COOPER POWER SERIES

15, 25 and 35 kV EZ II splice

Eaton provides a permanent, fully shielded, submersible cable joint with a current rating equal to that of the mating cable with its Cooper Power™ series 15, 25, and 35 kV EZ™ II one-piece splices. Typical applications would include repair, replacement or extension of high voltage underground cables. Wide range taking cable entrances make the EZ II splice ideal for transition splicing of dissimilar size cables. The EZ II splice can be installed in conduit, direct buried or vault applications.

Part numbers

The EZ II line of splices replaces Eaton's previous Cooper Power series 200 A splice line. The EZ II splice line incorporates a catalog numbering system similar to that used on our other cable accessories products. The base part number "SP", with the Voltage Class, the Cable Range Code, Conductor Code, Optional Components and Packaging are selected to meet the specific customer splicing needs.

Example Catalog Number: SP15A002S, for a 15 kV splice, cable insulation range 0.64"-0.84", #2 stranded cable, with a single piece rejacketing kit, bulk packed.

Design features

The EZ II splices are screw ram injection molded using peroxide cured EPDM rubber for the semi-conductive shell and insert as well as the high voltage insulation. The splices meet and exceed all the requirements of the IEEE Std 404™-1993 standard. In addition, the splices have exhibited excellent long term stability on Eaton's field proven Multi-Stress test.

A number of design features make the EZ II splice the easiest to install on the market. Splice features include:

Easy installation

- Tapered cable entrances: Reduces cable to splice friction, reduces lubrication wipe-off, (leaving lubrication to ease installation).
- Smooth bore: Reduces cable to splice friction.
- Relieved conductive insert: Reduces cable to splice friction.
- Reformulated rubber: Reduces the force required to expand the splice during cable installation.
- Contoured body: Provides a gripping location for the operator.

Wide cable ranges

- Transition splices: One splice body can accommodate both 100% and 133% cable insulation diameters for 15, 25, and 35 kV class cables. Acceptance of standard size transition connectors. Stocking flexibility: Fewer bodies to cover the typical cable ranges means fewer splices to stock.

Added design features

- Tapered ribs on the I.D. of the conductive insert: Ensures superior heat transfer between compression connector and splice body. (Poor heat transfer is one of the leading causes of splice failure.) Ribbed insert allows passage of cable repair fluid.
- Molded in compression connector diameters: Matching the proper diameter and length compression connector to the correct splice body is critical to heat transfer and long-term field life. Connector diameters are molded into the splice body, eliminating the guesswork involved in matching splice bodies and compression connectors.
- Conductive insert ends encapsulated with insulating rubber: Reduces cable extrusion and distortion that can be caused by thermocycling. Mitigates the effects of the electrical stresses along the cable to splice interface, greatly reducing the possibility of interface tracking.

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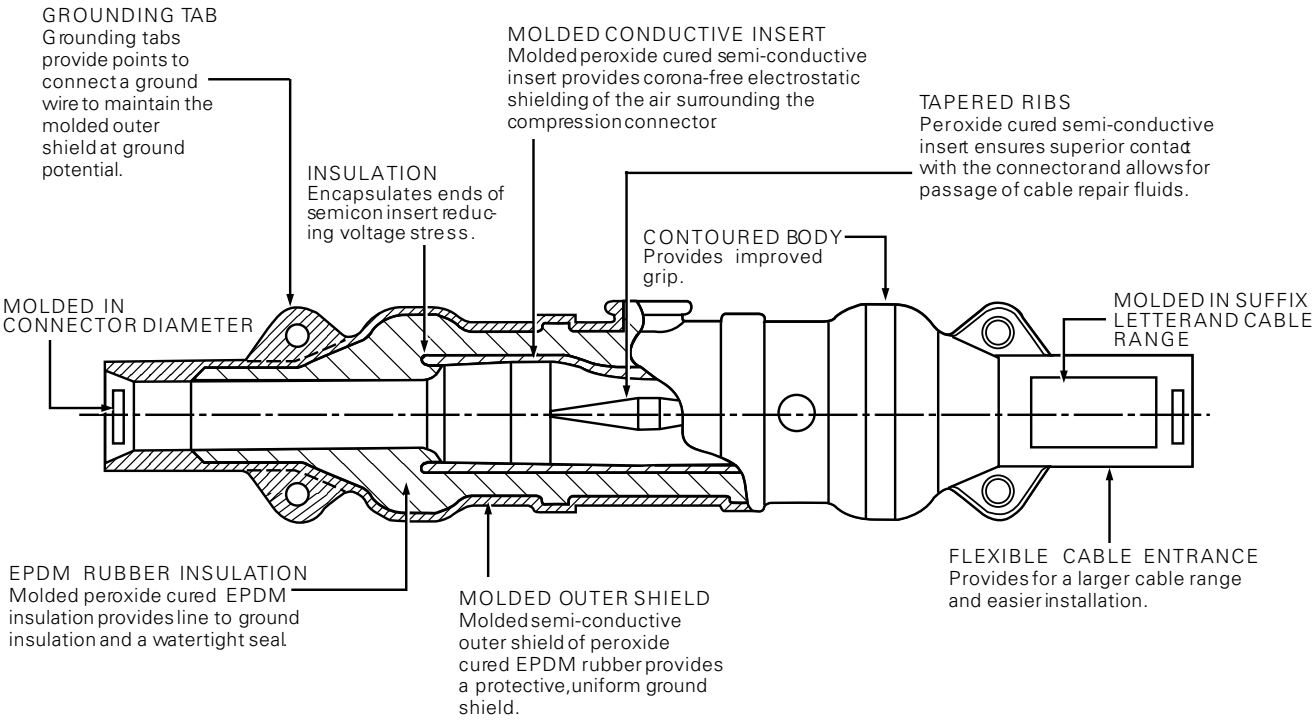
Installation

The EZ II splices have been designed to install using typical cable stripping and crimping tools found on all line trucks. Optional two-piece and one-piece cold shrink rejacketing kits are also available. Flexible cable entrances increase the visibility of the ends of the cable insulation shield, allowing foolproof centering of the splice.

Specification

To ensure you have the most reliable, installation friendly, economical, one-piece splice available, your splice specification should include:

- Manufactured in full compliance with all applicable IEEE Std 404™-1993 and IEEE Std 592™-2007 standards
- Manufactured from peroxide cured EPDM rubber
- Ground shield molded on
- Wide range taking cable entrances
- Compression connector diameter molded into splice body
- Ribbed conductive insert
- Encapsulated ends of the conductive insert



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