



# RF connectivity

Quick reference guide

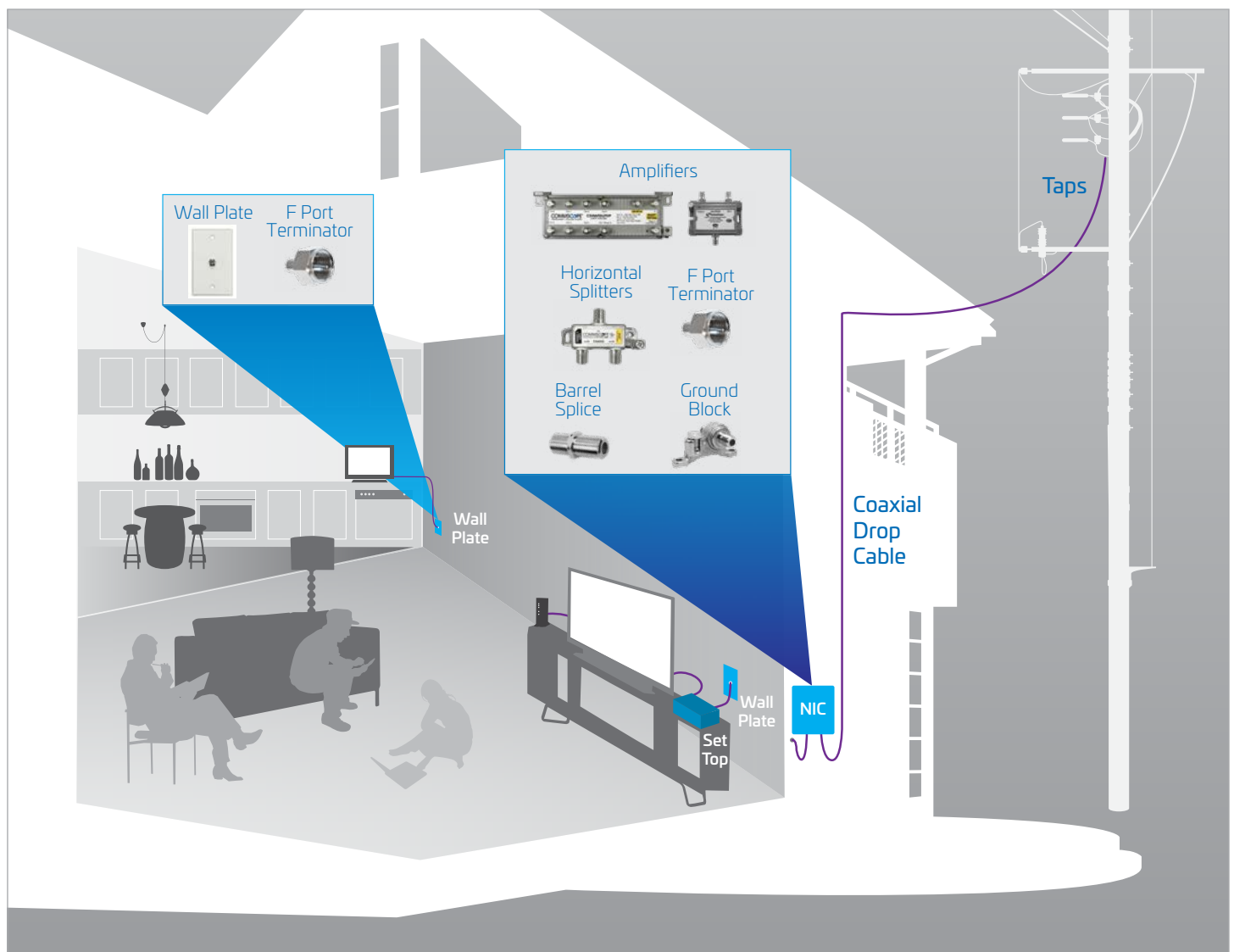
COMMScope®

# Trusted RF connectivity solutions to maximize cable subscribers satisfaction

At the edge of your hybrid fiber coaxial (HFC) network, RF connectivity components ensure the connection to your subscriber.

At Commscope, with more than 40 years of experience serving cable operators, we understand that the satisfaction of subscribers depend on the performance and reliability of our connectivity solutions.

With millions of products already enabling the always-on networks of tomorrow, we continue to innovate new and better ways to power your network's future.



# Coaxial amplifiers and components

## Application

Boost the signal — not the noise or distortion

When you need to distribute a clear signal to multiple locations within a single structure.

## Key characteristics

Offering a broad range of subscriber drop amplifiers with a variety of gain options in both the forward and return bands, including Unity Gain. Various housing styles and port configurations to meet any installation requirements. Passive VoIP lifeline and MoCA optimized designs are also available.

- Meet or exceed all SCTE requirements
- Excellent performance and reliability with ultra-low noise signal amplification
- Housings manufactured of either aluminum with power coat or Zinc with Nickel plating
- Innovative positive tilt compensates for greater attenuation at higher frequencies
- 6 kV surge protection
- Diamond shaped four-sided center conductor contact provides excellent retention, electrical performance and maximum surface contact on center conductors from 0.025-0.042 inches (based on SCTE 01-2006)

## Amplifiers

CSZAPDU9VP



CSMAPDU9VP



SVA15PRSM



## Ordering Information

MID	Description
CSAPDU5VPI	SUB AMP, APD, UNITY FWD REV, PVOIP, PI, 5-OUT
CSAPDU9VPI	SUB AMP, APD, UNITY FWD REV, PVOIP, PI, 9-OUT
CSF1APDU9VPI	SUB AMP, APD, UNITY F/R, PVP, PI, 9 (5-85MHz)
CSZAPDU9VP	Passive VoIP Amplifier, unity forward/reverse 1.2GHz/nine ports
CSMAPDU5VPI	SUB AMP, MOCA APD, UNITY F/R, PVOIP, PI, 5-P
CSMAPDU9VPI	SUB AMP, MOCA APD, UNITY F/R,PVOIP, PI, 9-P
SVA10RPFS	SUB AMP, 10dB REV, MINI, 1-OUT
SVA1510AFRSM	SUB AMP, 15dB FWD, 10dB REV, MINI, 1-OUT
SVA154PRS	SUB AMP, 15dB FWD, 4-OUT
SVA15PRSM	SUB AMP, 15dB FWD, MINI, 1-OUT
SVA15PRSMI	SUB AMP, 15dB FWD, MINI, PI, 1-OUT
SVA15PRSMS	SUB AMP, 15dB FWD, MINI, APD, 1-OUT
SVA15PRSN	SUB AMP, 15dB FWD, NANO, 1-OUT
SVA15PRSNi	SUB AMP, 15dB FWD, NANO, PI, 1-OUT
CSAPAE612V500	Power Adaptor for Subscriber Amplifier ac/dc 12V 500mA, EISA VI
SVAPA15V300	AC/DC 15V, 300MA, PWR ADAP, FWD/REV SUB AMP
CSAPAE415V500	AC/DC 15V, 500MA, EISA 4, Power Adapter
CSHMPIE	Power Inserter for Subscriber Amplifiers with High Isolation

# Passive gateway

## Application

The Home Connect® Passive Gateway is one convenient device with two distinct capabilities. It separates the Access RF network from the Home MoCA® with fewer network access points, noise in the upstream is minimized.

This device provides dedicated MoCA only home network ports operating from 1275-1675MHz. There also three access network ports for connecting devices such as gateways/modems and other devices.

## Key characteristics

- "Engineered to provide maximum RF and MoCA performance"
- Diamond shaped four-sided center conductor contact provides excellent retention, electrical performance and maximum surface contact on center conductors from 0.025-0.042 inches (based on SCTE 01-2006)
- The zinc die cast body has a soldered back for superior RF shielding
  - The raised body allows moisture to drain behind the unit and uses a priority plating for use in harsh environments
- Color coded labeling clearly identifies both the access network and MoCA ports
- Blue insulator identifies RF input port
- Dual mount housing for easy install
- QR code for easy access to instructions and video

## Passive Gateway

CSPM7G0



CSPM11G0



## Ordering Information

MID	Description
CSPM7G0	Passive Gateway - 7 output ports, 3RF/MoCA and 4 dedicated MoCA ports
CSPM11G0	Passive Gateway - 11 output ports, 3RF/MoCA and 8 dedicated MoCA ports

CSM70POE-1G



## Ordering Information

MID	Description
CSM70POE-1G	MoCA Point of entry filter / 70dB isolation

# Splitters and directional couplers

## Application

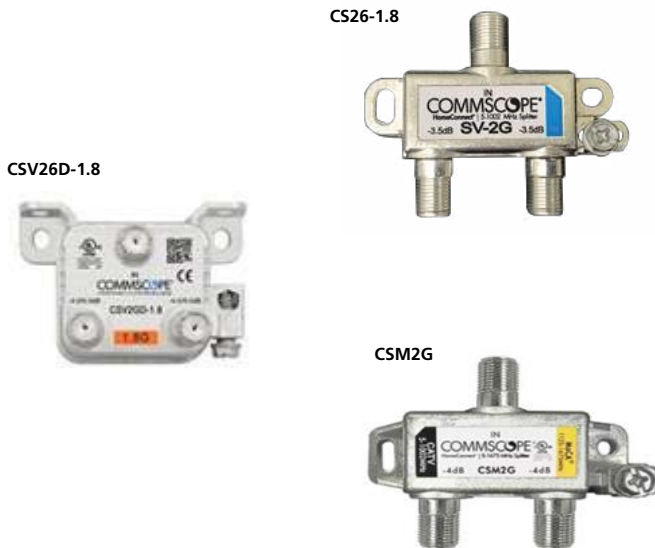
CommScope offers a number of reliable passive devices for your RF networks. Our coaxial splitters and couplers, are manufactured to the highest standards to ensure that active components in the network function efficiently and effectively.

We pay special attention to soldering, sealing, and the use of non-ferric-based designs to prevent network interference such as passive intermodulation.

## Key characteristics

- Diamond shaped four-sided center conductor contact provides excellent retention, electrical performance and maximum surface contact on center conductors from 0.025-0.042 inches (based on SCTE 01-2006)
- Soldered back plate for maximum RF shielding
- 120dB RFI shielding
- Zinc housing with proprietary plating for protection against corrosion
- No casting lines on F ports
- Machined flat end F ports with smooth sealing surface for seal rings
- 6kV ring wave surge protection on all ports

## Splitters and Couplers



## Ordering Information

MID	Description
<b>1GHz Horizontal Splitters</b>	
SV2G	SPLITTER, 2-WAY, 1GHz
SV2GP	SPLITTER, 2-WAY, AC PWR PASS LEG, 1GHz
SV2MG	SPLITTER, 2-WAY, MINI (T-TYPE), 1GHz
SV2WG	SPLITTER, 2-WAY, WALL-MOUNT, 1GHz
SV3BG	SPLITTER, 3-WAY, BALANCED, 1GHz
SV3G	SPLITTER, 3-WAY, 1GHz
SV3GP	SPLITTER, 3-WAY, AC PWR PASS LEG, 1GHz
SV4G	SPLITTER, 4-WAY, 1GHz
SV4GP	SPLITTER, 4-WAY, AC PWR PASS LEG, 1GHz
SV8G	SPLITTER, 8-WAY, 1GHz

## Ordering Information

MID	Description
<b>1.2GHz Vertical Dual Mount Splitters</b>	
CSV2GD-1.2	Two-way splitter, 5-1218MHz dual mount
CSV3GD-1.2	Three-way splitter, 5-1218 MHz dual mount
CSV4GD-1.2	Four-way splitter, 5-1218 MHz dual mount
CSV8GD-1.2	Eight-way splitter, 5-1218 MHz dual mount
<b>1.8GHz Horizontal Splitters</b>	
CS2G1.8	HomeConnect Two-Way Splitter, 5-1218/1800MHz
CS3G1.8	HomeConnect Three-Way Splitter, 5-1218/1800MHz
CS4G1.8	HomeConnect Four-Way Splitter, 5-1218/1800MHz
<b>MoCA Horizontal Splitters</b>	
CSM2G	Two-way MoCA Splitter, 5-1675 MHz
CSM3G	Three-way MoCA Splitter, 5-1675 MHz
CSM4G	Four-way MoCA Splitter, 5-1675 MHz
<b>Directional Couplers</b>	
SVDC6G	DIRECTIONAL COUPLER, T-TYPE, 6dB
SVDC9G	DIRECTIONAL COUPLER, T-TYPE, 9dB
SVDC12G	DIRECTIONAL COUPLER, T-TYPE, 12dB
SVDCW6G	DIRECTIONAL COUPLER, WALL-MOUNT, 6dB
SVDCW9G	DIRECTIONAL COUPLER, WALL-MOUNT, 9dB
SVDCW12G	DIRECTIONAL COUPLER, WALL-MOUNT, 12dB
SVDCW16G	DIRECTIONAL COUPLER, WALL-MOUNT, 16dB
SVDCW20G	DIRECTIONAL COUPLER, WALL-MOUNT, 20dB
SVDCW23G	DIRECTIONAL COUPLER, WALL-MOUNT, 23dB
SVDCW26G	DIRECTIONAL COUPLER, WALL-MOUNT, 26dB

CommScope also offers a line of Directional Couplers, Power Passing splitters and wall mount splitters.

# Grounding solutions

## Application

Protect your home network from unwanted electrical surges with our reliable grounding products.

Forged from brass and galvanically. Compatible to interface with copper ground wires and Brass F connectors.

## Key characteristics

- Manufactured from forged brass and nickel plated for excellent galvanic capability and corrosion protection
- One or two piece design available both with machined brass barrel splice and machined interface surfaces
- Unique split bolt type ground (bond) clamp which seizes the ground wire without damage or weakening as with traditional screw seizures which can lead to breaks and open circuits
- Increased surface contact to the ground wire smooth sealing surfaces accommodate seal rings
- UL certified
- Surge protected version meets IEEE C62-41-B3 combination wave
- Also available in dual configuration
- Diamond shaped four-sided center conductor contact provides excellent retention, electrical performance and maximum surface contact on center conductors from 0.025-0.042 inches (based on SCTE 01-2006)

### Grounding Solutions

SVGB1G



SVGBSP



### Ordering Information

MID	Description
SVGB1G	GROUND BLOCK, BRASS, 1GHz, 1-PIECE
SVGB1GA	GROUND BLOCK, BRASS, 1GHz, 2-PIECE
SVGB1GD	GROUND BLOCK, BRASS, 1GHz, DUAL, 1-PIECE
SVGBSP	GROUND BLOCK, BRASS, 1GHz, SURGE PROTECT

# Barrel splices and wall plates

### Fittings and wall plates

SVF81GA



SVF81GAC



SVF81GACNW



SVWPIF81GA



SVWPPWF81GA



### Ordering Information

MID	Description
SVF81GA	FITTING, F81 BARREL, SEALING SURFACE
SVF81GAC	FITTING, F81 BARREL, ALL-THREAD
SVF81GACNW	FITTING, F81 BARREL, ALL-THREAD, HARDWARE
SVF81GANW	FITTING, F81 BARREL, HARDWARE
SVWPIF81GA	WALLPLATE, IVORY, SV-F81GA
SVWPPWF81GA	WALLPLATE, WHITE, SV-F81GA
SVLNW	NUT AND WASHER FOR SVF81GA

# Locking terminators and tools

## Locking Terminators and Tools

SV59TG



SV-LT



SV-LTA



SV-GGT4



## Ordering Information

MID	Description
CSPLS	PORT LOCK, BRASS, SEALING
SVGTT4	LOCKING TERMINATOR TOOL, GILBERT, 4"
SVLT	LOCKING TERMINATOR, BRASS (AC/DC BLOCK)
SVLTA	LOCKING TERMINATOR, BRASS
SVPL	PORT LOCK, BRASS
SVF59TG	"F" TYPE, 75OHM, PORT TERMINATOR

# Attenuators

## Attenuators

SVFAM1



SVFAM2



SVFAM3



SVFAM4



## Ordering Information

MID	Description
SVFAM1	ATTENUATOR, INLINE, 1dB
SVFAM2	ATTENUATOR, INLINE, 2dB
SVFAM3	ATTENUATOR, INLINE, 3dB
SVFAM4	ATTENUATOR, INLINE, 4dB
SVFAM5	ATTENUATOR, INLINE, 5dB
SVFAM6	ATTENUATOR, INLINE, 6dB
SVFAM7	ATTENUATOR, INLINE, 7dB
SVFAM8	ATTENUATOR, INLINE, 8dB
SVFAM9	ATTENUATOR, INLINE, 9dB
SVFAM10	ATTENUATOR, INLINE, 10dB
SVFAM12	ATTENUATOR, INLINE, 12dB
SVFAM16	ATTENUATOR, INLINE, 16dB
SVFAM20	ATTENUATOR, INLINE, 20dB
SVVBC90	VOLTAGE BLOCK COUPLER 90 VOLT

# Cable simulators, equalizers and test probes

## Cable Simulators, Equalizers and Test Probes

SV03



SV05



SVCS12



SVCS9



## Ordering Information for Test Probes

MID	Description
SV03	AC/RF PASSIVE PROBE, 1GHz
SV05	TEST PROBE, -20dB, POWER BLOCKED, 1GHz

## Ordering Information for Simulators and Equalizers

MID	Description
SVCS12	CABLE SIMULATOR, INLINE, 12dB
SVCS3	CABLE SIMULATOR, INLINE, 3dB
SVCS6	CABLE SIMULATOR, INLINE, 6dB
SVCS9	CABLE SIMULATOR, INLINE, 9dB
SVEQ12	EQUALIZER, INLINE, 12dB
SVEQ3	EQUALIZER, INLINE, 3dB
SVEQ6	EQUALIZER, INLINE, 6dB
SVEQ9	EQUALIZER, INLINE, 9dB

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