

ClampStar®
Recommended Installation Procedure For Optical Ground Wire (OPGW) Assemblies

ClampStar® OPGW assemblies provide secondary suspension support for overhead shield wire dead end and tangent suspension structures. In the event the primary suspension device does fail, the OPGW assembly will retain the shield wire, and prevent it from dropping onto the phase conductor(s).

ClampStar® OPGW assemblies are shipped with the keepers open to allow the assembly to be installed without further adjustment. Each keeper bolt is equipped with a torque limiting shear nut. When this nut shears, during installation, further adjustment of the fastener SHALL NOT be done. Each keeper bolt is equipped with a tension sustaining device and proper sequence of assembly is key to the function of this device. It is recommended the shear nuts and subsequent components not be removed. If for any reason these components are removed, please contact the factory for proper re-assembly instruction.

ClampStar® OPGW products are designed for use on aluminum-coated steel and alloy optical ground wire (OPGW) only. Non-Optical Overhead Shield Wire requires the "OHSW" rated products, consult factory.

The shield wire clamp body must fasten directly to the OPGW wire. Inspect the OPGW wire for strand damage where the ClampStar® will be installed. If present, assure the ClampStar® is of sufficient length to be installed beyond the damaged area. Likewise, assure the ClampStar® is of sufficient length to be clear of any armor rods and connectors (see *illustration 5*).

ClampStar® OPGW assemblies SHALL NOT be used on phase conductors. Consult the factory for phase connector applications.

ClampStar® OPGW assemblies come individually packaged in sealed plastic bags with their cable grooves factory-loaded with proprietary inhibitor compound. The assembly shall be kept in the sealed container prior to installation to prevent dust/dirt contamination. Additional inhibitor is not required and alternate inhibitor compounds shall not be used.

ClampStar® OHSW Installation Instruction:

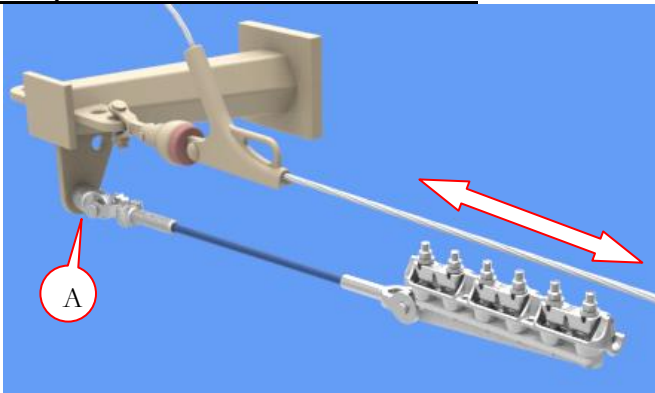


Illustration 1

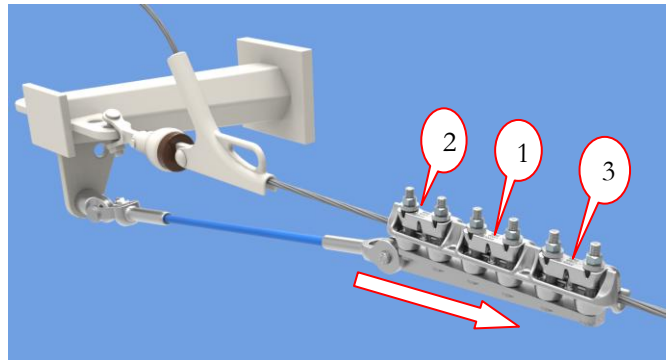


Illustration 2

1. Determine the attachment point for the Clevis Tongue (see "A" in *illustration 1*). This point should be as close to vertical as possible, in relationship to the shield wire. Attach the Clevis Tongue, in a vertical orientation, to the structure with the provided bolt and lock washer. Using a 1-¹¹/₁₆" nut wrench, tighten the Clevis Tongue bolt to 70 lb/ft.
2. Determine the location where the ClampStar® unit will seat on the shield wire and wire brush the shield wire to remove dirt and contaminants. Brush the wire enough to slightly abrade the coating, but do not remove the coating.
3. Attach the ClampStar® assembly to the Clevis Tongue using the Y-Clevis/Bent Bolt.
4. Position the Clamp Star® assembly on the shield wire (see *illustration 2*) pushing the unit toward the tension span to eliminate slack in the ClampStar® attachment hardware.
5. Using a 3/4" nut wrench, **BEGINNING WITH THE CENTER KEEPER**, tighten the bolts up snug against the conductor, then the outermost keepers.
6. When all the nuts are snug, go over them once to achieve an approximate torque of 15 - 25 lb/ft., this is not critical so no exact measurement is required. This step is to "Gather" the strands and eliminate gaps between the strands.
7. As a final pass, beginning at either end, tighten each nut in succession until the 3/4" hex nut shears off leaving the 15/16" permanent nut in place.
8. For tangent suspension applications, repeat steps 1 - 7 for the opposite span from the structure (see *illustrations 3 and 4*)



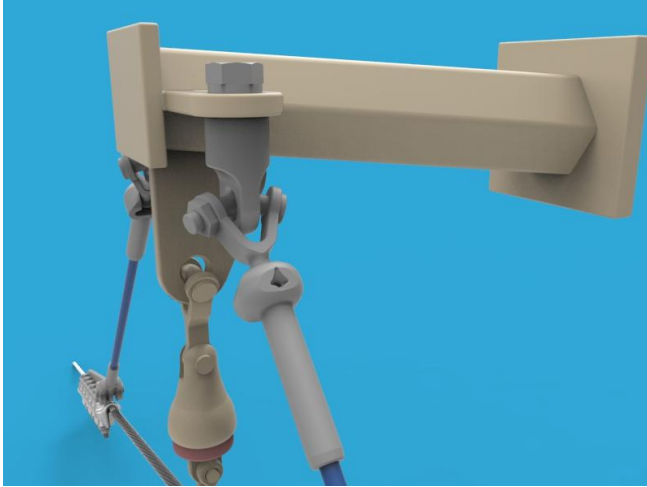


Illustration 3

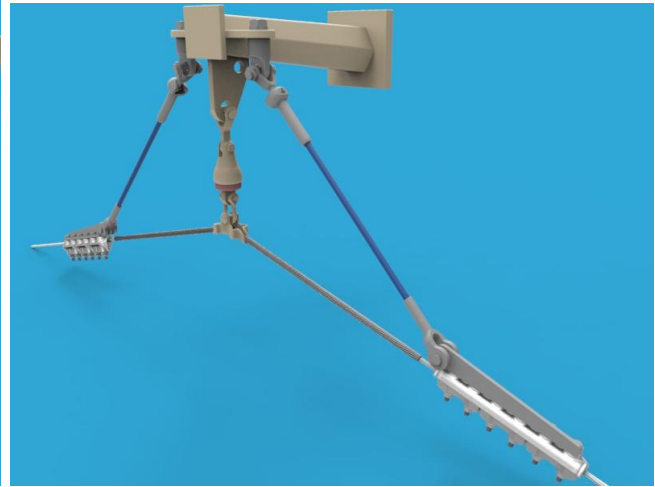


Illustration 4

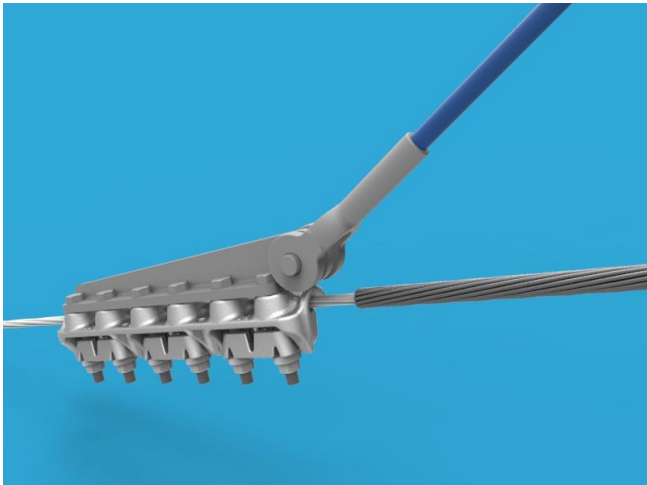


Illustration 5

NOTE: These instructions do not claim to cover all details or variations in equipment or installation, nor to provide for all possible conditions concerning installation, operation or maintenance of this equipment. If further information is desired or if particular problems are encountered which are not sufficiently covered in this guide, contact Classic Connectors, Inc. at the above address or telephone numbers.