Signal Vision® Subscriber Drop Products NAR Catalog



NORTH AMERICA

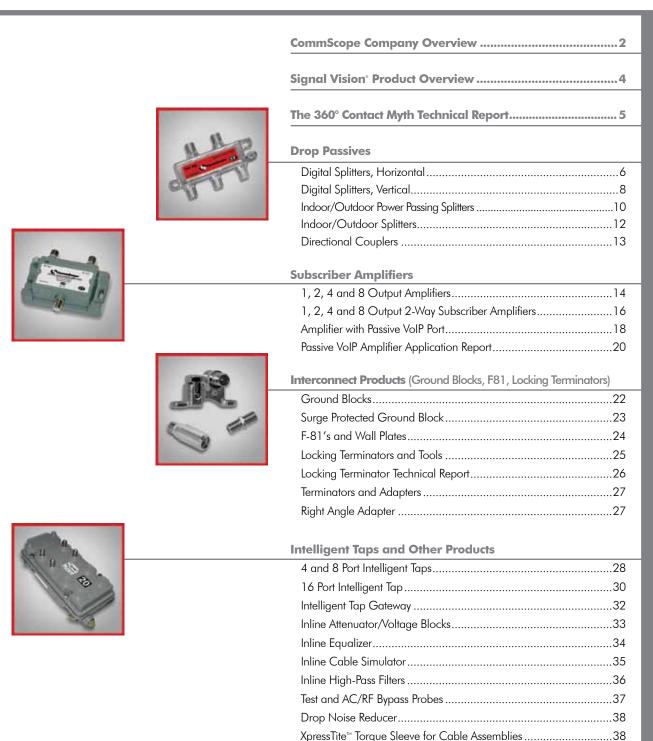




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We Thank You...

for your interest in CommScope* Signal Vision* products. You are the reason we are a world leader in broadband products. Our catalog includes the products which you request most often. However, if you do not see the product that you need listed in this catalog, contact the sales representative in your area or contact our Customer Service Department.





Our Strategy Is Simple - Quality Products At Competitive Prices Delivered With Attentive, Personal Service

Advanced coax connections. Blazing fiber pipes. Reliable subscriber drop products. No wonder more broadband operators count on CommScope for quality HFC products than any other supplier. They share a common belief that when you make us your supplier you get a suite of services and products offered by only one company—the industry's

technology leader – CommScope. We bridge the gap between yesterday's

analog systems and next generation digital networks with products engineered specifically for each access point within a Hybrid Fiber Coax (HFC) topology.

Known for Exceptional Customer Service

CommScope is a solid business partner with an impressive service track record. Our professional account teams are aligned to respond quickly and efficiently. Our vast network of trained sales associates and distributors embody experience and professionalism combined with a commitment to finding the right solution for every customer.

Research & Development

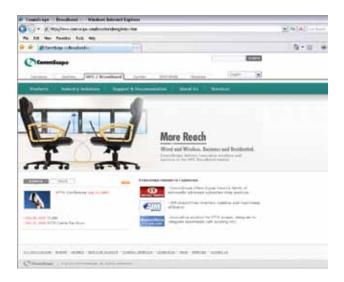
CommScope is dedicated to innovation. Our engineers participate in industry standards groups and critical committees. Bringing to market the most comprehensive choice of quality solutions remains a primary focus. Our products meet the requirements of existing electronics, yet empower service providers like you to push the limits of services offered by means of scalable architecture and optimal throughput.

Unparalleled Quality and Innovation

With over 1,300 patents, we offer thousands of cable, conduit, components and connectivity options. With more than 30 years experience, every product features details manufactured to exacting standards. Only high quality materials and products manufactured within tight tolerances are worthy of bearing the CommScope name. Production operations located on 5 continents produce high performance solutions selling into more than 130 countries.

Experienced Technical Staff

Our customer commitment extends to strong field and lab support coupled with installation training materials offered in both English and Spanish. Tap into CommScope's deep knowledge base and support provided at no additional cost. You will also find a wide array of technical documents, white papers and software online at www.commscope.com



Strong Industry Involvement

CommScope has long been a supporter of broadband industry trade associations. We exhibit in many industry-tradeshows which demonstrates our commitment to educating our customer base and bring to market new product enhancements and solutions that complement our core product portfolio.



○ Cable Transport® –

The Cable Industry's Truck Fleet

CommScope efficiently and affordably delivers or moves inventory with impressive on-time delivery performance and reliable 24-hour disaster recovery response.



Key Customer Service Contact Numbers

Toll Free Telephone Number	er1-800-982-1708
Telephone	828-324-2200
Domestic Fax	828-328-3400
International Fax	828-323-4989
Email	.custserv@commscope.com



replenishment tool adds value and helps manage inventory more effectively. A customized solution, which is easy to implement, AIM improves inventory turns and reduces costs through the use of simple bar-coding technology. This unique program further enhances CommScope's reputation for offering the highest standards of customer service.



Please Note: The products mentioned within this catalog are by no means comprehensive. To request more information on any CommScope product or service, please contact your sales representative or call CommScope's Customer Service Center at 1-800-982-1708.



Signal Vision[®] Product Overview



Premium Subscriber Drop Products

CommScope proudly offers Signal Vision's family of technically advanced subscriber amplifiers, splitters, direction couplers, intelligent taps, grounding products and locking terminators.

Signal Vision products are a natural complement to our core cable and conduit products as well as BrightPath® products. This portfolio honors CommScope's ongoing commitment to superior HFC performance and reliability. Signal Vision's high quality products are engineered to SCTE standards and are backed by a 5-year warranty and a 30-year history of reliability. A generous stocking program ensures immediate delivery of most products.

Subscriber Amplifiers –Including NEW VoIP Amplifier

- Excellent performance and reliability with ultra lownoise signal amplification and 6kV surge protection
- Space saving miniature package
- Unique positive tilt compensates for higher attenuation at higher frequencies
- Patent pending VoIP bypass amplifier preserves lifeline telephony service in the event of power failure

 Amplifiers are available in 1, 2, 4 and 8-port configurations



🔈 Intelligent Taps –

A New Approach, A Better Solution

- Execute services immediately without generating a truck roll
- Select filtering options to manage reverse path noise

Compatible with industry standard billing systems

Telephone filter for 911 service

• Favorable payback



O Interconnect Products -

Locking Terminators, Ground Blocks and F-81s

- Nickel plated brass locking terminator with 35 dB return loss, compatible with GTT-type tools
- Industry-leading F-81s and ground blocks with unique, patented ground clamp



Drop Passives – Superior Performance to 1 GHz

- Innovative four-sided center conductor contact provides superior retention and electrical performance
- Flat-end ports for proper ground plane match
 - Better than 120 dB RFI
 - Two layers of protection against corrosion

Inline Products -

Equalizers, Cable Simulataors and Attenuators

- Inline body constructed from brass with bright tin plating
- Innovative four-sided center conductor contact provides superior retention and electrical performance



Flat-end ports for proper ground plane match





The idea and concept of a 360° contact is appealing, but is not feasible in the cable telecommunications world where feed-thru 75Ω connectors are utilized.

The first problem to overcome is the size variations of center conductors.

 Between series 59 coaxial cable and series 6 coaxial cable, center conductor sizes could vary from .031" to .042". Providing even contact pressure becomes extremely challenging when this size variation is involved in fitting a round tube-type contact over a round center conductor.

Add to this the effect of cutting the center conductor, which can be solid copper or copper clad steel.

This cutting always destroys the conical end (see photo).
 The two outcroppings on each side become the contact points within the round contact. This also diminishes the electrical performance of the contact.

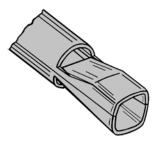


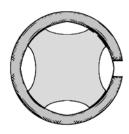


(Effects on center conductor when cut by a pair of diagonals)

Tests have shown two things:

- A conical contact when tested using a machined mating contact showed a Return Loss of 31 dB. The same contact when using first type 6 cable then F59 cable showed results ranging from 23 to 28 dB.
- 2. The pullout (contact pressure) changes dramatically when series 6 coaxial cable is followed by a series 59 coaxial cable center conductor. The change seen in testing can be as much as 50%. While many manufacturers claim to use conical contacts (360°), with closer inspection what is usually found to be true is that on the inside of the round contact is a spring that is used to vary conductor size. These springs vary in design for 2 to 4 points or dimples in the contact wall to wave springs offering less contact and more impedance transfer than necessary (see example drawing).





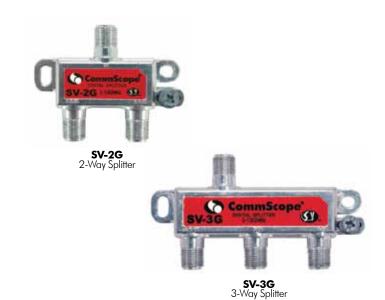
It is recommended that when offered a 360° contact, the utilization of a good, high-powered magnifying glass and a Return Loss test using field-prepped center conductors will yield a true picture of how the product actually functions, and the electrical parameters that will be available in field use.

Signal Vision® 1 GHz Digital Splitters, Horizontal



- Innovative four-sided center conductor contact provides superior retention and electrical performance
- Utilizes surface mount technology
- 6kV ring wave surge protection on all ports
- Intermod protected
- 40 dB port-to-port isolation in the return band
- Flat-end "F" ports for proper ground plane match
- Better than 120 dB RFI protection
- Moisture sealed housing (15psi) with three layers of protection against corrosion
- Solder sealed proprietary backplate
- No casting lines on ports
- Also available in vertical, power passing, mini and wall mount versions

Ordering Informat	ion
SV-2G	Splitter, 2-Way
SV-3G	Splitter, 3-Way
SV-3BG	Splitter, 3-Way Balanced
SV-4G	Splitter, 4-Way
SV-8G	Splitter, 8-Way
SV-2GAPD	Splitter, 2-Way, All Ports Down





SV-3BG 3-Way Balanced Splitter











Universal Specifications	
Bandwidth	5-1002 MHz
Operating Temperature Range	-40° F to $+140^{\circ}$ F (-40° C to $+60^{\circ}$ C)
Frequency Response	\pm 0.3 dB (8-way: \pm 0.4 dB)
RFI	120 dB min.
Surge Protection	IEEE Category A3 (6000V, 200Amp, Ring Wave)
Spurious Signals and 2nd Order Harmonics	<-60 dBmV

Product Line Specifications					
	SV-2G SV-2GAPD	SV-3G	SV-3BG	SV-4G	SV-8G
Insertion Loss (maximum)					
5-450 MHz	3.5 dB	3.5/7.0 dB	5.4 dB	6.9 dB	10.5 dB
450-1002 MHz	3.9 dB	3.9/7.8 dB	6.1 dB	7.8 dB	11.5 dB
Return Loss (minimum)					
5-45 MHz	25 dB	25 dB	25 dB	25 dB	25 dB
50-1002 MHz	22 dB	22 dB	22 dB	22 dB	22 dB
Isolation (minimum)					
15-45 MHz	40 dB	40 dB	40 dB	40 dB	35 dB
50-300 MHz	35 dB	35 dB	35 dB	35 dB	30 dB
300-1002 MHz	30 dB	30 dB	30 dB	30 dB	30 dB

Signal Vision® 1 GHz Digital Splitters, Vertical



- Innovative four-sided center conductor contact provides superior retention and electrical performance
- Utilizes surface mount technology
- 6kV ring wave surge protection on all ports
- Intermod protected
- 40 dB port-to-port isolation in the return band
- Flat-end "F" ports for proper ground plane match
- Better than 120 dB RFI protection
- Moisture sealed housing (15psi) with three layers of protection against corrosion
- Solder sealed proprietary backplate
- No casting lines on ports
- Also available in horizontal, power passing, mini and wall mount versions

Ordering Information	on
SV-V2G	Vertical Splitter, 2-Way
SV-V3G	Vertical Splitter, 3-Way
SV-V4G	Vertical Splitter, 4-Way
SV-V6G	Vertical Splitter, 6-Way



SV-V2G 2-Way Splitter



SV-V3G 3-Way Splitter



SV-V4G 4-Way Splitter



SV-V6G 6-Way Splitter





Universal Specifications	
Bandwidth	5-1002 MHz
Operating Temperature Range	-40° F to $+140^{\circ}$ F (-40° C to $+60^{\circ}$ C)
Frequency Response	±0.3 dB
RFI	120 dB minimum
Surge Protection	IEEE Category A3 (6000V, 200Amp, Ring Wave)
Spurious Signals and 2nd Order Harmonics	<-60 dBmV

Product Line Specifications				
	SV-V2G	SV-V3G	SV-V4G	SV-V6G
Insertion Loss (maximum)				
5-550 MHz (1 port)	3.6 dB	3.6/7.2 dB	7.2 dB	8.9 dB
550-1002 MHz (1 port)	4.0 dB	4.0/8.0 dB	8.0 dB	9.3 dB
Return Loss (minimum)				
5-45 MHz	22 dB	22 dB	22 dB	22 dB
50-1002 MHz	22 dB	22 dB	22 dB	22 dB
Isolation* (minimum)				
15-45 MHz	40 dB	40 dB	40 dB	35 dB
50-300 MHz	35 dB	35 dB	35 dB	30 dB
300-1002 MHz	30 dB	30 dB	30 dB	30 dB

^{*}Utility Isolation - All ports meet same specifications



Signal Vision® 1 GHz Indoor/Outdoor Power Passing Splitters CommScope®



- Innovative four-sided center conductor contact provides superior retention and electrical performance
- Utilizes surface mount technology
- Capacitor protected ports
- Intermod protected
- 40 dB port-to-port isolation in the return band
- Flat-end "F" ports for proper ground plane match
- Better than 120 dB RFI protection
- Moisture sealed housing (15psi) with three layers of protection against corrosion
- Solder sealed proprietary backplate
- No casting lines on ports

Ordering Information	
SV-2GPA	Power Passing Splitter, 2-Way
SV-3GPA	Power Passing Splitter, 3-Way
SV-4GPA	Power Passing Splitter, 4-Way



SV-2GPA 2-Way Power Passing Splitter



SV-3GPA 3-Way Power Passing Splitter



SV-4GPA 4-Way Power Passing Splitter



Signal Vision[®] 1 GHz Indoor/Outdoor Power Passing Splitters CommScope[®]



Universal Specifications	
Bandwidth	5-1002 MHz
Operating Temperature Range	-40° F to $+140^{\circ}$ F (-40° C to $+60^{\circ}$ C)
Frequency Response	±0.3 dB
RFI	120 dB minimum
Spurious Signals and 2nd Order Harmonics	<-60 dBmV

Product Line Specification	s					
	SV-2GPA		SV-3GPA		SV-4GPA	
	Non-Powered	Powered	Non-Powered	Powered	Non-Powered	Powered
Insertion Loss (maximum)						
5-550 MHz (1 port)	3.6 dB	3.7 dB	_	3.7 dB	6.9 dB	7.1 dB
550-1002 MHz (1 port)	3.9 dB	4.1.dB	_	4.1 dB	7.8 dB	8.2 dB
5-550 MHz (2 ports)	_	_	7.0 dB	_	_	_
550-1002 MHz (2 ports)	_	_	7.9 dB	_	_	_
Return Loss (minimum)						
5-45 MHz	25	dB	25	dB	25	dB
50-1002 MHz	22 dB		22 dB		22 dB	
Isolation* (minimum)						
15-45 MHz	5 MHz 40		40 dB		40 dB	
50-300 MHz	50-300 MHz 35 dB		35	dB	35	dB
300-1002 MHz	30 dB		30 dB		30 dB	

^{*}Utility Isolation - All ports meet same specifications

Signal Vision® 1 GHz Indoor/Outdoor Splitters



- Innovative four-sided center conductor contact provides superior retention and electrical performance
- Utilizes surface mount technology
- 6kV ring wave surge protection on all ports
- Intermod protected
- 40 dB port-to-port isolation in the return band
- Flat-end "F" ports for proper ground plane match
- Better than 120 dB RFI protection
- Moisture sealed housing (15psi) with three layers of protection against corrosion
- Solder sealed proprietary backplate
- No casting lines on ports
- Also available in horizontal, vertical and power passing, versions

Ordering Information	
SV-2MG	Splitter, 2-Way, Mini
SV-2WG	Splitter, 2-Way, Wall-Mount

Universal Specifications			
Bandwidth	5-1002 MHz		
Insertion Loss (maximum)			
5-450 MHz	3.5 dB		
450-1002 MHz	3.9 dB		
Frequency Response	±0.3 dB		
Return Loss (minimum)			
5-45 MHz	25 dB		
50-1002 MHz	22 dB		
Isolation*			
15-45 MHz 35 dB minimu			
50-750 MHz	30 dB minimum		
750-1002 MHz	25 dB minimum		
RFI	120 dB minimum		
Spurious Signals and 2nd Order Harmonics	<-60 dBmV		

^{*}Utility Isolation - All ports meet same specifications



SV-2MG Two Way Mini Splitter



SV-2WG Two Way Wall-Mount Splitter



- Innovative four-sided center conductor contact provides superior retention and electrical performance
- Utilizes surface mount technology
- 6kV ring wave surge protection on all ports
- Intermod protected
- Flat-end "F" ports for proper ground plane match
- Better than 120 dB RFI protection
- Moisture sealed housing (15psi) with three layers of protection against corrosion
- Solder sealed proprietary backplate
- No casting lines on ports



SV-DCxxG T-Type Directional Coupler

Ordering Information		
SV-DCxxG	Horizontal Directional Coupler	
SV-DCWxxG	Vertical Directional Coupler	

xx represents dB value

Options include 6, 9, 12, 16, 20, 23, 26 dB values for SV-DCxxG

Options include 6, 9, 12, 16, 20, 23 26, 30 dB values for SV-DCWxxG

Options also include 4 dB value, use part number SV-2MG for T-Type Directional Coupler and SV-2WG for Wall-Mount Directional Coupler for ordering

5-1002 MHz
-40° F to $+140^{\circ}$ F (-40° C to $+60^{\circ}$ C)
22 dB minimum
120 dB minimum
IEEE Category A3 (6000V, 200Amp, Ring Wave)
<-60 dBmV



SV-DCWxxGWall-Mount Directional Coupler

Product Line Specifications									
	4 dB	6 dB	9 dB	12 dB	16 dB	20 dB	23 dB	26 dB	*30 dB
Insertion Loss (maximum)	3.9 dB	2.5 dB	2.2 dB	1.2 dB	1.0 dB	1.0 dB	.85 dB	.85 dB	.85 dB
Isolation (minimum)									
15-40 MHz	35 dB	35 dB	35 dB	35 dB	40 dB	40 dB	40 dB	40 dB	40 dB
50-300 MHz	30 dB	30 dB	30 dB	35 dB	35 dB	35 dB	35 dB	35 dB	35 dB
300-1002 MHz	25 dB	28 dB	30 dB	28 dB	30 dB	30 dB	30 dB	30 dB	30 dB
Tap Response	±0.3 dB	±0.75 dB	±1.0 dB	±1.0 dB	±1.0 dB				

^{**}Options also include 4 dB value, use part number SV-2MG for T-Type Directional Coupler and SV-2WG for Wall-Mount Directional Coupler for ordering

^{***}Only for SV-DCW 30 dB

Signal Vision[®] Subscriber Amplifiers



- Available in 42/53 (NTSC) mid split
- 6 kV protection (IEEE C-62-41-B3 on input, A3 on output)
- Flat-end brass "F" ports with four-sided center conductor contact
- Unique positive tilt compensates for greater attenuation at higher frequencies
- LED Power Indicator
- Aluminum die-cast Nano housing with three layers of plating protection
- Aluminum die-cast housing with baked enamel finish
- Neoprene moisture and mesh RFI gasket
- Space saving miniature package
- All amps can be powered through a designated output port with optional power inserter
- Available with 1, 2, 4 and 8 Outputs

Ordering Informo	ution
SVA-10PRS*	Subscriber Amp, 10 dB, Forward Gain, 1-Output
SVA-15PRSN*	Subscriber Amp, 15 dB, Forward Gain, Nano, 1-Output
SVA-15PRSMS*	Subscriber Amp, 15 dB, Forward Gain, Mini, All Ports Down, 1-Output
SVA-152PRSM*	Subscriber Amp, 15 dB Forward Gain, Mini, 2-Output
SVA-104PRS*	Subscriber Amp, 10 dB, Forward Gain, 4-Output
SVA-154PRS*	Subscriber Amp, 15 dB, Forward Gain, 4-Output
SVA-158PRS*	Subscriber Amp, 15 dB, Forward Gain, 8-Output
SVA-10RPFS*	Subscriber Amp, 10 dB, Reverse Gain, 1-Output
SV-PI	Power Inserter

*Add "I" to include Power Inserter



SVA-15PRSN 1-Port Nano Subscriber Amplifier



SVA-15PRSMS 1-Port Mini Subscriber Amplifier



SVA-152PRSM 2-Port Mini Subscriber Amplifier



SVA-154PRS 4-Port Subscriber Amplifier





SVA-10RPFS1-Port Reverse Subscriber Amplifier



SVA-158PRS 8-Port Subscriber Amplifier



Bandwidth	NTSC 5-42 MHz Reverse, 53-1002 MHz Forward
Operating Temperature Range	-40° F to +140° F (-40° C to +60° C)
RFI	100 dB minimum
Surge Protection	IEEE C-62-41-B3 on input, A3 on outputs
Response Flatness	Forward: ± 0.75 dB Reverse: ± 0.5 dB
Distortion Performance	77 analog, 124 digital - 256 QAM ch. loading C/N: 70 dB minimum CSO: -65 dB mininum CTB: -80 dB minimum X-Mod: -75 dB minimum
Hum Modulation	-75 dB minimum
Group Delay	20 nSec maximum @ ch. 2 (3.58 MHz span) 5 nSec maximum @ ch. 4-6 (3.58 MHz span)
Isolation	Power/RF Out: 60 dB minimum (5-1002 MHz) Out/Out: 25 dB minimum (5-1002 MHz)
Powering Requirements	12 VDC/200 mA 18 VDC/300 mA
AC/DC Power Supply	UL certified, surge protected

Product Line Specifications							
	SVA-10PRS	SVA-15PRSN SVA-15PRSMS	SVA-152PRSM	SVA-104PRS	SVA-154PRS	SVA-158PRS	SVA-10RPFS
Number of Ports	1	1	2	4	4	8	1
Gain							
Forward	10 dB	15 dB	11 dB	2 dB	7 dB	3 dB	N/A
Reverse	N/A	N/A	N/A	N/A	N/A	N/A	10 dB
Forward Path Insertion Loss (max)	N/A	N/A	N/A	N/A	N/A	N/A	1.5dB
Return Path Insertion Loss (max)	1.2 dB	1.2 dB	4.5 dB	8 dB	8 dB	11.5 dB	N/A
Return Loss							
Forward	20 dB	22 dB	22 dB	20 dB	22 dB	22 dB	22 dB
Reverse	20 dB	21 dB	21 dB	20 dB	21 dB	21 dB	22 dB
Noise Figure (maximum at 1 GHz)	3.5 dB	3.5 dB	4.5 dB	5.0 dB	5.0 dB	5.0 dB	6.0 dB

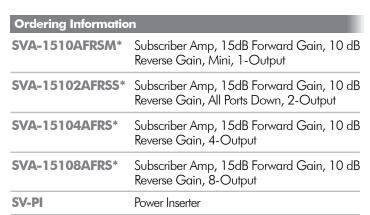
SV-PI Drop Power Inserter Specifications		
Frequency Range	5-1002 MHz	
Port-to-Port Isolation	25 dB minimum	
Insertion Loss	0.5 dB maximum	
Return Loss	20 dB minimum	
Voltage Pass	8-18 VDC	

Signal Vision® 2-Way Subscriber Amplifiers



Features

- 15 dB forward and 10 dB reverse gain
- Available in 42/53 (NTSC) mid split
- 6 kV protection (IEEE C-62-41-B3 on input, A3 on output)
- Flat-end brass "F" ports with four-sided center conductor contact
- Unique positive tilt compensates for greater attenuation at higher frequencies
- LED Power Indicator
- Aluminum die-cast housing with baked enamel finish
- Neoprene moisture and mesh RFI gasket
- Space saving miniature package
- All amps can be powered through a designated output port with optional power inserter
- Available with 1, 2, 4 and 8 Outputs



*Add "I" to include Power Inserter



SVA-15108AFRSSubscriber Amplifier



SVA-1510AFRSM Subscriber Amplifier



SVA-15102AFRSSSubscriber Amplifier



SVA-15104AFRSSubscriber Amplifier





Universal Specifications		
Universal Specifications Bandwidth	NTSC	
	NTSC 5-42 MHz Reverse, 53-1002 MHz Forward	
Operating Temperature Range	-40° F to $+140^{\circ}$ F (-40° C to $+60^{\circ}$ C)	
RFI	100 dB minimum	
Surge Protection	IEEE C-62-41-B3 on input, A3 on outputs	
Response Flatness	Forward: ± 0.75 dB Reverse: ± 0.5 dB	
Return Loss	Forward 20 dB minimum Reverse 20 dB minimum	
Distortion Performance	77 analog, 124 digital - 256 QAM ch. loading C/N: 70 dB minimum CSO: -62 dB minimum CTB: -75 dB minimum X-Mod: -73 dB minimum	
Hum Modulation	-75 dB minimum	
Group Delay	20 nSec maximum @ ch. 2 (3.58 MHz span) 5 nSec maximum @ ch. 4-6 (3.58 MHz span)	
Isolation	Power/RF Out: 55 dB minimum (5-1002 MHz) Out/Out: 25 dB minimum (5-1002 MHz)	
Powering Requirements	15 VDC/300 mA	
AC/DC Power Supply	UL certified, surge protected	

Product Specifications				
	SVA-1510AFRSM	SVA-15102AFRSS	SVA-15104AFRS	SVA-15108AFRS
Number of Ports	1	2	4	8
Gain				
Forward	15 dB	11 dB	7 dB	3 dB
Reverse	10 dB	6 dB	4 dB	0 dB
Noise Figure (maximum) measured at amplifier	4.5 dB (52-1002 MHz)	4.5 dB (52-1002 MHz)	5.0 dB (52-1002 MHz)	5.0 dB (52-1002 MHz)
output	10.5 dB (5-42 MHz)	13.5 dB (5-42 MHz)	16.5 dB (5-42 MHz)	22.5 dB (5-42 MHz)



Signal Vision® Subscriber Amplifiers with Passive VolP Port



Features

- Non-interruptible Passive VoIP port preserves lifeline telephony service in the event of a power failure
- Available in 42/53 (NTSC) mid splits
- 6 kV protection (IEEE C-62-41-B3 on input, A3 on output)
- Flat-end brass "F" ports with four-sided center conductor contact
- LED Power Indicator
- Aluminum die-cast housing with baked enamel finish
- Neoprene moisture and mesh RFI gasket
- All amps can be powered through a designated output port with optional power inserter
- Available with 2, 4 and 8 Outputs
- ISO Certified Production Facility

Ordering Information	
SVA-152PRSVPM	Passive VoIP Amplifier, 15dB Forward Gain, Mini 2-Output
SVA-154PRSVPM	Passive VoIP Amplifier, 15dB Forward Gain, Mini 4-Output
SVA-15158AFRSVP	Passive VoIP Amplifier, 15dB Forward Gain,15dB Reverse Gain, 8-Output

^{*}Add "I" to include Power Inserter



2-Port Mini Subscriber Amplifier with Passive VoIP Port



4-Port Mini Subscriber Amplifier with Passive VoIP Port



For more information, call Customer Service at 800.982.1708 or 828.324.2200 • Fax 828.328.3400 • www.commscope.com



SVA-15158AFRSVP 8-Port Subscriber Amplifier with Passive VoIP Port





Universal Specifications			
Bandwidth	NTSC 5-42 MHz Reverse, 53-1002 MHz Forward		
Operating Temperature Range	-40° F to $+140^{\circ}$ F (-40° C to $+60^{\circ}$ C)		
RFI	100 dB Minimum		
Surge Protection	IEEE C-62-41-B3 on input, A3 on outputs		
Response Flatness	Forward ± 1.0 dB Reverse ± 1.0 dB		
Return Loss	Forward 22 dB minimum Reverse 25 dB minimum VoIP Port 20 dB minimum		
Distortion Performance	77 analog, 124 digital - 256 QAM ch. loading C/N: 70 dB minimum CSO: -65 dB minimum CTB: -75 dB minimum X-Mod: -75 dB minimum		
Hum Modulation	-75 dB min.		
Group Delay	20 nSec max @ Ch. 2 (3.58 MHz span) 5 nSec max @ Ch. 4-6+ (3.58 MHz span)		
Isolation	Power / RF Out 60 dB min (5-1002 MHz) Out / Out 22 dB min (53-1002 MHz) 25 dB min (5-42 MHz)		
Powering Requirements	12 VDC / 200 mA (2/4 out) 15 VDC / 400 mA (8 out)		
AC/DC Power Supply	UL Certified, Surge Protected		

Product Line Specifications			
S	VA-152PRSVPM	SVA-154PRSVPM	SVA-15158AFRSVP
Number of Video Ports	1	3	7
Number of VoIP Bypass Ports	1	1	1
Gain (Video Ports)			
Forward	10 dB	5 dB	1 dB
Return Path Insertion Loss, Video Ports (maximum)	5 dB	12.5 dB	2 dB
Forward / Return Path Insertion Loss VolP Port (maximum)	4 dB	4 dB	4 dB
Noise Figure (device noise contribution)	5.5 dB Max @1002 MHz 2 output 5.5 dB Max @1002 MHz 4 output 5.5 dB Max @1002 MHz 8 output		

Signal Vision® Passive VoIP Amplifier Application Report



In a traditional cable television plant, when a subscriber's home power went down the home's television sets also went down, making it of little consequence if the home's cable service remained operational. However, in today's high bandwidth multiple services environment, this has changed. Cable systems have evolved from a video only service to today's video, voice and data services. Most cable systems have launched or are in the process of launching telephone service over their networks using Voice Over Internet Protocol (VOIP), which is a particular concern. The addition of VOIP telephone service brings with it the added responsibility of providing customers with 911 lifeline service 24 hours a day, even during power outages.

To insure that telephone service remains operational during power outages, cable customers with VOIP telephone service are provided with stand-by power for their cable modems. However, for this to work properly there can be no active devices in the coaxial cable line between the tap and the modem. As long as the tap-to-modem line remains passive, free of active devices, the power backup for the modem will insure that the home's telephone service remains operational during power outages. However, should an active device, such as a drop amplifier, be placed inline between the tap and the modem, then, as the home's power fails so does the device and along with it the home's telephone service.

Why then would anyone place an AC activated device inline between the tap and the modem with telephone service present? The reality is that there are some homes that necessitate the installation of a drop amplifier in order to boost the signal entering the home sufficiently for the homes' multiple devices and distant outlets. In these homes some method of preventing telephone service interruption due to power outages must be provided.

A great deal of thought has been given to this problem and attempts have been made to "fix" it, but as can be seen the "fix" has problems of its own.

Decause it was the amplifier that caused the failure of the telephone service, it was thought that the simplest way to "fix" it would be to split off the telephony leg before it went through the amplifier, (as shown in Figure 1) thereby making it immune to amplifier failure during a power outage. However, when the power is interrupted and the amplifier shuts down, it simulates an open condition at the splitter output port attached to the amplifier. This has the same effect as having one leg of the splitter un-terminated which reduces the return loss of the splitter to approximately 7 dB. The same is true when directional couplers are used.

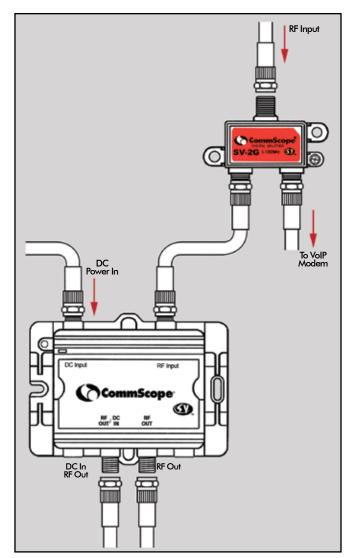


Figure 1 - The "Fix"

Signal Vision® Passive VolP Amplifier Application Report



The solution is to install a Signal Vision Passive VOIP Amplifier (as shown in Figure 2) replacing the standard drop amplifier with its loss of telephone service during power outages. Installation of a Signal Vision Passive VOIP Amplifier solves both the return loss and improves the noise problems associated with the "fix". This simple solution utilizes power held switches within the amplifier that terminate the amplifier circuit should a power failure occur thus maintaining a passive path between the tap and the modem for the home's telephone service. The installation of a Passive VOIP Amplifier also eliminates the extra jumpers, unnecessary connectors, clutter, and potential installation mistakes of the "fix".

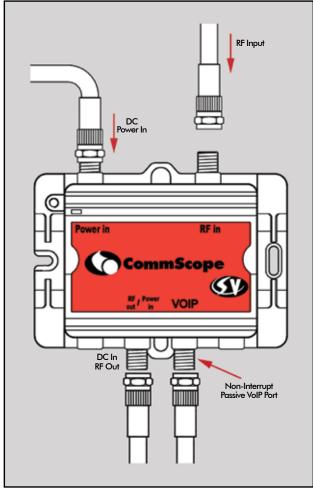


Figure 2 - The Solution



- Pressure forged from brass with nickel plating. Brass is a material recommended by the N.E.C. that is galvanically compatible to interface with ground wire (copper) and "F" connectors (brass)
- Superior one-piece design integrates premium barrel splice with body
- Unique split bolt type ground (bond) clamp, which seizes without damaging the ground wire
- Increased ground surface contact of greater than .500"
- Patented 4-sided, diamond shaped contact that has 250 grams of pressure that can accommodate all types of cable from F59 through F7 without damaging the center conductor
- Improved ground plane with flat "F" port interface surfaces
- Sealing surfaces accommodate "F" boots, sealing rings and shrink tubing
- Return Loss specification 35 dB minimum
- c-UL-us approved
- Also available in dual configuration

Electrical Specifications	
Bandwidth	DC-1002 MHz
Return Loss	35 dB minimum
Insertion Loss	0.2 dB maximum
Ingress Shielding	120 dB



SV-GB-1G 1 GHz Ground Block



SV-GB-1GD 1 GHz Dual Ground Block



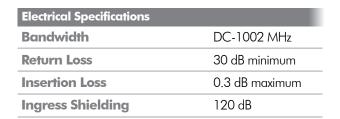
SV-GB-1GA 1 GHz Ground Block (2 Piece Design)







- Pressure forged from brass with nickel plating. Brass is a material recommended by the N.E.C. that is galvanically compatible to interface with ground wire (copper) and "F" connectors (brass)
- Unique split bolt type ground (bond) clamp, which seizes without damaging the ground wire
- Increased ground surface contact of greater than .500"
- Patented multi-sided radial contact with 250 grams of pressure that can accommodate all types of cable from F59 through F7 without damaging the center conductor
- Meets IEEE C62-41-B3 combination wave surge protection
- Certified to meet ANSI/SCTE 81 specifications
- Ground plane with flat "F" port interface surfaces
- c-UL-us Approved



Surge Suppression Specification	ons
Current Suppression	3000 amps.
Voltage Resistance	6000 volts
Insulation Resistance	>100 megohms
Operating Temperature	-40°F to +150°F



1 GHz Surge Protected Ground Block





Signal Vision® 1 GHz Barrel Splices and Wall Plates



Features

- Constructed from solid brass with nickel plating. This
 combination provides the optimum interface between male
 and female "F" type fittings
- Patented 4-sided, diamond shaped contact that has 250 grams of pressure that can accommodate all types of cable from F59 through F7 without damaging the center conductor
- Ground plane with flat "F" port interface surfaces
- Sealing surfaces to accommodate "F" boots, sealing rings and shrink tubing
- Enhanced return loss specification of 35 dB
- Available pre-installed in a wall plate or with nut and washer

Electrical Specifications				
Bandwidth	DC -1002 MHz			
Return Loss	35 dB minimum			
Insertion Loss	0.02 dB maximum			
Ingress Shielding	120 dB			
Length	SV-F81-GA	1.11"		
	SV-F81-GAC	1.04"		



SV-F81-GABarrel Splice
(for use with boots or ring seals)



SV-F81-GAC Barrel Splice







SV-WPWH (white)



SV-WPI-F81GA (ivory)



SV-WPW-F81GA (white)

Wall Plates

- Single port wall plate with or without F-81 splice barrel attached
- Single gang, flush mount
- High impact ABS plastic
- Available in ivory or white





- · Constructed from solid brass with nickel plating
- Secure capacitor added to handle any AC/DC currents that might be in the circuit (model SV-LT)
- Enhanced return loss specification of 35 dB minimum due to the use of high carbon film resisters and a tuned cylinder
- Improved, ground is hard soldered, which eliminates the loss of ground plane (ingress) and common path distortion problems
- Simple to use, installed with SV-GTT type tool

Electrical Specifications	
Bandwidth	5-1002 MHz
Return Loss	35 dB minimum
Contact Pin Size	0.032" + 002"



SV-PL 1 GHz Port Lock

Features

• Same features as the SV-LT without capacitor or resistor



SV-LT 1 GHz Locking Terminator



SV-LTA1 GHz Locking Terminator

Features

- Space saving, new compact size
- Same features as the SV-LT without the capacitor

Tools

- Use with all Signal Vision locking terminators
- Features solid spring steel ears
- Available in 4" (SV-GTT4) and 6" (SV-GTT7-1)
- Durable, long lasting, and easy to use





Signal Vision® 1 GHz Locking Terminator Technical Report



- The vast majority of locking terminators manufactured prior to 1994 had the same problems. The ground used was a constant tension spring, which was typically manufactured using a material not galvanically matched to the device to which it was grounded. With the presence of an electrolyte and a power source, these springs would become isolated which caused two problems:
 - The contact area of the ground would be breached by loss of spring tension or constant vibration causing the resistor lead to become a receive/transmit antenna, which would allow the device to become an ingress/ egress potential
 - 2. The contact area of the ground-spring created a non-linear junction, formed by two dissimilar metal conductors that do not make intimate metal-to-metal contact. This would result in a layer of oxide or corrosion between the two contacts. This corrosion forms a mixing diode and creates a beat product on 6 MHz centers on the forward plant Common Path Distortion (CPD).

In 1990, Signal Vision designed a family of products specifically addressing these two problems. First, we chose brass as our base metal to eliminate dissimilar metal problems within the tap port interface. Second, we used high carbon film resistors and a tuned cylinder to enhance the return loss of this product. We raised the Return Loss specification from an industry average of 16 dB to a minimum of 30 dB. Third, we added a capacitor to handle any AC/DC currents that might be in the circuit, and hard soldered the ground, which eliminated both the loss of ground plane, or ingress, and CPD problems.



Why Use Locking Terminators?

- 1. Security of service and protection against theft.
- 2. All products are manufactured to be either terminated or under load when the Radio Frequency (RF) parameters are designed. An electrical device left with an unterminated port will have an internal electrical mismatch (Return Loss). This mismatch will reduce Return Loss by as much as 75% depending on the design of the components, and isolation characteristics.
- 3. Response flatness of the through line will vary depending on the isolation limits of the individual circuits, i.e., an 11 dB 4-port tap will vary from 2 to 4 dB peak-to-valley when unused ports are left open.
- 4. Tap Port Flatness (Drop Response) If tap ports are left un-terminated on low value taps, the individual drop will have a degraded response (peak-tovalley), i.e., an 11 dB tap without terminators will have a 2 dB peak-to-valley on drop response vs. .07 dB if unused ports are terminated.
- 5. Ingress/Egress

Although difficult to determine via testing, common engineering theory says that all metals expand and contract and that all springs change with age and conditions. If this axiom is true, an un-terminated "F"-port will eventually become an RF leakage problem.

Signal Vision® 1 GHz Terminators, Adapters and Connectors



1 GHz Chassis Adapter

Features

- Constructed from anodized aluminum body
- Brass contact pin (bright tin plated)
- Patented 4-sided, diamond shaped contact that has 250 grams of pressure that can accommodate all types of cable from RG-59 through Type 7 without damaging the center conductor

Electrical Specifications	
Bandwidth	DC - 1002 MHz
Return Loss	20 dB minimum



1 GHz 'F' Port Terminator

Features

- · Constructed from brass with bright tin plating
- High quality carbon film resistor
- Completely sealed construction to prevent leakage

Electrical Specifications		
Bandwidth	5-1002 MHz	
Return Loss	35 dB minimum	
RFI	100 dB minimum	
Impedance	75 ohms	
Center Pin	.030″	



SV-F59TG

1 GHz Right Angle Adapter

Features

- Constructed from brass with bright tin plating
- Patented 4-sided, diamond shaped contact that has 250 grams of pressure that can accommodate all types of cable from RG-59 through Type 7 without damaging the center conductor
- .030 contact pin
- Right angle female to male fittings

Electrical Specifications	
Bandwidth	DC - 1002 MHz
Return Loss	30 dB minimum
Insertion Loss	0.5 dB maximum



RoHS

Specifications subject to change without notice





Stop driving your costs up when the answer is just a click away

Signal Vision's advanced Intelligent Tap allows operators to service customers instantaneously. No more expensive truck rolls, frustrating ingress troubleshooting or lost revenue. Tiering options allow minimum noise funneling in the return path and help manage potential ingress in 2-way systems, all at the click of a button. Reversible plug-in directional couplers allow flexibility in your system designs, and minimize inventory costs.

Features

 The intelligent addressable solution Remote:

> RF on/off High pass filtering (ingress control) Reverse window filtering (ingress control in systems with STB)

- Telephony capable power passing "F" ports
- Non-interruptible design
- Compatible with industry standard billing systems
- Extended 9" housing for cost effective installations/upgrades (No need for extension connectors)
- Flexible and upgradeable design
- Reversible plug-in directional couplers
- Full 1 GHz performance



Versatile Intelligent Tap System-4 Port

Available Mode	els
SV-4ADT	4-Port Basic Intelligent Tap
SV-8ADT	8-Port Basic Intelligent Tap
SV-4ADT-F	4-Port Intelligent Tap with Return Filter
SV-8ADT-F	8-Port Intelligent Tap with Return Filter
SV-4ADT-T	4-Port Intelligent Tap with Telephony Faceplate
SV-8ADT-T	8-Port Intelligent Tap with Telephony Faceplate
SV-4ADT-FT	4-Port Intelligent Tap with Telephony Faceplate and Return Filter
SV-8ADT-FT	8-Port Intelligent Tap with Telephony Faceplate and Return Filter



Specifications

4-W Insertion Loss Table

Tap Value	40 MHz	750 MHz	860 MHz	1002MHz	Plug-In DC Value
11 dB	-	_	_	_	0 dB
14 dB	3.2	4.9	5.2	5.4	4 dB
17 dB	2.3	3.2	3.6	3.9	7 dB
20 dB	1.5	2.4	2.6	2.8	10 dB
23 dB	1.1	2.0	2.2	2.4	13 dB
26 dB	1.0	1.7	1.9	2.2	16 dB

8-W Insertion Loss Table

Tap Value	40 MHz	750 MHz	860 MHz	1002MHz	Plug-In DC Value
14 dB	-	-	-	-	0 dB
17 dB	3.2	4.9	5.2	5.4	4 dB
20 dB	2.3	3.2	3.6	3.9	7 dB
23 dB	1.5	2.3	2.4	2.6	10 dB
26 dB	1.1	2.0	2.0	2.3	13 dB
29 dB	1.0	1.7	1.9	2.2	16 dB

Optional Return Filter Performance

Tiering Mode	Frequency	Tap Port Loss Addition (dB)	Note	
Pass Thru*	5-1002	2.7		
	5-42	40	42/51 split	
High Pass*	51-54	2.4	Others available	
	54-1002	2.6	on request	
Reverse Window*	5-12	30		
	15-18	5.0	15-18/51 split	
	21-42	30	Others available	
	51-54	2.4	on request	
	54-1002	2.6		
OFF*	5-1002	50 minimum		

^{*}All losses shown in this table are in addition to the standard Tap Port losses based on DC Value

Operating Temperature	-40° F to $+140^{\circ}$ F (-40° C to $+60^{\circ}$ C)
Current Passing	15 amps, 40-90 VAC (In-Out) 350 mA (tap ports) maximum (limited)
Surge Protection	
In/Out Ports	IEEE C62.41-1991, category B3 6 kV
Tap Ports	IEEE C62.41-1991, category A3 6 kV
Through HUM Modulation	70 dB (average)@10A 65 dB (average)@12A 60 dB (average)@15A
Mechanical Dimensions:	9x4.72x3.62 (inches)

Communications	FSK 19.2kbps, 102.2 MHz crystal controlled (Custom frequency available on request) (200kHZ wide)
Power Consumption	24 mA @60 VAC
	29 mA @90 VAC

Electrical Specific	cations	
Return Loss	In-Out	20 dB minimum
Return Loss	Tap Port	20 dB minimum
Isolation	Port to Port	25 dB minimum
Isolation	Out to Port	10 dB + tap value, 30 dB maximum (11 dB tap = 21 dB) @ 1 GHz



- The intelligent addressable solution Remote RF on/off Remote high pass filtering (ingress control)
- 16 port compact design
- Non-interruptible design
- Reversible plug-in directional couplers
- Full 1 GHz performance
- Optional DC powering available
- Standard coaxial connections
- Weather and EMI sealed housing
- Compatible with industry standard billing systems

Available Models	
SV-16ADT	16-Port Basic Intelligent Tap
SV-16ADT-F	16-Port Intelligent Tap with Return Filter



SV-16ADTVersatile Addressable Tap System-16 Port



Specifications

16-W Insertion Loss Table

Tap Value	40 MHz	750 MHz	860 MHz	1002MHz	Plug-In DC Value
23dB	_	_	_	_	0 dB
26 dB	3.2	4.9	5.2	5.4	4 dB
29 dB	2.3	3.2	3.6	3.9	7 dB

Optional Return Filter Performance

Tiering Mode	Frequency	Tap Port Loss Addition (dB)
Pass Thru*	5-1002	2.7
High Pass*	5-42	40
High Pass*	51-54	2.4
	54-1002	2.6
OFF*	5-1002	50 minimum

^{*}All losses shown in this table are in addition to the standard Tap Port losses based on DC Value

Operating Temperature	-40° F to +140° F (-40° C to +60° C)
Current Passing	15 amps, 40-90 VAC (In-Out) 350 mA (tap ports) maximum (limited)
Surge Protection	
In/Out Ports	IEEE C62.41-1991, category B3 6 kV
Tap Ports	IEEE C62.41-1991, category A3 6 kV
Through HUM Modulation	70 dB (average)@10A 65 dB (average)@12A 60 dB (average)@15A
Mechanical Dimensions	9x4.72x3.62 (inches)

Communications	FSK 19.2kbps, 102.2 MHz crystal controlled (Custom frequency available on request) (200kHZ wide)
Power Consumption	18 mA @60 VAC
	22 mA @90 VAC

Electrical Specifications		
Return Loss	In-Out	18 dB minimum
Return Loss	Tap Port	18 dB minimum
Isolation	Port to Port	25 dB minimum
Isolation	Out to Port	10 dB + tap value, 30 dB maximum (11 dB tap = 21 dB) @ 1 GHz



The SV-ADTGC headend gateway transmits customer service or network technical service commands via a customer specific FSK modulated channel directly to the tap through your broadband plant. The headend gateway controller is connected to the billing system through CommScope's customizable management software package. This software integrates seamlessly with industry-standard billing systems and manages the taps and other filtered services. A network server or PC connects to the gateway by either an Ethernet port or a serial RS-232 connection.



SV-ADTGC Intelligent Tap Gateway

- FSK transmitter in 1RU package
- Adjustable level
- Output test point
- Very cost effective

Parameter	Specifications	Notes
Operating Temperature Range	32° F to +120° F (0° C to +50° C)	
FSK TX Frequency	102.2 MHz crystal controlled (Custom frequency available on request)	
Output Level	40-51 dBmV	Un-modulated
Adjustment range	11 dB	
Frequency Accuracy	+/- 10 kHz	
FSK Frequency Deviation	+/- 67 kHz	
Spectral Bandwidth	400 kHz (+/-200kHz) @-100dBc/Hz	
Communications Settings	RS-232 Ethernet	9600-8-N-1 IP
RF Test Point	-20dB +/- 1dB	
AC Power In	120VAC, 230VAC 50/60Hz	
Dimensions	19x17x1.7 (inches)	
Order Model Number	Frequency	
SV-ADTGC-	Customer Specified	

Signal Vision[®] Inline Attenuator/Voltage Blocking Coupler



Inline Attenuators

Features

- Inline body constructed from solid brass with bright tin plating
- Patented 4-sided, diamond shaped contact that has 250 grams of pressure that can accommodate all types of cable from F59 through F7 without damaging the center conductor
- Metal glaze type resistors ensure attenuation accuracy within 5%
- One-piece design
- Contact pin O.D, 0.032" ± .002"
- Female to male fittings
- Available in 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16 & 20 dB attenuations

Electrical Specifications	
Bandwidth	DC-1002 MHz
Return Loss In	25 dB minimum
Return Loss Out	25 dB minimum
Insertion Loss	Value ± 0.5 dB max



SV-FAMInline Attenuators

Voltage Blocking Coupler

- Blocks AC and DC currents (AC to 90V)
- Inline body constructed from solid brass with bright tin plating
- Patented 4-sided, diamond shaped contact that has 250 grams of pressure that can accommodate all types of cable from F59 through F7 without damaging the center conductor
- One-piece design
- Contact pin O.D., $0.032'' \pm .002''$ contact pin
- Female to male fittings

Electrical Specifications	
Bandwidth	5-1002 MHz
Return Loss	30 dB minimum
Insertion Loss	0.5 dB maximum



SV-VBC-90Voltage Blocking Coupler



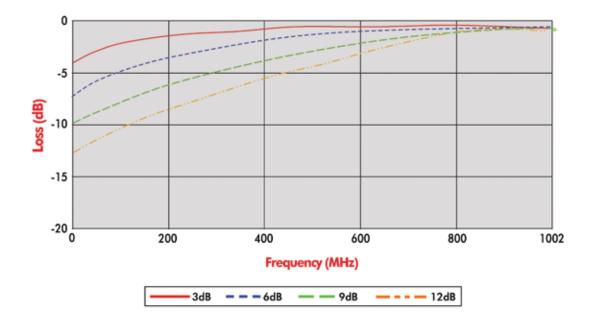


- Inline body constructed from solid brass with bright tin plating
- Patented 4-sided, diamond shaped contact that has 250 grams of pressure that can accommodate all types of cable from F59 through F7 without damaging the center conductor
- Improved ground plane with flat "F" port interface surfaces
- Designed with sealing surfaces to better accommodate "F" boots, sealing rings and shrink tubing
- Contact pin O.D., 0.032" ± .002"
- IEEE C-62.41 A3 surge compliant
- Available in 3, 6, 9, 12 dB

Electrical Specifications	
Bandwidth	DC - 1002 MHz
Return Loss	22 dB minimum
Insertion Loss	
@1002 MHz	0.6 dB maximum
Power Passing	600 mA AC
Hum Modulation	-60 dB minimum



SV-EQ-* Inline Equalizer





Specifications subject to change without notice

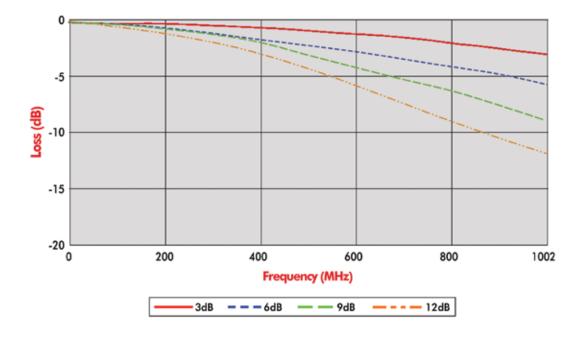


- Inline body constructed from solid brass with bright tin plating
- Patented 4-sided, diamond shaped contact that has 250 grams of pressure that can accommodate all types of cable from RG-59 through Type 7 without damaging the center conductor
- Improved ground plane with flat 'F' port interface surfaces
- Designed with sealing surfaces to better accommodate 'F' boots, sealing rings and shrink tubing
- Contact pin O.D., 0.032" ± .002"
- Available in 3, 6, 9, and 12 dB

Electrical Specifications	
Bandwidth	DC - 1002 MHz
Return Loss	22 dB minimum
Insertion Loss	
@1002 MHz	0.25 dB maximum
Power Passing	1 Amp AC



SV-CS-*Inline Cable Simulator

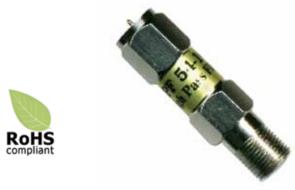






- Inline body constructed from solid brass with bright tin plating
- Patented 4-sided, diamond shaped contact that has 250 grams of pressure that can accommodate all types of cable from RG-59 through Type 7 without damaging the center conductor
- Improved ground plane with flat 'F' port interface surfaces
- Designed with sealing surfaces to better accommodate 'F' boots, sealing rings and shrink tubing
- Superior return loss specification to 22 dB minimum
- Contact pin O.D., 0.032" ± .002"

Electrical Specificatio	ons
Bandwidth	52-1002 MHz
Return Loss	
52-1002 MHz	22 dB minimum
Rejection	
5-42 MHz	40.0 dB minimum (Typical > 45 dB)
Insertion Loss	
52-55 MHz	2.0 dB maximum
56-750 MHz	1.5 dB maximum
750-1002 MHz	0,8 dB maximum



SV-HPF High-Pass Filter

1 GHz Two-Way High-Pass Filter

- Innovative four-sided center conductor contact provides superior retention and electrical performance
- Utilizes surface mount technology
- 6kV ring wave surge protection on all ports
- Intermod protected
- 40 dB port-to-port isolation in the return band
- Flat-end "F" ports for proper ground plane match
- Better than 120 dB RFI protection
- Moisture sealed housing (15psi) with two layers of protection against corrosion
- Solder sealed proprietary backplate
- No casting lines on ports

Electrical Specifications		
	Cable Port 5-1002 MHz	HPF Port 54-1002 MHz
Insertion Loss (maximum)		
5-1002 MHz	4.0 dB	NA
5-45 MHz	NA	40.0 dB
54-1002 MHz	NA	5.0 dB
Return Loss (minimum)		
5-40 MHz	22 dB	22 dB
40-54 MHz	18 dB	18 dB
54-1002 MHz	22 dB	22 dB
Isolation (minimum)		
5-450 MHz	40 dB	40 dB
450-1002 MHz	35 dB	35 dB



SV2HPF Two-Way High-Pass Filter



1 GHz 20dB Test Probes

Features

- Constructed from solid brass with nickel plating
- Spring loaded, Teflon protected tip Ensures accurate and safe measurements
- Fits 5/8" entry ports
- AC blocked optional

Ordering Information		
SV-05	20dB Test Probe, AC/DC Blocked	
SV-05AC	20dB Test Probe, AC/DC Passing	

Electrical Specifications	
Bandwidth	5-1002 MHz
Insertion Loss	20 dB (+ 1 dB)
Return Loss	18 dB minimum
Shield Effectiveness	-100 dB minimum

1 GHz AC/RF Bypass Probe

Features

- · Constructed from solid brass with nickel plating
- Spring loaded, Teflon protected tip Ensures accurate and safe measurements
- Fits 5/8" entry ports
- Passes AC/RF

Electrical Specifications	
Bandwidth	DC - 1002 MHz
Insertion Loss	1.2 dB maximum
Return Loss	18 dB minimum
A.C. Thru Resistance	Minimal
A.C. Current Capacity	7 amps @ 90VAC for 15 min.
Shield Effectiveness	-100 dB min.
Hum Modulation	-65 dB @ 5 MHz, 6 amps.

Also Available in a Kit for Tap Bypass Applications

Electrical Specifications	
Bandwidth	DC - 1002 MHz
Insertion Loss	2.5 dB maximum
Return Loss	18 dB minimum
A.C. Thru Resistance	Minimal
A.C. Current Capacity	7 amps @ 90VAC for 15 min.
Shield Effectiveness	-100 dB min.
Hum Modulation	-65 dB @ 5 MHz, 6 amps.







Specifications subject to change without notice



The New Weapon Against Return Path Noise

Ferrite drop noise reducers have been used in the electrical, computer, aeronautical, radio, television and electromagnetic compliance industries for years. The CATV industry uses this technology in the design of many RF circuits to help control ingress.

The SV-DNR-1 simply clips onto the drop cable at the subscriber location between the ground block and tap. The ferrite material absorbs and converts RF energy on the coaxial cable's sheath into heat and dissipates this heat into the surrounding air. Removing this RF energy from the coaxial cable sheath helps prevent these unwanted signals from getting into the CATV plant and ultimately contaminating the return path with noise.

Now you can use this proven technology to reduce the return path noise accumulated from your subscriber's homes.



SV-DNR-1Drop Noise Reducer

Features

- Does not interfere with video or data signals
- Convenient installation with easy-to-close snaps
- Housing made of UV stabilized nylon
- Core provides constant dissipation of collected energy
- Consistent performance
- Cost effective

Electrical Specifications	
Frequency Range	5 - 100 MHz
Sheath Current Attenuation	4-7 dB Typical
Imepdance	60-90 Ohms
Physical Dimensions	1.5" x .75"
Fits Cable Sizes	.240" to .285" Outer Dia.



INEW:XpressTite[™] Torque Sleeve for Cable Assemblies

- Offers users the ability to properly tighten connectors in hard to reach places
- Prevents over tightening and damaging the port on expensive customer premise equipment
- Offers superior tightening in comparison to hand tightening
- Prevents loose connections which result in RF ingress and poor picture quality
- Freely moves to each end of the cable allowing the user to utilize a single torque sleeve at both the port and the wall location
- XpressTite is designed to not fall off cable assemblies during shipping





