A. GENERAL INSTRUCTIONS (OPTIONS 1 & 2)

1. Install type F-male connectorized input coaxial cable to the "**RF IN**" port. (Refer to Options 1 & 2.)

2. Install type F-male connectorized RF coaxial cable to the "**OUT**" port(s). (Refer to Options 1 & 2.)

ALL MOCA ENABLED DEVICES MUST BE CONNECTED TO AN OUTPUT PORT (ports 1 thru 8).
MoCA signals are constrained to OUTPUT PORTS and WILL NOT pass from output to input ports.

3. Install type F-male connectorized RF coaxial cable to the "**MODEM**" port. This port is reserved for connection to the MTA or modem supporting voice traffic. (Refer to Options 1 & 2.)

4. Verify AC voltage rating of power source conforms with AC/DC adapter.

5. Connect F-male connectorized RF coaxial cable between "**PWR IN**" port on the drop amplifier and power adapter F-type connection. (Refer to Option 1.)

6. Connect the power adapter to the AC voltage source. (Refer to Options 1 & 2.)

7. Option 2: In reverse powering through the "**PWR IN OUT**" port:

Power Inserter (PCT-MPI-1G) is not provided with a PCT-VCF1-xx. If a power inserter is needed, it can be ordered separately. Please contact PCT customer service or your local representative for details.

a. Connect an F-male connectorized RF coaxial cable between the port "**PWR IN OUT**" on the drop amplifier and the "**TO AMP**" port on the power inserter (PCT-MPI-1G).

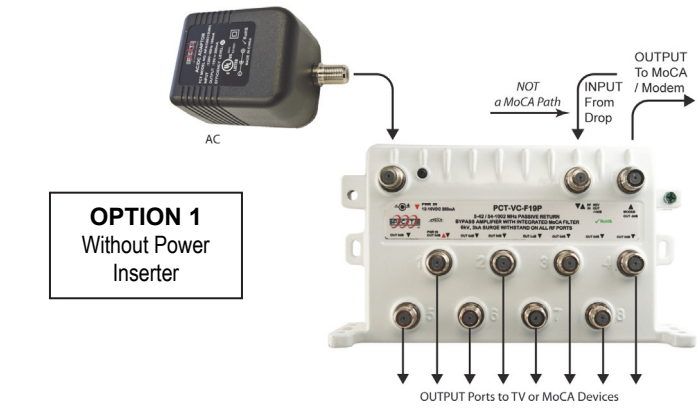
b. Connect the F-male connectorized RF coaxial cable to the power adapter and the "**DC IN**" port on the power inserter.

c. Connect the F-male connectorized RF coaxial cable from the "**TO TV**" port on the power inserter to distribution network.

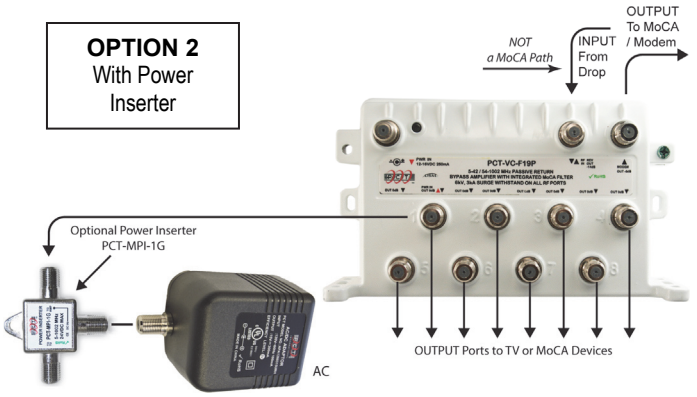
d. Connect the power adapter to an AC voltage source.

B. CONNECTION OPTIONS 1 AND 2

1. 9 Port Installations

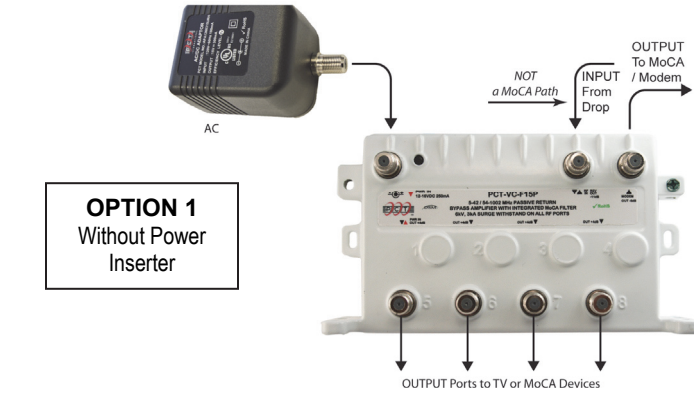


OPTION 1
Without Power Inserter

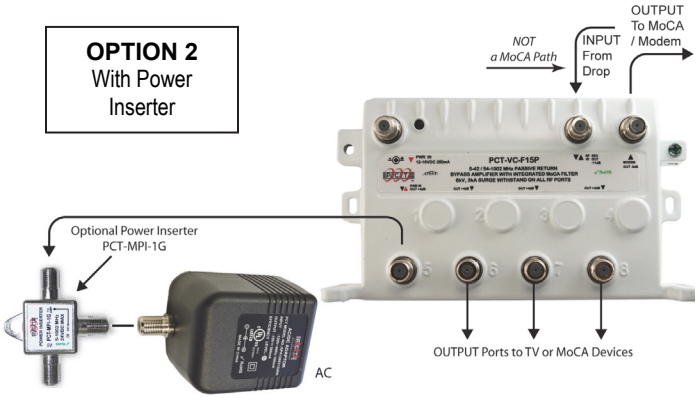


OPTION 2
With Power Inserter

2. 5 Port Installations



OPTION 1
Without Power Inserter



OPTION 2
With Power Inserter

2260 West Broadway Road | Mesa, Arizona 85202-1898 | USA | +1.480.813.0925 | Fax +1.480.545.1080 | info@pctintl.com

RELIABLE
CABLE PRODUCTS

Information about your new PCT-VC-F19A 8-Port Active Return Amp/Splitter with Bypass and Built-In MoCA filter

NOT FOR USE WITH SATELLITE SYSTEMS.

This amplifier is intended for use on cable TV systems, NOT satellite. Connecting this product to a satellite system can damage the amplifier and will void the warranty. If you have a satellite system, please arrange a product return prior to installation.

Do not use product with an Antenna system. For Antenna systems a *passive return* amplifier should be used, such as the PCT-MA2-8P.

The PCT-F19A amplifier is designed specifically for homes where advanced services are in use. MoCA (Multimedia over Coaxial Alliance) standards and equipment can be used to eliminate unnecessary cables and networking equipment. MoCA devices work by transmitting signals into an unused portion of your coaxial cable frequency range, and distributing these signals to any point in your home where TVs and other cable TV equipment are connected. MoCA does not interfere with normal cable TV operation, but MoCA enhanced equipment is required to take advantage of this capability.

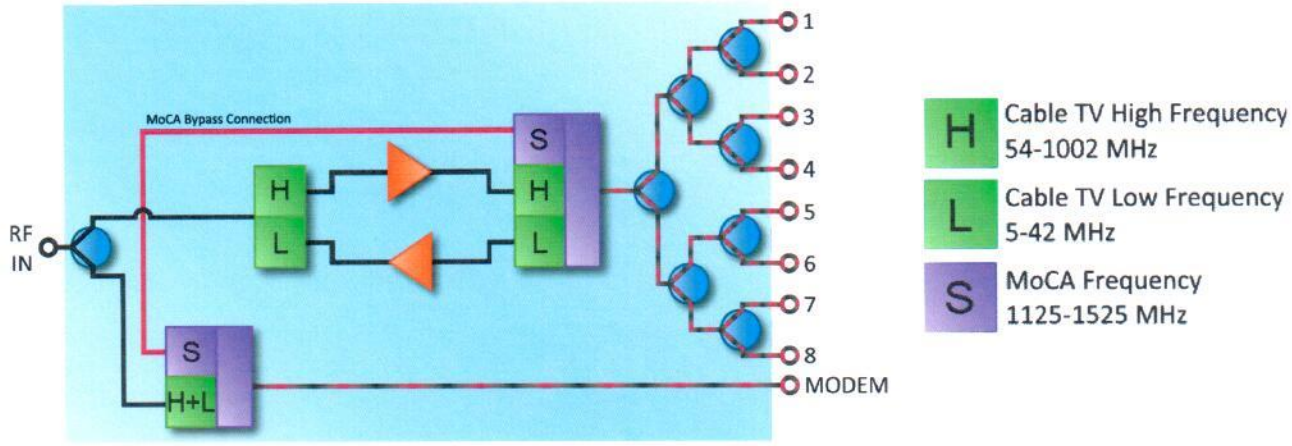
A common use for MoCA is to carry WiFi or LAN signals between areas of a home. For example, A MoCA Ethernet Adapter could be used to connect a TV or DVD player to your home network without using lower speed and less reliable WiFi signals. MoCA is more secure, in that the signals only travel along the cables IN YOUR HOME. They cannot be accessed outside your home.

The PCT-F19A also includes a MoCA filter on the input, which prevents your home MoCA signals from going outside of your home.

MoCA Amplifier Advantages:

- ✓ Distribution of video in the house for applications with multi-room DVR.
- ✓ Home high speed networking - allowing internet service, videos, and gaming to share bandwidth without losing speed and quality.
- ✓ High definition video streaming from the internet.

VC-F19A Port Diagram:



The cable signal enters on the left through "**RF IN**". At this point there is a built-in MoCA filter to prevent MoCA signals from being transmitted outside the home. The signal is passively split, with one side going to the amplifier circuitry, while the other side goes directly to the **MODEM** port. Output ports 1-8 are all equal in terms of signal distribution, and any TV or MoCA device can be connected to any port.
The **RED** line shows the MoCA bypass connection, which allows MoCA signals from ports 1-8 to reach the **MODEM** port.

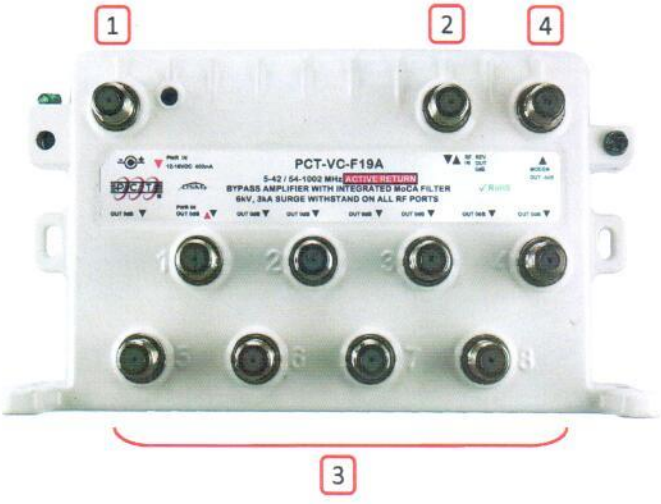
Connections:

1. PWR - connection to the power supply. Use a standard RG59 or RG6 coaxial cable, less than 100' long. Do not use any splitters or other connections on this line.

2. RF IN – Input signal connection. Connect the line coming from the cable company to this port.

3. Standard Outputs (Ports 1-8) - Amplifier outputs, going toward your TVs and devices in the home. These can be used for any purpose, including a cable modem. Any devices connected to these ports can communicate using MoCA signals.

4. Bypass Port - If you are connecting a cable modem or VoIP equipment, connect it here. This port does not receive any amplification, and will continue to operate even during a power failure. MoCA devices connected to this port WILL be able to communicate with devices on any other port. For example a MoCA Router can inject network signals onto the cable for use at any location connected to the F19A amplifier.



To insure the BEST performance, the amplifier should be connected at a point as close as possible to where the cable enters the house. Ideally it should be connected before splitters and cabling degrade the signal. The amplifier only performs well if the input signal is in good shape. If the input signal is weak, you may not get the results you expected.

Here are some things to look for if the product is not working as expected:

1. Is the green power LED on the amplifier lit? When the power is applied the green power LED will be lit.
2. Do the amplifier and power supply get warm after about ½ hour of use? Both the amplifier and power supply should get warm during normal operation.
3. Does the picture improve, get worse, or stay the same with the power applied? A signal that gets worse when power is on indicates that the input signal is "noisy", or that the amplifier circuitry is bad. Generally a signal will get MUCH worse if the amplifier circuity is bad
4. Have you tried different cables to connect the amplifier? Bad cables or connectors are common problems.

ADDITIONAL NOTES ON USING THE MoCA AMPLIFIER:

- This amplifier is compatible with all cable TV signals. All of the ports shown in green can be used for any purpose including fixing cable modem reception problems. However, if you connect a cable modem or Cable Phone equipment to these ports, you will lose service during a power failure. During a power failure the only port which will operate properly is the BLUE bypass port.
- It is HIGHLY recommended that as many devices be directly connected to the amplifier, i.e. "home runned" as possible. If you split the signal after the amplifier you may see signal degradation.
- The bypass port receives no amplification, forward or reverse. This means that any device attached to this port gets a slightly lower signal than is provided at the input port. This is OK, it is by design. You are not required to use the bypass port. If your cable modem performance is poor, try connecting your cable modem to a standard output port to improve performance.
- Every port in green receives the EXACT same signal as provided at the input port. Use one port or all eight – the signal level stays the same across all ports, exactly matching the input signal.

IMPORTANT NOTE: If your poor TV picture is caused by other issues (weak input signal, cabling problems, etc.) the amplifier may not have the desired effect on your picture. In some instances an amplifier will not be able to improve your picture.

www.reliablecableproducts.com