

Cold Shrink Joints for Power Cables up to 42kV



Features & Benefits

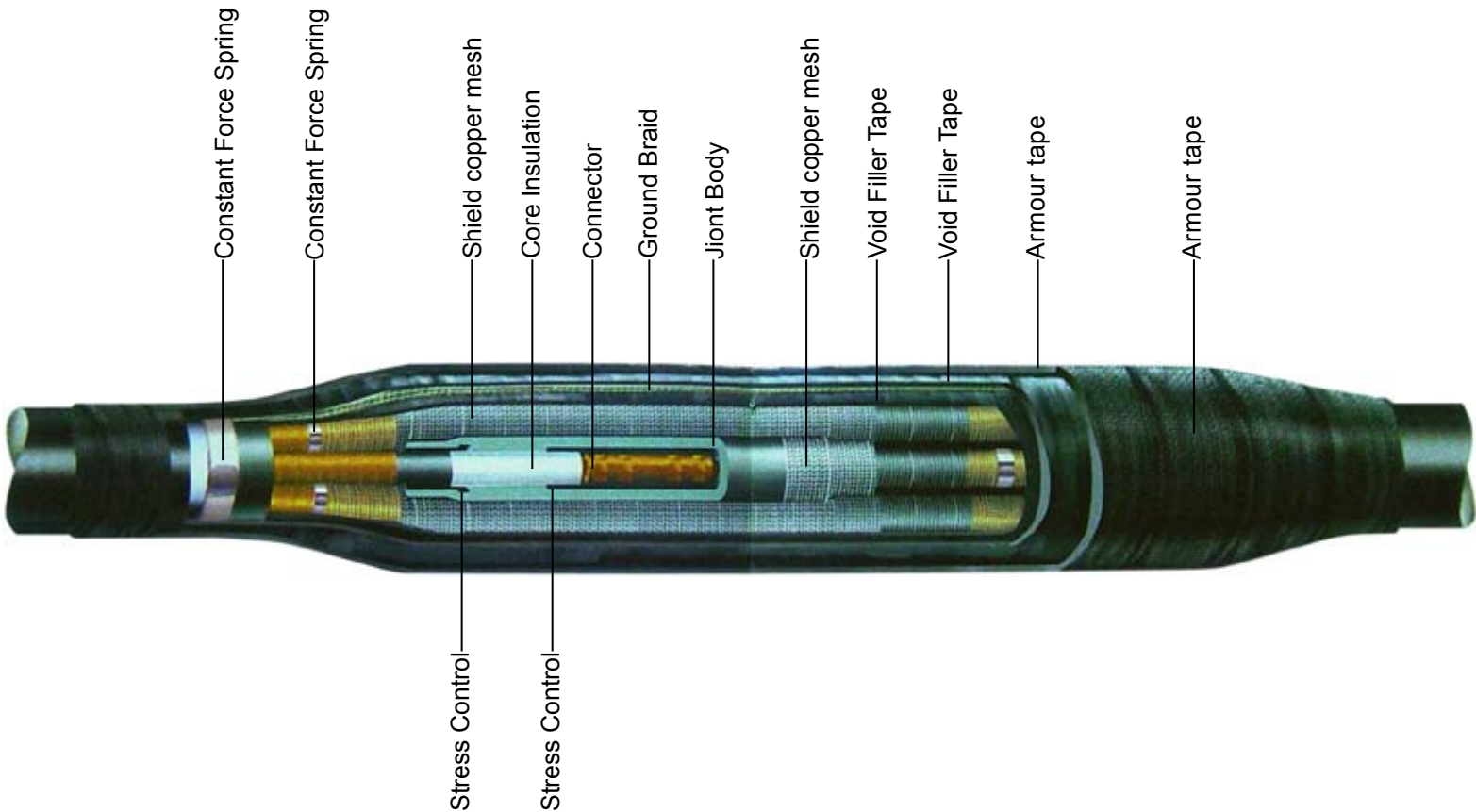
- High performance Silicone Rubber Material Assures Long-term Reliability
- Compact design with integrated conductive geometrical stress cones
- Few components, Light weight
- Pre-expanded and assembled on a removable supporting plastic core, easy to install without special tools or torches, time saving
- Seals tight, retains its resiliency and pressure even after years of aging and exposure
- High reliability, Stable in a wide temperature range
 1. Naturally automatic hydrophobicity recovery, durable water rejection
 2. UV stability, weather and aging resistance
 3. Flame retardant, self-extinguishing, heat resistant
 4. Super antipollution performance
 5. Superior corona and tracking resistance,
- Multi range application, one version can be used for various conductor cross sections.
- Environmentally friendly
- Meet GB/T 12706-4
(equal to IEC 60502-4, IEEE 404 and European CENELEC HD629.) requirements

Applications:

- Provides electrical stress control of the screen cut area and the connector area for the cable connection;
- Provides complete external leakage insulation between the cable conductor(s) and ground;
- Provide a tight seal, ensures a permanent, durable environmental seal and insulation

General

CIAC Cold Shrink Joint offers a reliable, fast and easy-to-install jointing system to assure and maintain high network reliability, and can help you reduce the time, labor and cost involved in a variety of electrical cable applications. A silicone rubber joint body with integrated geometrical stress cones provides excellent electrical stress control. CIAC Cold Shrink Joints are designed to cover a wide range of applications and to accommodate the variety of cable and conductor types in the networks. The CIAC product line covers joint needs from 0-600V to 42 kV applications, and can be used for direct burial, as well as in manholes, vaults, cable trays, and junction boxes. All CIAC cold shrink products require no special tools, flame or training to install.

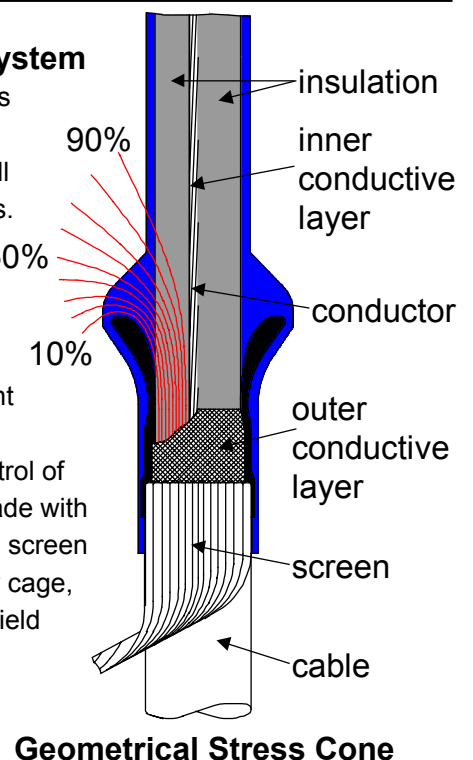


1. Unique Silicon Rubber Material for Joint Body

Silicone rubber is a kind of preferred material for cable accessories due to its excellent mechanical and electrical properties. For more than 30 years silicone has been used successfully as high-quality electrical insulation for voltages up to 400kV. Silicone rubber features high quality electrical insulation, superior corona and tracking resistance, combined with high elasticity. It facilitates multi range application, where one product version can be used for various conductor cross sections. Optimal flexibility ensures easy assembly of the accessories

2. Stress Control System

Electrical stress control is fully integrated in the silicone joint body by well defined conductive areas. Conductive cones with an exactly defined geometrical design over the screen cut area provide excellent electrical stress control. The electrical stress control of the connector area is made with an integrated conductive screen performing as a Faraday cage, and the radial electrical field can be controlled easily.



3. Shield continuity: Shield Copper Mesh

In order to keep the Shield continuity of cables, extra Shield Copper Meshes are applied around the joint to provide shielding and protection.



4. Armorcast

For strengthening cable and splices, armorcast forms a tough, durable covering that will harden in approximately half an hour. Armorcast Structural Material is a flexible fiberglass knit fabric strip that has been saturated with a black urethane resin syrup. The material is rolled and packed dry in a sealed foil envelope. Armorcast Structural Material is completely safe for use in manholes, vaults, and other hazardous environments, because no heat source is required. No flames, electric heaters, or chemicals are needed. The only thing your crews will ever have to add is water.



kit contents

Each Joint will generally consist of the Joint body (for 3-core cable there are 3 pieces per set) and some other accessories as follows:



No.	Kit Name
1	silicone rubber joint body
2	Sealing filler tape
3	Armorcast
4	Constant Force Spring
5	Ground Braid
6	Semi-Conducting Tape
7	Connector
8	Vinyl Electrical Tape
9	Shield copper mesh
10	Silicone Grease
11	Void Filler Mastic
12	Dielectric Cleaning Tissue
13	Phase Marking Tape
14	Emery Cloth
15	Steel Tape Measure
16	Glove

Selection Guide

Cold Shrink Joint up to 24kV(Um)

Product Series	Application	Cable Insulation O.D.Range (mm)	Conductor Cross Section Size Range (mm ²)		
			6/10/12 kV	8.7/15/17.5 kV	12/20/24 kV
JLS-1-31×1	Single Core Cable Joint	15-20	35-70	25-50	35
JLS-1-31×2		19-23	95-120	70-120	50-70
JLS-1-31×3		22-30	150-300	150-240	95-185
JLS-1-31×4		27-35	400-500	300-400	240-400
JLS-1-33×1	3-Core Cable Joint	15-20	35-70	25-50	35
JLS-1-33×2		19-23	95-120	70-120	50-70
JLS-1-33×3		22-30	150-300	150-240	95-185
JLS-1-33×4		27-35	400-500	300-400	240-400

Cold Shrink Joint up to 42kV(Um)

Product Series	Application	Cable Insulation O.D.Range (mm)	Conductor Cross Section Size Range (mm ²)	
			18/30/36kV	26/35/40.5 kV
JLS-1-51×1	Single Core Cable Joint	28-35	95-150	50-95
JLS-1-51×2		30-39	185-240	120-185
JLS-1-51×3		36-43	300-400	240-300
JLS-1-51×4		41-49	500-630	400-500
JLS-1-53×1	3-Core Cable Joint	28-35	95-150	50-95
JLS-1-53×2		30-39	185-240	120-185
JLS-1-53×3		36-43	300-400	240-300
JLS-1-53×4		41-49	500-630	400-500

Note: Final Determination Factor is cable insulation outer diameter.
Voltage: U₀/U/Um

