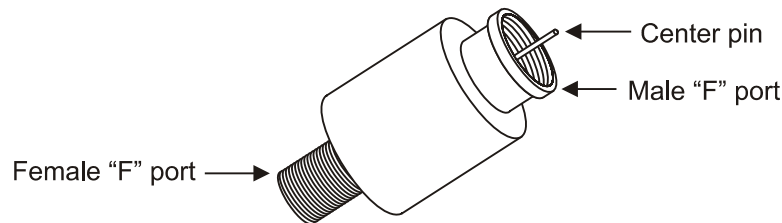


## General

The CP-90A and CP-230A coax protectors, when properly grounded, protect coaxial cable and connected equipment from power and lightning surges. This sheet covers the installation of protectors to the F terminal ground block of a Network Interface Device (NID) and to an F terminal ground block mounted inside a building.



## Equipment Description

Each protector comprises a gas tube encased by a metal cylinder having inline male and female F ports. The CP-90A protector has a breakdown voltage of 90 V and is intended for use in coaxial services operating with 70 V DC or less. The CP-230A protector has a breakdown voltage of 230 V and is intended for use in coaxial services operating with 150 V DC or less.

## How to Contact Us

- To find out more about **Carrier Apparatus** products, visit us on the web at: <http://cw.commscope.com/>
- For technical assistance regarding Carrier Apparatus products: contact your local CommScope account representative or Commscope technical support at 1-800-344-0223.
- Report any missing or damaged parts to CommScope customer service in Omaha, Nebraska, at 1-866-539-2795.

## Tools Required

- Adjustable open end wrench
- Socket set.

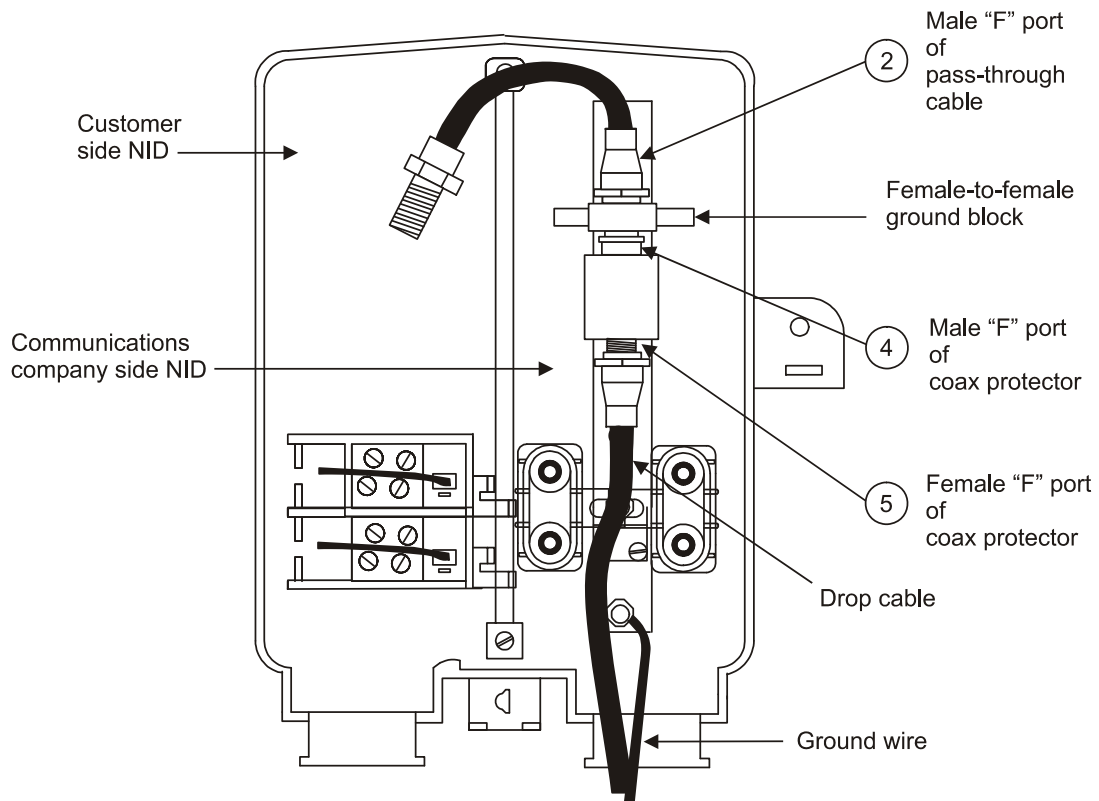
## Ordering Information

Product Name	Apparatus Code	Material ID	Description
Coax Protector 90A	CP-90A	107 826 703	90-V Coaxial Protector
Coax Protector 230A	CP-230A	108 058 173	230-V Coaxial Protector

## Installing in an NID With a Female-to-Female Ground Block

**⚠ Caution:**

Make sure that the F terminal ground block is properly fastened to a ground bar, connected to earth ground by way of a No. 10 or heavier gauge ground wire.



The coaxial ground of some Network Interface Devices (NIDs) uses a female-to-female ground block. In such configurations, the pass-through cable has a female port on one end and a male port on the other.

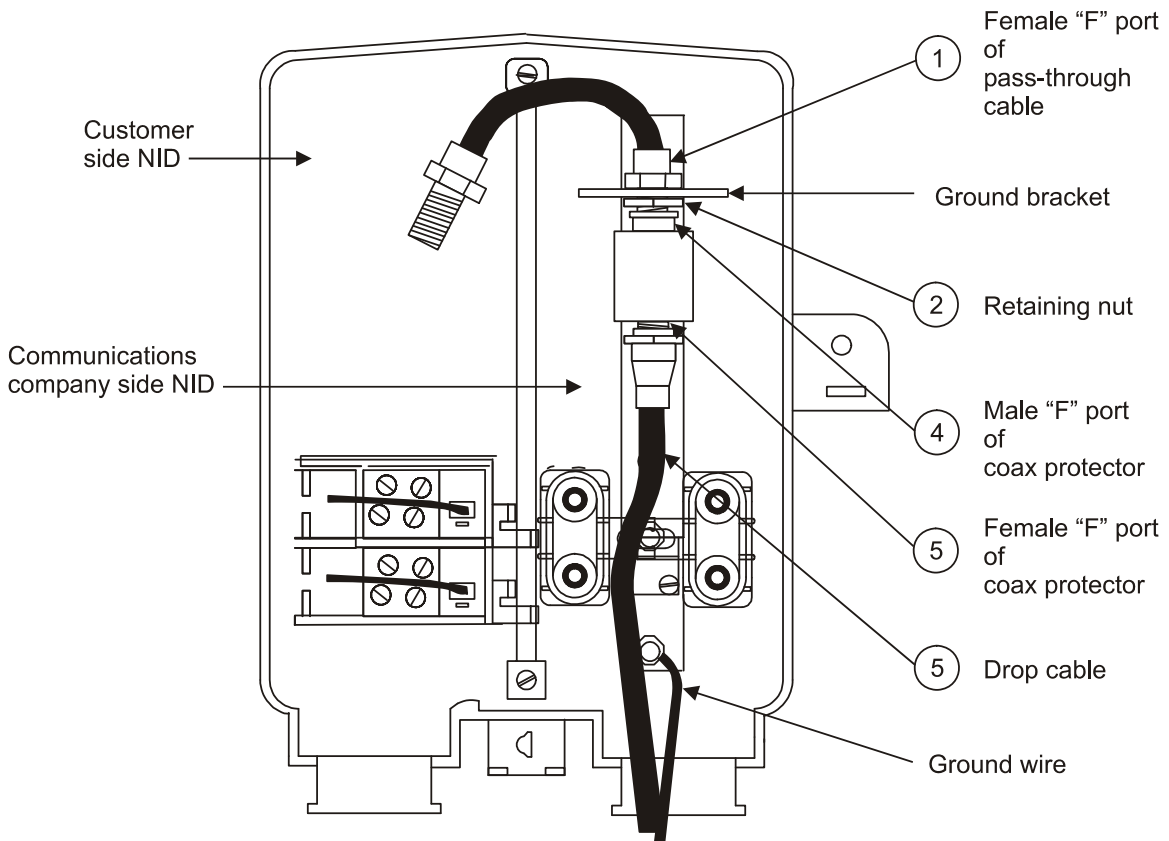
1. Center the center pin in the male port of the pass-through cable.
2. Screw the male port of the pass-through cable into the female-to-female ground block on the side opposite the drop cable entry point.
3. Center the center pin in the male port of the protector.

4. Screw the male port of the coax protector into the female-to-female ground block on the side facing the drop cable entry point.
5. Screw the male port of the drop cable into the female port of the coax protector.
6. Dress the customer side of the pass through towards the customer compartment.

## Installing in an NID With a Ground Bracket

**⚠ Caution:**

Make sure that the ground bracket is properly fastened to a ground bar, connected to earth ground by way of a No. 10 or heavier gauge ground wire.



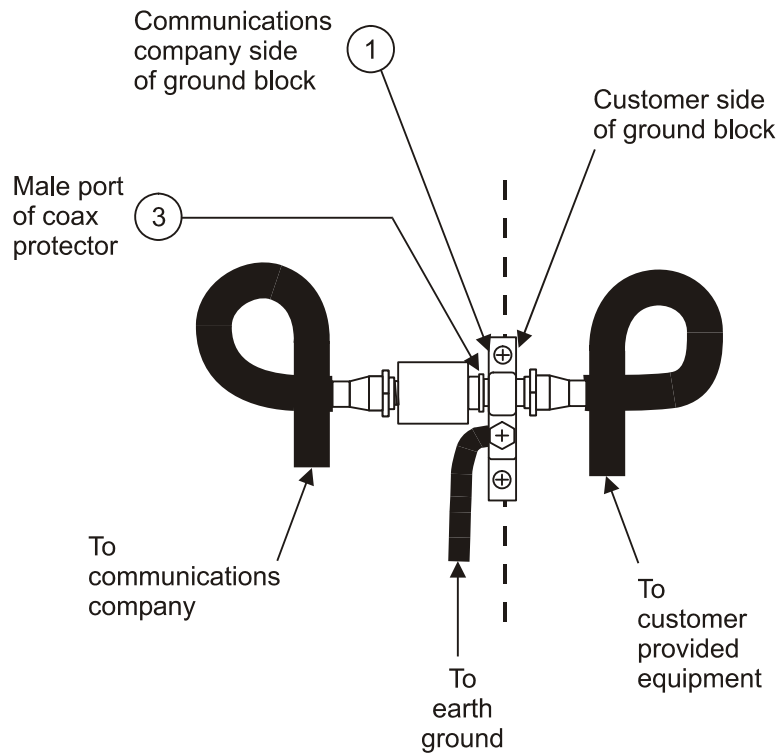
The coaxial ground of some Network Interface Devices (NIDs) uses a ground bracket that has a hole for an F port. In such configurations, the pass-through cable has a female port on both ends.

1. Insert one female port of the pass-through cable into the hole in the ground bracket from the side opposite the drop cable entry point.
2. Secure the pass-through cable to the ground bracket by firmly tightening the retaining nut.
3. Center the center pin in the male port of the protector.
4. Screw the male port of the protector into the grounded pass-through cable port.
5. Screw the drop cable into the female port of the protector.
6. Dress the customer side of the pass-through cable towards the customer compartment.

## Installing to a Female-to-Female Ground Block on Inside Mounting Surface

### Caution:

Make sure that the F terminal ground block is properly connected to earth ground by way of a No. 10 or heavier gauge ground wire.



The coaxial protector can be connected to an F terminal ground block outside an NID if the ground block is located on the inside of a building.

1. Once the ground block is mounted inside a building and the earth ground is properly connected, locate the port on the company side of the ground block.
2. Center the center pin in the male port of the protector.
3. Screw the male port of the protector into the company side of the ground block.
4. Screw the company-side cable into the female port of the protector.
5. Screw the customer-side cable into the customer-side port of the ground block.