NodeFLEX® Cable Assembly

The AFL NodeFLEX cable assemblies are used to link the Optical Distribution Network (ODN) to Hybrid Fiber-Coaxial (HFC) Nodes. The NodeFLEX fitting includes a SCTE 5/8-24 UNEF threaded fitting with a flexible boot with integrated steel wires that allow installers to flex the boot to an angle up to 90° and hold that position for applications where 90° entry is required.

1. Start by opening the node body to access the interior interconnection bulkhead.
2. Clean the exterior housing of any dirt or debris then remove the node housing protective plug.
3. Thread the fiber optic connectors and jumpers one by one, inserting SC first then LC, through the female fitting until all the connectors are inside the node housing. **(Figure 1 & 2)**
4. Carefully thread the SCTE 5/8-24 UNEF male thread fitting of the NodeFLEX cable assembly into the female fitting of the node housing making sure the threads are started properly and not cross threaded.
5. Continue to tighten the male fitting by hand until the O-ring starts to compress into the node female fitting. **(Figure 3)**
6. Use a crescent wrench to final tighten the fitting to approximately 10 ft-lbs. Do not overtighten the fitting as this will damage the o-ring that provides the water ingress protection. This will provide IP-68 water ingress protection for up to 3 meters of water-head. **(Figure 4)**
7. The ribbed boot design will allow up to 90 degrees of bend without inducing any attenuation, or it can be left straight for direct connections to the node terminal. Flex the boot to the desired orientation, bending only in the direction of the ribs. **(Figure 5)**
8. Remove the protective caps on the NodeFLEX cable assembly one by one and clean the connector with an approved connector cleaner such as the OneClick® fiber connector cleaner prior to plugging in the connector to the node.
9. Dress the pigtail in the node so that the pigtails are properly secured and routed.
10. Close the node housing by properly torqueing the housing body bolts in the proper sequence.

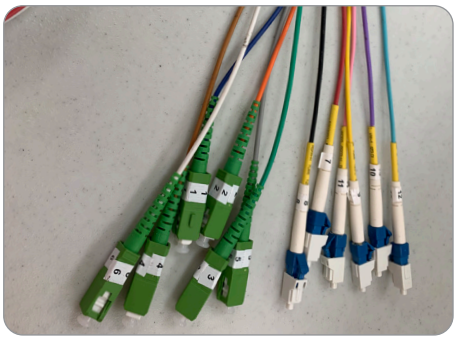

Figure 1

Figure 2

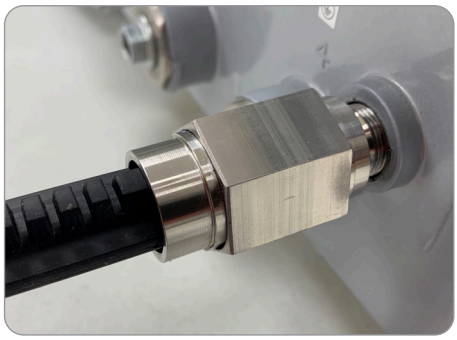

Figure 3

Figure 4

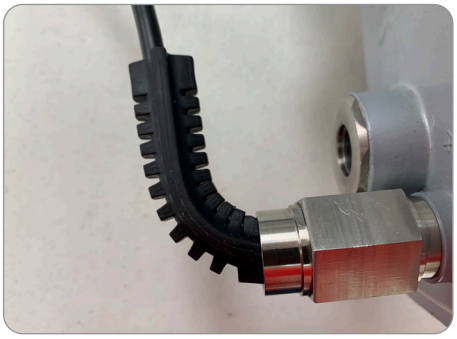

Figure 5