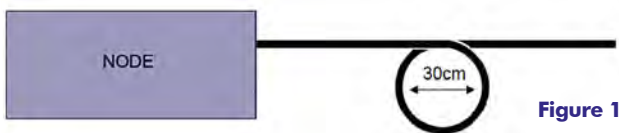


# NODE SERVICE CABLE INSTALLATION INSTRUCTIONS

Same care and handling should be given to the node service cable and its packaging as given to any CommScope optical fiber cable during transit warehousing and installation.

The node service cable is typically installed into the splice closure first, where it is prepared and then fusion spliced. The splice closure is then installed on the strand in and aerial application or placed in the vault or pedestal in and underground application.

The node service cable should be mounted to the strand or to a bracket so that a 30cm (12 inch) loop can be created about 30cm (12 inch) away from the node (Fig-1) so that the cable flips down when the node is opened and flips back up into the coil when the node is closed. This will prevent damage to the node service cable from radial strain.



The next step is to have the node mounted to either the strand or pedestal/vault bracket. Once the node is mounted in place the node is opened up to enable the installation of the node service cable.

Slide the optical fiber connectors and the node connector through a piece of heat-shrink and slide it back onto the cable out of the way.

Each connector must be carefully fed through the node service cable port on the node one at a time (Fig-2 and 3).



Figure 2



Figure 3

Next, the connector must be separated into the individual components (Fig-4 and 5)



Figure 4



Figure 5

The head of the connector is then threaded into the port, hand tight, then  $\frac{1}{4}$  turn with an 8 inch wrench only (Fig-6).



Figure 6

Next, the rubber grommet is slid into place (Fig-7).

**NOTE:** If the grommet is free to slide back on the cable (no stop), you must carefully position the cable in the connector for best performance. Insert the cable until it stops, then pull back  $\sim 10$  mm before tightening. Tightening a connector with the cable fully inserted can damage the connection. In designs where the grommet cannot slide back, this step is not necessary.



Figure 7

Then the locknut is threaded into place by hand (Fig-8 and 9). After this is done the locknut may be turned by wrench  $\frac{1}{4}$  -  $\frac{1}{2}$  turn with an 8" wrench only while holding the head nut with an 8" wrench so that it will not turn. Heat-shrink should then be slid into place and shrunk down using low heat to ensure the heat shrink is not burned.



Figure 8



Figure 9

For more information, please contact the Broadband Resource Center  
1-866-333-3BRC (3272) or [BRC@commscope.com](mailto:BRC@commscope.com)



P.O. Box 1729 • 1100 CommScope Place, SE  
Hickory, North Carolina (USA) 28603 • Tel 800 982 1708 • 828 324 2200  
[www.commscope.com](http://www.commscope.com)