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Classic Connectors, Inc.

"CSS" style ClampStar

Due to popular demand, CCI has developed the New "CSS" style ClampStar units for use on Deadends and Suspension Clamp applications! Made with a single conductor leg, the new unit installs in minutes, the same as the traditional ClampStar units that are installed over splices.

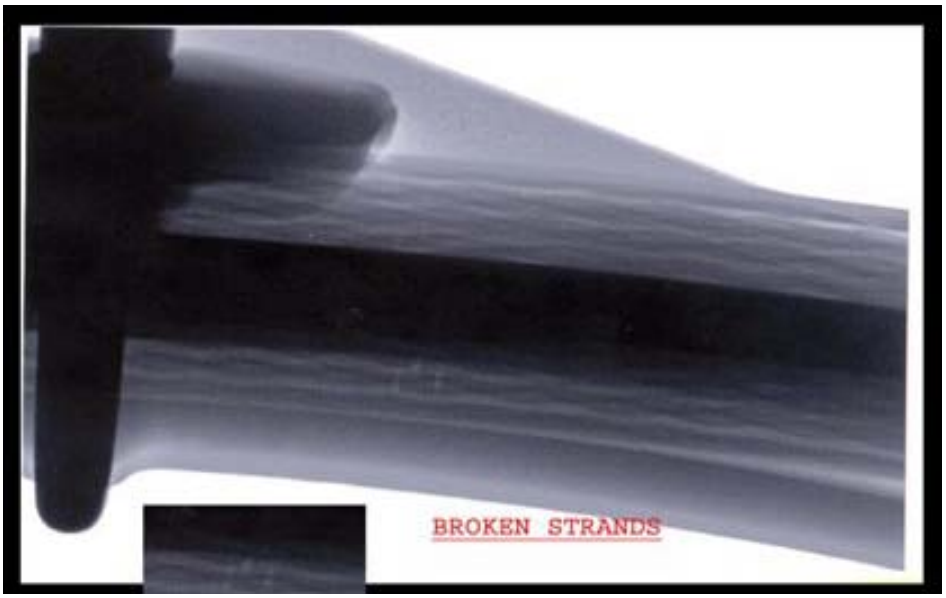
Several applications have given rise to the need for this new design. While the standard "CSF" ClampStar units can be installed on deadends and suspension clamps, it is more difficult than installing them over splices, as the torque nuts must be tightened from above. This new "CSS" design allows the installer to approach from below, with the fasteners positioned downward as well, allowing the same easy access to tightening them as that of a traditional ClampStar over a splice.

Our customers have brought to our attention that they have several instances where conductor stranding has broken due to fatigue resulting from vibration!

Photo Courtesy Jerry Reding – BPA

In more typical situations (and perhaps less humorous) the resulting fatigue, at the mouth of a bolted deadend, or suspension clamp serves to severely compromise the mechanical and electrical integrity of the conductor; the traditional method of cutting in a section of conductor with two splices is several times more expensive and much more time consuming than installing a ClampStar.

Broken and severely worn strands inside bolted, quadrant style deadends



Broken Strands inside standard suspension clamp. X-Ray Photo Courtesy US Airmobile

In many installations, where helical rods have been employed in suspension applications, fatigued/broken strands have been found at the end of the rods, or underneath them.

Attempted correction to fatigue at rod ends by placing dampers adjacent breakage locations unsuccessful

In some instances, severe corrosion has occurred within the confines of the elastomeric inserts of some suspension systems, as well as under the rods, particularly where inhibitor was not used.

Severely corroded condition of conductor under helical rod suspension applications

Of course, typical mechanical failures of compression style deadends are also remedied by the simple, fast, and inexpensive application of a "CSS" style ClampStar!

Typical catastrophic failure examples of single die compression deadends

Like their earlier cousins, the CSR and CSF units, the new CSS "Single Leg" units, fully restore electrical integrity, completely eliminating any current/temperature restrictions on the connectors they protect. Installed easily on energized lines, ClampStar is simply the fastest and most economical means to repair failing connectors or uprate an existing line to higher ampacity by eliminating the concern for connector integrity – the "weak link" in thermal uprate projects.

With the exclusive ClampStar 'Safe-T-Link' mechanical integrity can also be restored on aged deadends or suspension clamps where a high percentage of conductor stranding has broken due to vibration and fatigue.

Illustration of CSS-1108-040 with Safe-T-Link and Corona Shields on AGS Type Suspension

If your company has any deadends, suspension clamps or suspension systems that exhibit any of the above illustrated situations, ClampStar is your solution to restore full electrical and mechanical integrity to the line. Avoid expensive conductor replacement normally required to resolve these issues – ClampStar, it's simple, quick and economical.

What is the cost of doing nothing???