Coaxial Cable Install Requirements

Summary

This Job Aid covers:

Viasat Service Coax Cable Installation Requirements

This Job Aid supports all technician audiences.

Viasat Service Coax Cable Installation Requirements

The following information discusses the various Viasat Communications cabling requirements for all Viasat Communications installations; all Partners, Wholesale and Retail.

Details:

Cable Run:

Installations require one length of Viasat approved High Speed, RG-6, 3.0 GHz, 75Ohm, solid copper COAX cable.

- One cable length is used for both the Transmit (TX) path and the Receive (RX) paths. The COAX cable used must meet or exceed the Viasat Communications specification.

Important: All Viasat installations require High Speed (3.0 GHz) COAX cable. See Cable Specification for additional information. This cable type has a maximum bend radius of 6 inches. Use only Viasat approved cable; see the Viasat Approved cable bulletin for the current list of approved cable models.

The cables must not exceed the maximum length of 150 feet long and be terminated with F-type Compression connectors that are fully weather sealed.

Important: All Viasat installations require compression weather-sealed connectors. See Connector Specification for additional information.

Warning! Never put a 90-degree bend in any cable run.

Verify that COAX cable used to all Viasat installations has a 100% solid copper center conductor. Copper clad cabling has proven to cause a problematic Viasat installation. Even if the copper clad cabling appears to work, it will often lead to service failures in the future. Weather Proof the installation! Use silicon weather sealant to seal the hole in the wall surface.

Important: It is extremely important that Viasat installations use only Viasat Approved coaxial cable models. These cable models support the following:

- The TX-Intermediate Frequency of 2225 MHz and RX-Intermediate Frequency of 1450 MHz required by the Ka-band Satellite Modem.
- COAX cable runs of 150 feet, or less. Length restriction prevents the Satellite Modem-to-Outdoor Unit voltage-drop on the TX run from exceeding 6.7 VDC limit.