.0
1000	2.4	2.9	2.4	1.8	1.4	1.5	1.5	
Out-Tap Isolation (Min.) (dB)	5-50	-	24	25	31	28	37	42
	51-550	-	30	29	34	32	39	41
	551-650	-	28	28	32	36	36	38
	651-750	-	27	27	30	37	33	35
	751-870	-	26	26	29	40	30	33
	871-1000	-	25	26	28	37	29	32

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Ordering Information

Standard Taps

Description	Part Number
Surge-Gap Tap, 2-way, 4 dB	753370
Surge-Gap Tap, 2-way, 8 dB	753371
Surge-Gap Tap, 2-way, 11 dB	753372
Surge-Gap Tap, 2-way, 14 dB	753373
Surge-Gap Tap, 2-way, 17 dB	753374
Surge-Gap Tap, 2-way, 20 dB	753375
Surge-Gap Tap, 2-way, 23 dB	753376
Surge-Gap Tap, 2-way, 26 dB	753377
Surge-Gap Tap, 2-way, 29 dB	753378
Surge-Gap Tap, 4-way, 8 dB	753379
Surge-Gap Tap, 4-way, 11 dB	753380
Surge-Gap Tap, 4-way, 14 dB	753381
Surge-Gap Tap, 4-way, 17 dB	753382
Surge-Gap Tap, 4-way, 20 dB	753383
Surge-Gap Tap, 4-way, 23 dB	753384
Surge-Gap Tap, 4-way, 26 dB	753385
Surge-Gap Tap, 4-way, 29 dB	753386

Standard Tap - Surge Gap Face Plates

Description	Part Number
Surge-Gap Face Plate, 2-way, 4 dB	753394
Surge-Gap Face Plate, 2-way, 8 dB	753395
Surge-Gap Face Plate, 2-way, 11 dB	753396
Surge-Gap Face Plate, 2-way, 14 dB	753397
Surge-Gap Face Plate, 2-way, 17 dB	753398
Surge-Gap Face Plate, 2-way, 20 dB	753399
Surge-Gap Face Plate, 2-way, 23 dB	753400
Surge-Gap Face Plate, 2-way, 26 dB	753401
Surge-Gap Face Plate, 2-way, 29 dB	753402
Surge-Gap Face Plate, 4-way, 8 dB	753403
Surge-Gap Face Plate, 4-way, 11 dB	753404
Surge-Gap Face Plate, 4-way, 14 dB	753405
Surge-Gap Face Plate, 4-way, 17 dB	753406
Surge-Gap Face Plate, 4-way, 20 dB	753407
Surge-Gap Face Plate, 4-way, 23 dB	753408
Surge-Gap Face Plate, 4-way, 26 dB	753409
Surge-Gap Face Plate, 4-way, 29 dB	753410

Surge-Gap Taps -- Two-Way, Four-Way, Eight-Way Standard & Full Profile



Ordering Information, continued

Full Profile Taps

Description	Part Number
Surge-Gap Tap, 2-way, 4 dB	753418
Surge-Gap Tap, 2-way, 8 dB	753419
Surge-Gap Tap, 2-way, 11 dB	753420
Surge-Gap Tap, 2-way, 14 dB	753421
Surge-Gap Tap, 2-way, 17 dB	753422
Surge-Gap Tap, 2-way, 20 dB	753423
Surge-Gap Tap, 2-way, 23 dB	753424
Surge-Gap Tap, 2-way, 26 dB	753425
Surge-Gap Tap, 2-way, 29 dB	753426
Surge-Gap Tap, 4-way, 8 dB	753427
Surge-Gap Tap, 4-way, 11 dB	753428
Surge-Gap Tap, 4-way, 14 dB	753429
Surge-Gap Tap, 4-way, 17 dB	753430
Surge-Gap Tap, 4-way, 20 dB	753431
Surge-Gap Tap, 4-way, 23 dB	753432
Surge-Gap Tap, 4-way, 26 dB	753433
Surge-Gap Tap, 4-way, 29 dB	753434
Surge-Gap Tap, 8-way, 11 dB	753387
Surge-Gap Tap, 8-way, 14 dB	753388
Surge-Gap Tap, 8-way, 17 dB	753389
Surge-Gap Tap, 8-way, 20 dB	753390
Surge-Gap Tap, 8-way, 23 dB	753391
Surge-Gap Tap, 8-way, 26 dB	753392
Surge-Gap Tap, 8-way, 29 dB	753393

Full Profile Tap – Surge Gap Face Plates

Description	Part Number
Surge-Gap Face Plate, 2-way, 4 dB	753435
Surge-Gap Face Plate, 2-way, 8 dB	753436
Surge-Gap Face Plate, 2-way, 11 dB	753437
Surge-Gap Face Plate, 2-way, 14 dB	753438
Surge-Gap Face Plate, 2-way, 17 dB	753439
Surge-Gap Face Plate, 2-way, 20 dB	753440
Surge-Gap Face Plate, 2-way, 23 dB	753441
Surge-Gap Face Plate, 2-way, 26 dB	753442
Surge-Gap Face Plate, 2-way, 29 dB	753443
Surge-Gap Face Plate, 4-way, 8 dB	753444
Surge-Gap Face Plate, 4-way, 11 dB	753445
Surge-Gap Face Plate, 4-way, 14 dB	753446
Surge-Gap Face Plate, 4-way, 17 dB	753447
Surge-Gap Face Plate, 4-way, 20 dB	753448
Surge-Gap Face Plate, 4-way, 23 dB	753449
Surge-Gap Face Plate, 4-way, 26 dB	753450
Surge-Gap Face Plate, 4-way, 29 dB	753451
Surge-Gap Face Plate, 8-way, 11 dB	753411
Surge-Gap Face Plate, 8-way, 14 dB	753412
Surge-Gap Face Plate, 8-way, 17 dB	753413
Surge-Gap Face Plate, 8-way, 20 dB	753414
Surge-Gap Face Plate, 8-way, 23 dB	753415
Surge-Gap Face Plate, 8-way, 26 dB	753416
Surge-Gap Face Plate, 8-way, 29 dB	753417



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