

Cold-Applied Terminations & Splices

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EVERY CONNECTION COUNTS

ENERGY SOLUTIONS

**GRID CONNECTIVITY
+ RELIABILITY**





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For Maximum Grid Reliability

A worker wearing a blue hard hat and an orange safety vest is looking down at a laptop. The background shows a blurred industrial setting with power lines and structures.

INSTALLS EASIER

Compact and robust designs
utilizing spiral holdouts
that are easy to release

Two workers in hard hats are silhouetted against a bright orange sunset sky. A large wind turbine is visible in the background.

PERFORMS SMARTER

Increased performance due
to the integrated
geometrical stress control
and sealing in one design

A night-time view of a city skyline with many illuminated skyscrapers and buildings.

RUNS LONGER

Premium silicone material
with outstanding weathering,
UV and ozone resistance

MV Cold Applied Technology Joints and Terminations

Decades of proven performance in cold applied technology.

- Cold shrinkable accessories pre-expanded on **easy to remove robust holdouts**.
- **Silicone Rubber material** providing large expansion ratios and application ranges with **excellent electrical properties**
- Single piece design with **integrated geometrical stress control** elements.
- Qualified according to **IEEE 404** (joints), **IEEE 48** (terms) // **CENELEC HD 629.1**, **IEC-60502** // **GB/T 12706.4-2002** & numerous customer specifications.

CSJ Cold Applied Joints

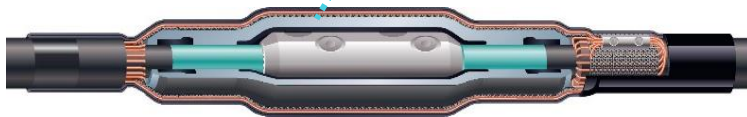
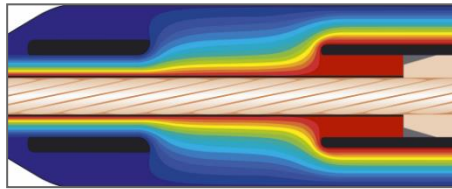


CST Cold Applied Terminations



MV Cold Applied Technology Electrical Stress Control

CSJ Cold Applied Joints



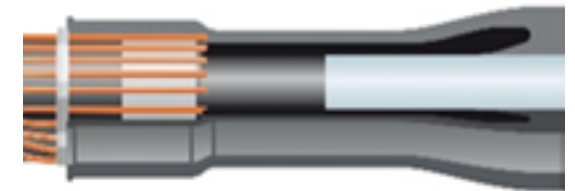
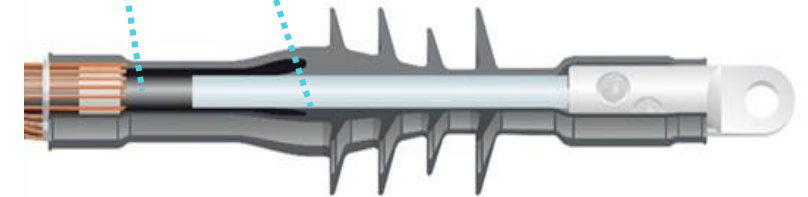
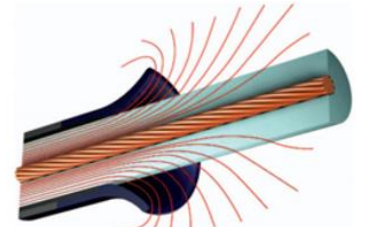
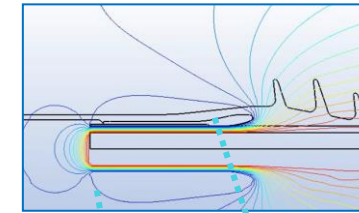
Integrated geometrical stress control at semicon area in both joints and terminations

Technology based on high voltage systems

Joints have a Faraday cage over connector area –equal potential

Well defined voltage distribution

CST Cold Applied Terminations



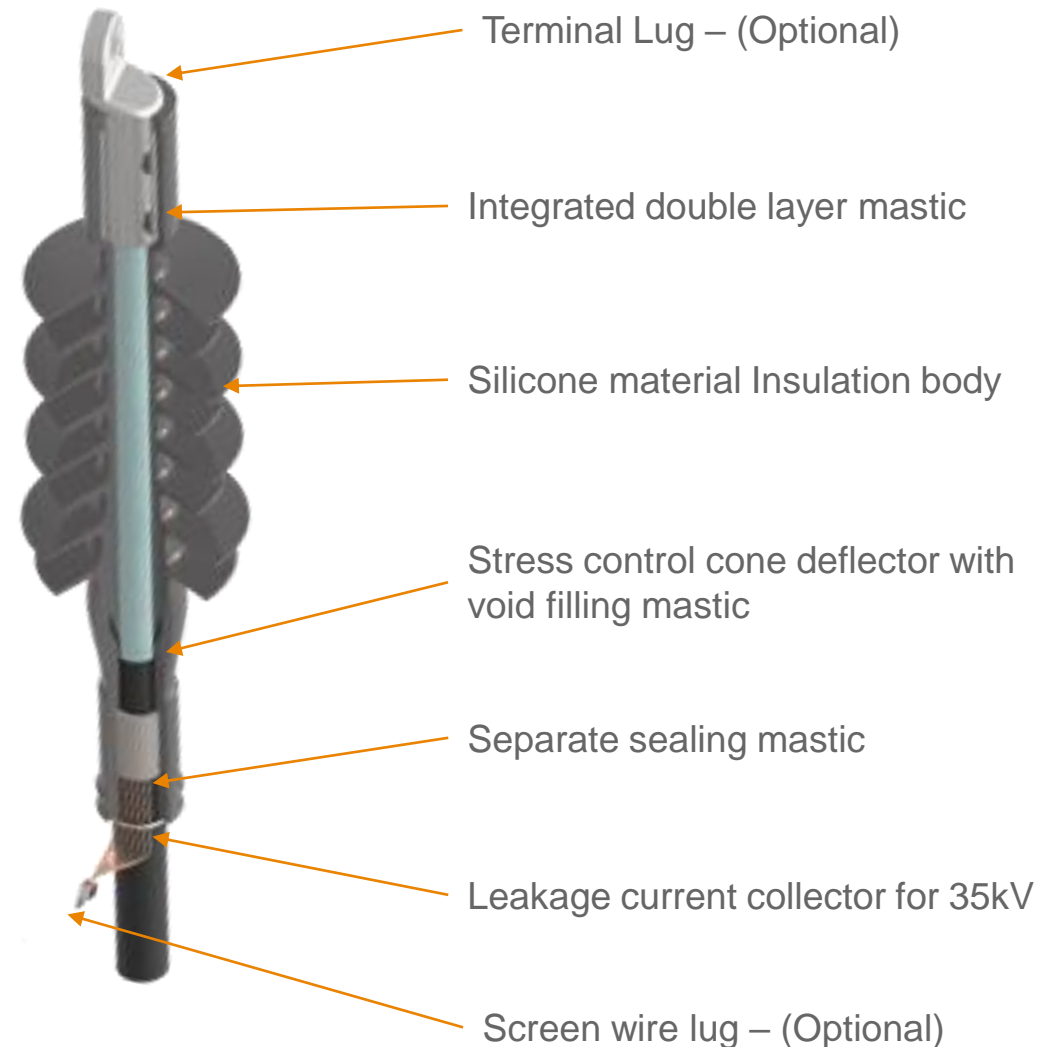
TE Raychem Cold Shrink Termination (CST)

CSTI - Indoor and CSTO - Outdoor

- Termination silicone material body on **funnel shaped holdout**
- **Excellent electrical properties**, including high tracking resistance and high dielectric strength
- **Integrated electrical stress control** by using geometrical stress cone, with void filling mastic
- **Integrated double layer sealing mastic** (Lug side)
- **Rated at up to 35kV, use range up to 2000MCM**



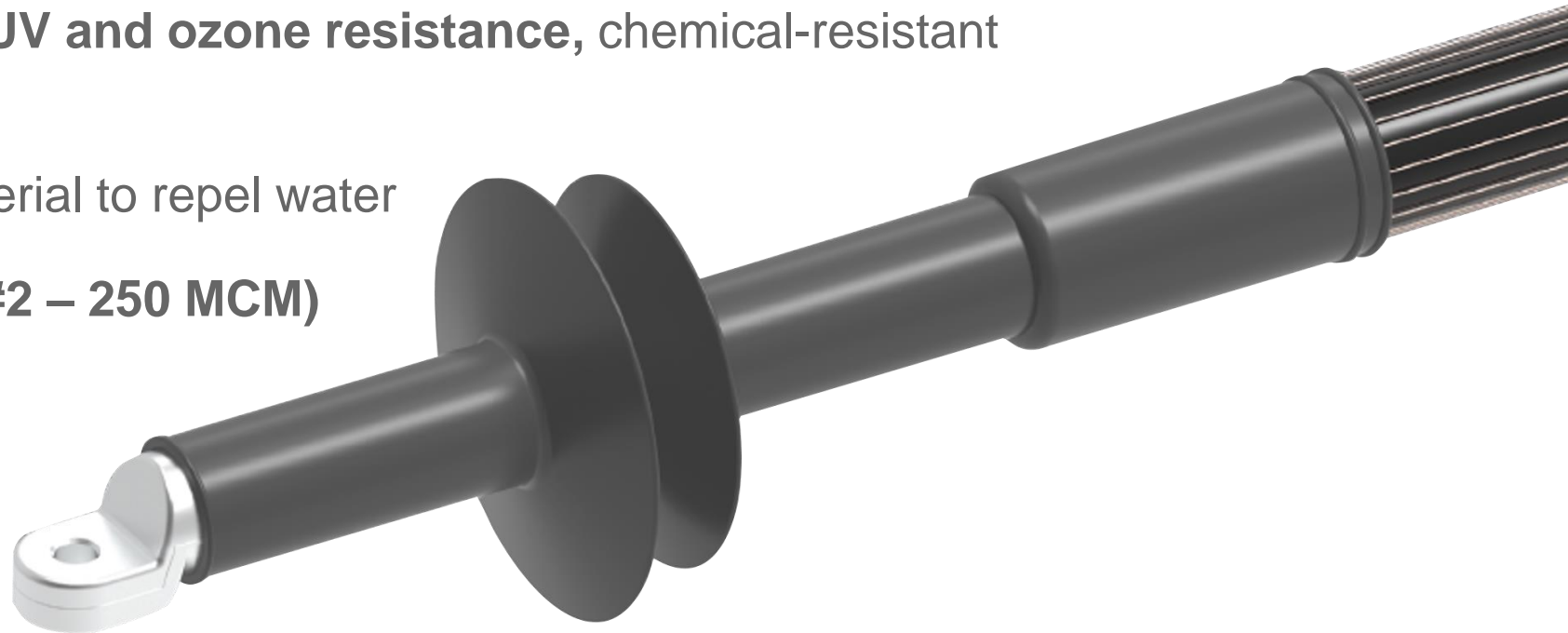
Easy release spiral holdout



New - Product Line Extension

CSTOS-152 Short-body Termination - 15kV (#2 – 250MCM)

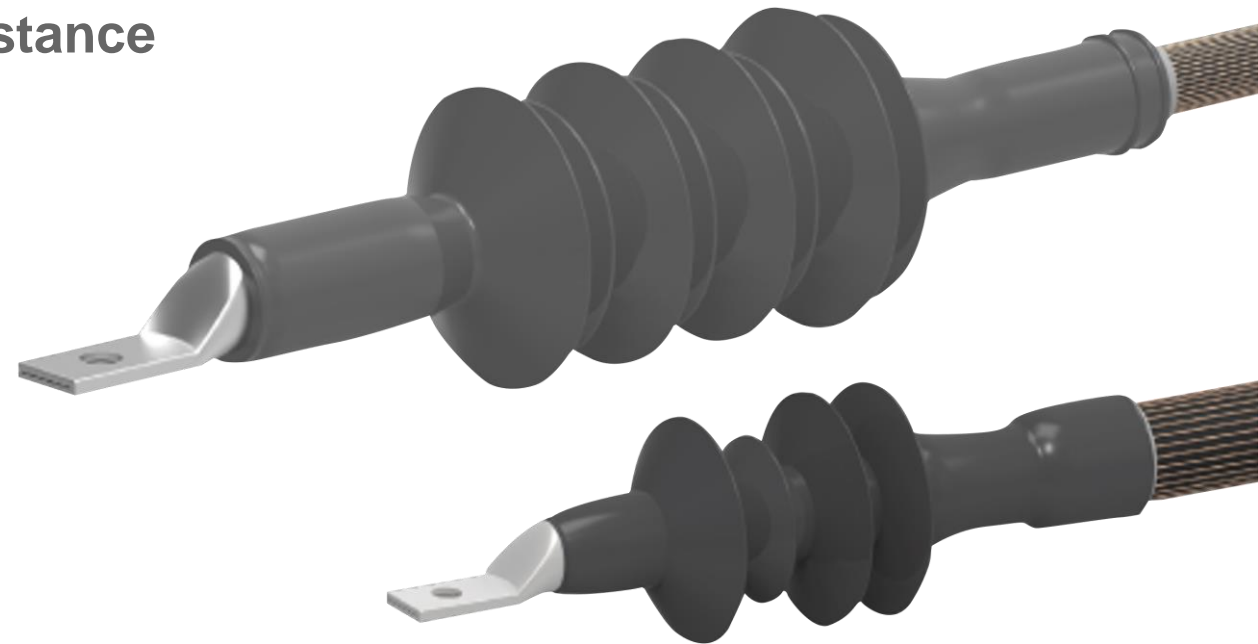
- Integrated lug sealing mastic and **hi-K mastic for electrical stress relief**
- **Outstanding weathering, UV and ozone resistance**, chemical-resistant and fungus-resistant
- **Hydrophobic silicone** material to repel water
- Nominal use range: **15kV (#2 – 250 MCM)**



New - Product Line Extension

CSTO-351 Termination - 35kV (#1 – 1/0AWG)

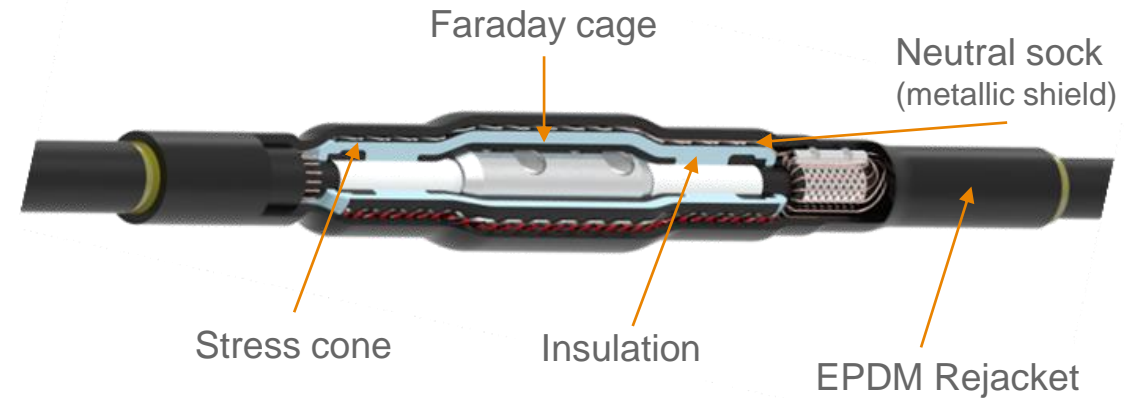
- **Extra-long, integrated geometric stress control** and void-filling mastic to reduce termination positioning errors
- **Outstanding weathering, UV and ozone resistance**
Chemical-resistant and fungus-resistant
- **Hydrophobic silicone** material to repel water
- Nominal use range: **35kV (#1 – 1/0 AWG)**



TE Raychem Cold Shrink Joints (CSJ)

CSJA All-in-One and CSJ-SR Separate Rejacket

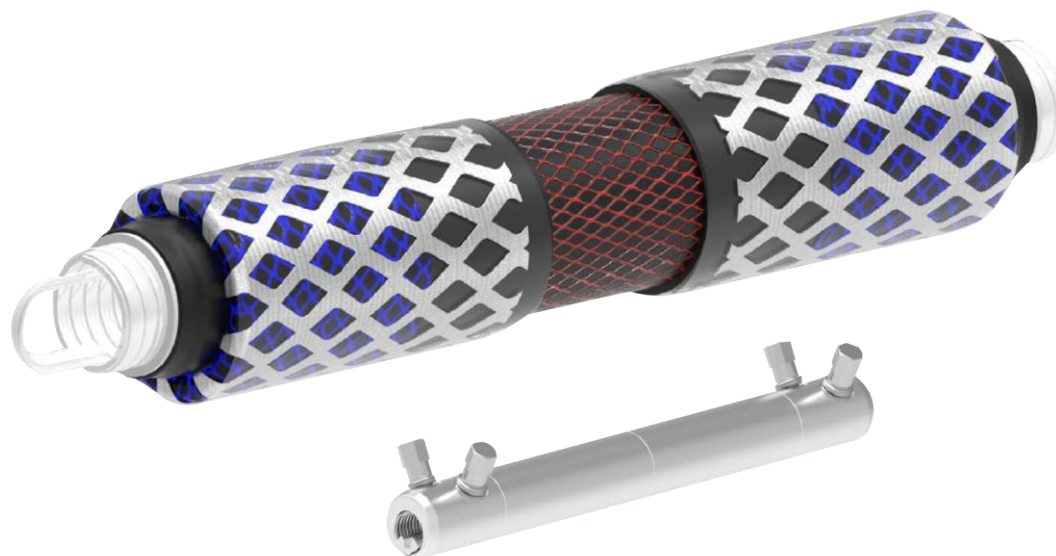
- **CSJA – All-in-One design** combines the silicone material body on spiral holdout with integrated geometrical stress cone and faraday cage together with the metallic shield and rejacketing integrated onto a single holdout.
- **CSJ-SR – Separate Rejacket design** utilizes the same guidelines as the CSJA, with one distinct difference – we use a two-holdout delivery system, allowing access and connectivity of the cable's full neutrals to pass under the rejacket.
- **From #2 up to 1500kcmil cables, 15kV, 25/28kV and 35kV**



New - Product Line Extension

CSJUR-S URD Repair Joint - 25kV (#2 – 4/0AWG)

- Innovative and reliable CSJUR-S Repair - **Eliminates URD Dutchman splices.**
- Expanded length of insulation and sealing bodies to accommodate a longer repair connector, can be ordered with our ASBSD 9.25" long shear bolt.
- Silicone body with integrated stress cone, faraday cage, shielding and EPDM rejacketing - **All in One design.**



CSJU



URD Portfolio

CSJU-S

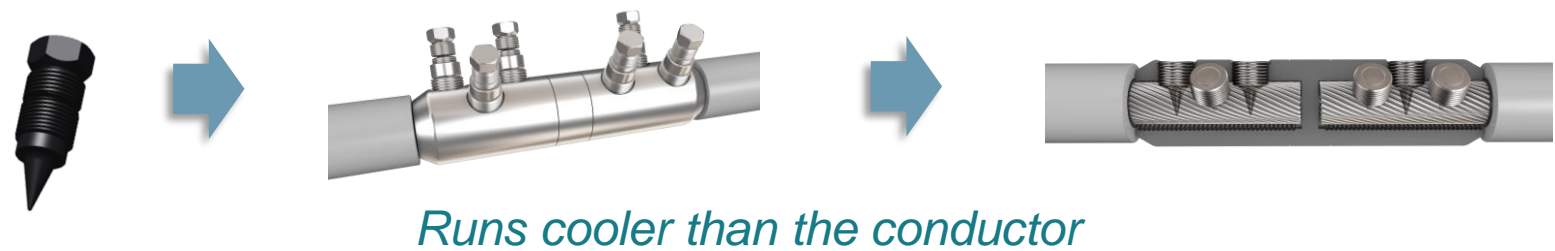




Next-Generation CSJ

TE Raychem Cold Shrink Joint - *Launching 2024*

Next generation mechanical shear bolt connector utilizes patented, penetrating bolt tips which pierce into the cable conductor, ensuring better thermal conductivity.



Next Generation CSJ cold shrink joint combines a better split-resistant silicone material along with a re-engineered ASBSH shear bolt connector.



EVERY CONNECTION COUNTS

