Installation Instructions

Weatherproofing Kit for

Connectors and Antennas



A CommScope Company

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Description

The use of this kit provides an additional moisture seal for cable connections. It also prevents loosening of connections from vibration or other external stresses which would eventually allow moisture penetration. The sealed connection is suitable for typical exposed and buried cable applications. The kit can be used for one or more connections depending on the configuration and cable type (refer to the Final Measurements table after step 5 of the Feeder Cable to Jumper Cable Connection section).

Introduction

The application of sealing materials to antenna cable connections protects them from weather conditions. These include moisture penetration and loosening of connections from vibrations caused by strong winds.

The manufacturer recommends weatherproofing these connections according to the following procedures. Standard weatherproofing tapes both butyl and plastic electrical tapes, are applied to the following:

- · Main feeder cable-to-jumper cable connection
- Jumper cable-to-antenna connection

Become thoroughly familiar with and apply the Installation Tips given here.

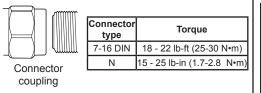
Installation Tips

- When applied, the tape must be above 32°F (0°C) to ensure adhesion. Keep tape warm by carrying in coat pockets close to your body.
- · Do not stretch the tape. Apply only enough tension to provide a smooth wrap. (Too much tension may result in butyl extrusion to occur).
- · Smooth each wrapped layer with your hands to ensure full adhesion.
- · Do not pull the tape to tear it always cut it. Pulled tape eventually unravels, decreasing protection.
- · In Moderately warmer climates where there will be long exposure to damaging ultra violet (UV) rays, two or three extra layers of tape will provide additional UV protection and secure butyl in position. Add one additional layer of 2" tape for a total of two layers and add two additional layers of 3/4" tape for a total of 5 lavers
- On vertical runs, the last wrap of 3/4" tape should be wrapped from the bottom to the top. This provides a shingle effect.
- · Ensure vent or drain holes at the bottom of the antenna or device are not covered with weatherproofing tape.
- · When wrapping tape, overlap the tape to halfwidth as shown here:

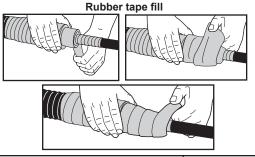


Feeder Cable to **Jumper Cable Connection**

Tighten the connection with a torque wrench to the proper torque value to ensure that correct internal seals and surface contacts are made.

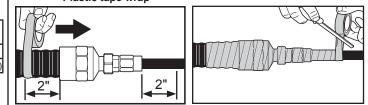


3 Cut the rubber tape into three 12" (305mm) lengths for 2-1/4" (57mm), 1-5/8" (41mm), and 1-1/4" (32mm) to $\frac{1}{2}$ " (13mm) connections. For 7/8" (22mm) to $\frac{1}{2}$ " (13mm) connections, cut three 4" (102mm) lengths of tape. Form a tapered surface by starting with two tapes that are folded to half-width and finishing with one full-width tape and end at the plastic tape wrap.

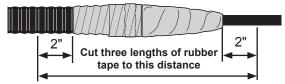


• Prepare the cable by removing any cable markers and drying the cable and Connectors. Starting at 2" (51mm) from the feeder connector, wrap the connection with a layer of 3/4" (19mm) plastic tape. Overlap the tape to half-width and extend the wrapping 2" (51mm) beyond the jumper connector or plastic strain relief of a jumper. NOTE: Do not remove the jumper strain relief.

Plastic tape wrap

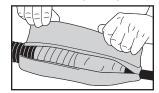


Measure 2" (51mm) from the plastic tape on feeder connector to **4** 2" (51mm) beyond the plastic tape or rubber tape fill on the jumper connector and cut three lengths of rubber tape to this distance.



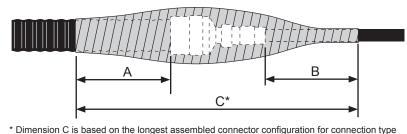
Rubber tape wrap

Lay the three rubber tapes around the entire connection so that they overlap. Pull the tape as needed for overlap. Press the tapes together along the overlaps



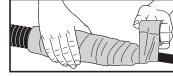
Final Measurements

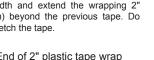
Connection type	Cable diameter	Connections per kit	Α	в	C*
2-1/4" to 1/2"	2-1/4" to 1/2" (57mm to 13mm)	2	8"	8"	24-5/8" (625mm)
1-5/8" to 1/2"	1-5/8" to 1/2" (41mm to 13mm)	2	8"	8"	23-1/4" (591mm)
1-1/4" to 1/2"	1-1/4" to 1/2" (32mm to 13mm)	2	8"	8"	21-1/2" (546mm)
7/8" to 1/2"	7/8" to 1/2" (22mm to 13mm)	4	8"	8"	22-3/4" (578mm)
1/2" to 1/2"	1/2" to 1/2" (13mm to 13mm)	12	8"	8"	21-7/8" (556mm)
7/8" to Device	7/8" to 1/2" (22mm to 13mm)	12	N/A	N/A	N/A
1/2" to Device	1/2" to 1/2" (13mm to 13mm)	12	N/A	N/A	N/A



 $\mathbf{5}$ Wrap the connection with a layer of the 2" (51mm) tape and then three continuous layers of the 3/4" (19 mm) plastic tape. Overlap each tape to half-width and extend the wrapping 2" (51mm) beyond the previous tape. Do not stretch the tape.

End of 2" plastic tape wrap



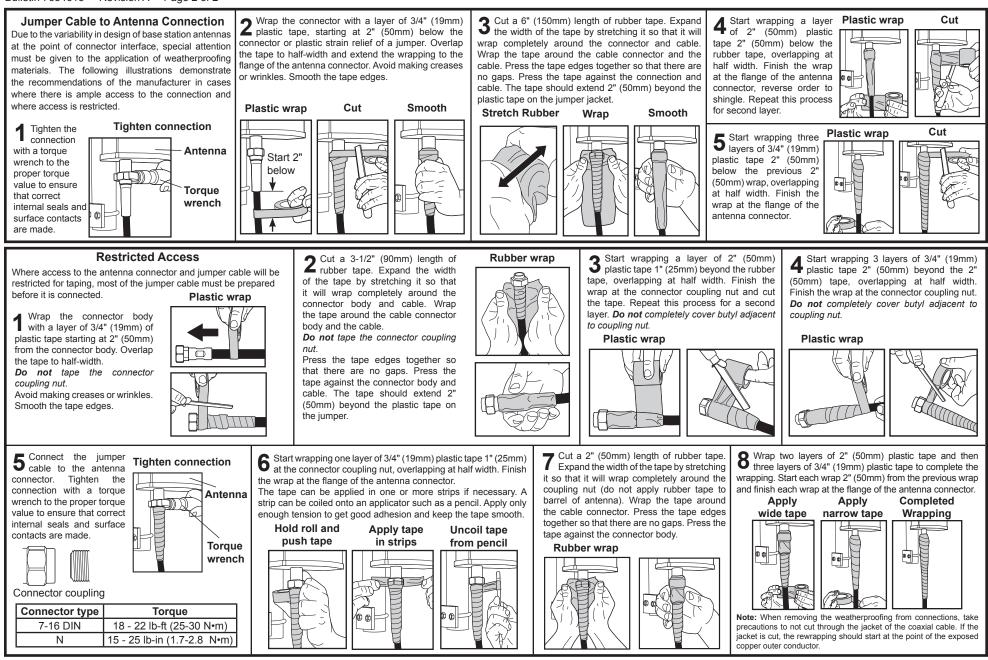




Start of 3/4" plastic tape wrap



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