

Cold Shrink Terminations for Power Cables up to 42kV

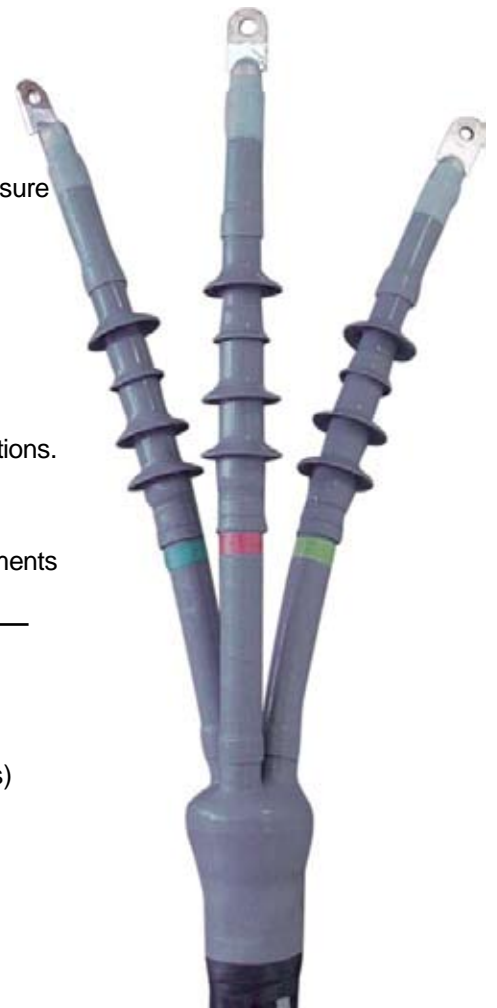


Features & Benefits

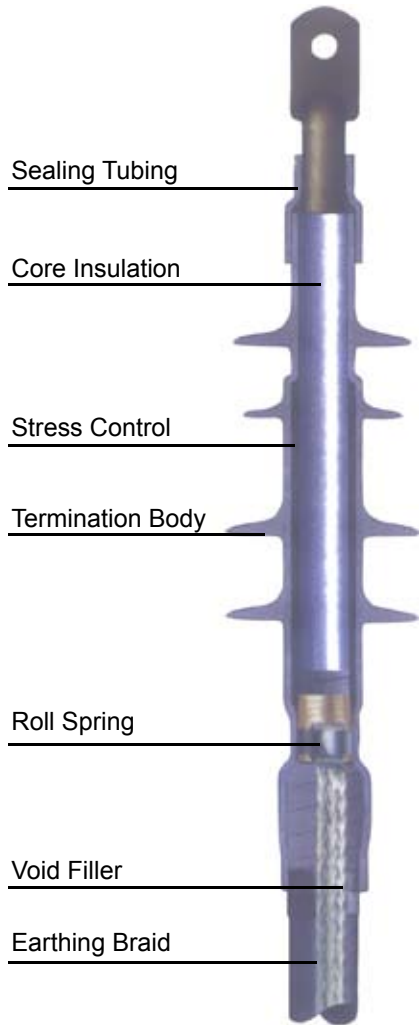
- High performance Silicone Rubber Material Assures Long-term Reliability
- Unique Hi-K Electrical Stress Control System
- Compact design with integrated sheds, Space saving
- Few components, Light weight
- Pre-expanded and assembled on a removable supporting plastic core, easy to install without special 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
(equivalent to IEC 60502-4, IEEE 48 and European CENELEC HD629.) requirements

Applications:

- Provides electrical stress control for the cable insulation shield terminus;
- Provides complete external leakage insulation between the cable conductor(s) and ground;
- Provides a seal to the end of the cable against the entrance of the external environment and maintains the operating design pressure
- Pole top applications with polymeric insulators, Polygarde surge arresters
- Switchgear or transformer applications with connector

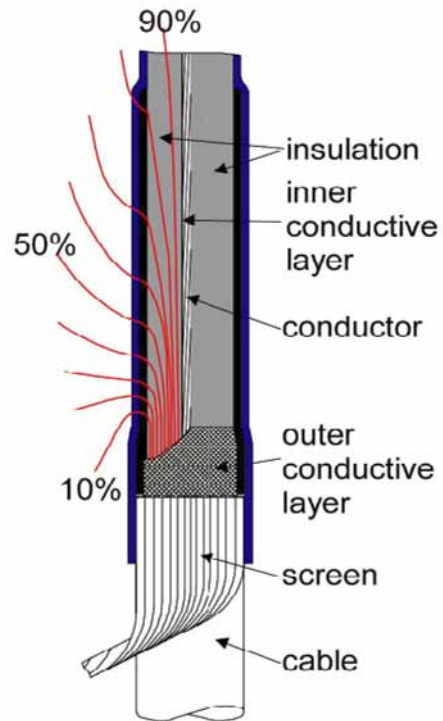


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24kV Cold Shrink Outdoor Termination

2. Stress Control System



Type of Stress Control: Refractive field control

Hi-K (high dielectric constant) Stress Control Tubing provides excellent electrical stress control which is fully integrated in the silicone termination body. Excellent high-impulse withstand performance

1. Unique Silicon Rubber Material

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

3. Excellent Resistance to Moisture Ingress

Sealing tubing is applied at the top and sealant tape is applied at the bottom of the prepared cable. The tape is self-amalgamating, track and erosion resistant. When the termination body is installed, its compressive force provides a water-tight seal preventing moisture ingress

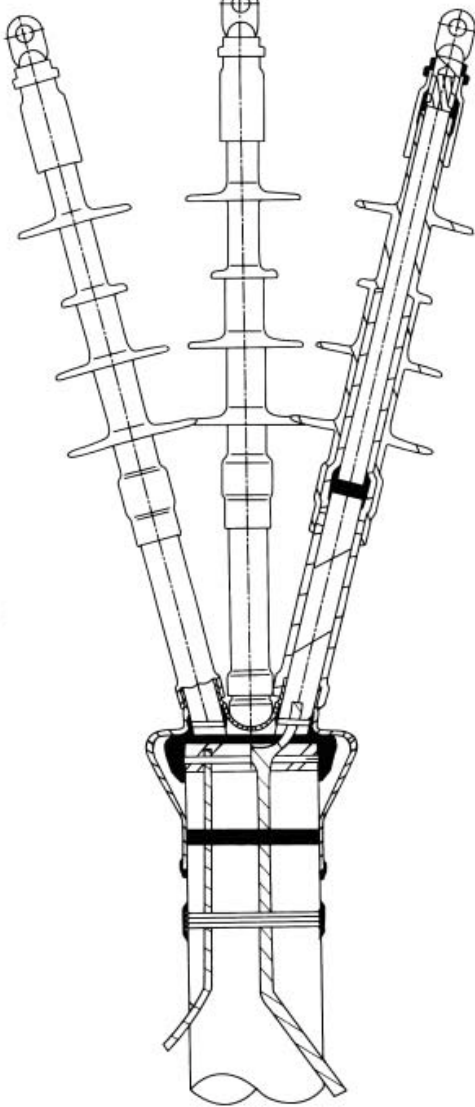
The products are fully tested to GB/T 12706-4 (equivalent to IEC 60502-4, IEEE 48 and European CENELEC HD629.) requirements.

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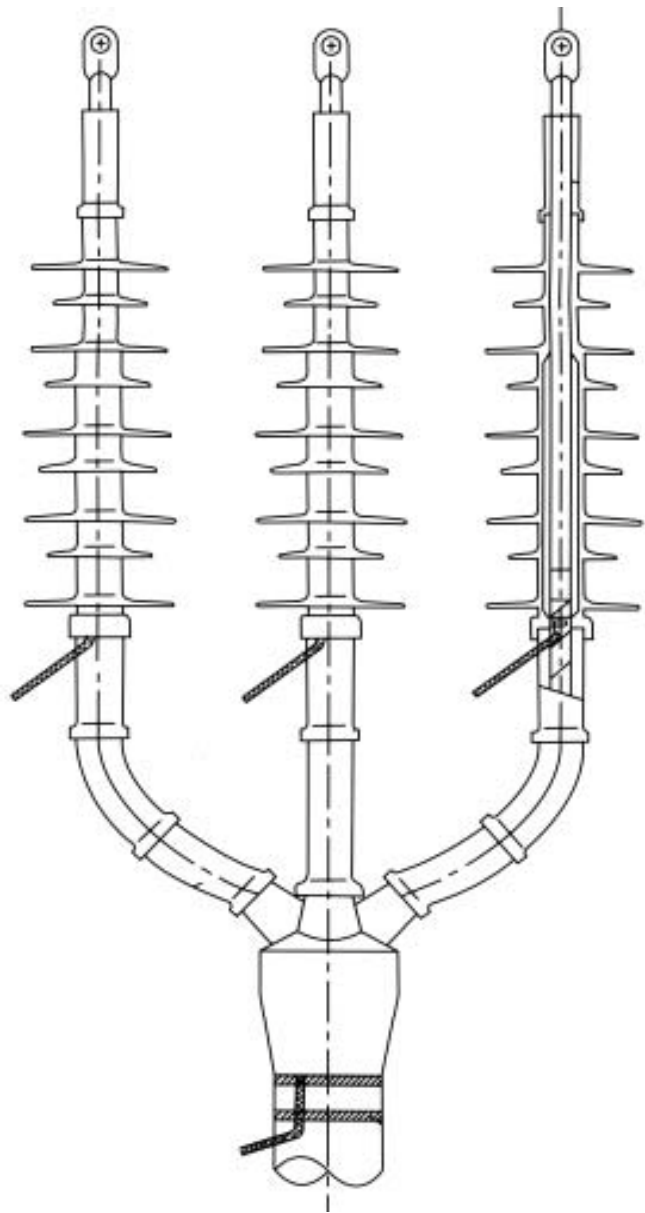
CIAC Cold Shrink Termination Family

- 1 Indoor Termination up to 12 kV
- 2 Outdoor Termination up to 12 kV
- 3 Indoor Termination up to 17.5 kV
- 4 Outdoor Termination up to 17.5 kV

- 5 Indoor Termination up to 24 kV
- 6 Outdoor Termination up to 24 kV
- 7 Indoor Termination up to 40.5kV
- 8 Outdoor Termination up to 40.5 kV



**3-Core Termination
up to 24 kV**



**3-Core Termination
up to 42 kV**

Cold Shrink Terminations Up To 24kV(Um)

Selection Table

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
NLS-1-31x1	Indoor Single Core Cable	15-20	35-70	25-50	35
NLS-1-31x2		19-23	95-150	70-120	50-70
NLS-1-31x3		22-30	185-300	150-240	95-185
NLS-1-31x4		27-35	400-500	300-400	240-400
WLS-1-31x1	Outdoor Single Core Cable	15-20	35-70	25-50	35
WLS-1-31x2		19-23	95-150	70-120	50-70
WLS-1-31x3		22-30	185-300	150-240	95-185
WLS-1-31x4		27-35	400-500	300-400	240-400
NLS-1-33x1	Indoor 3-Core Cable	15-20	35-70	25-50	35
NLS-1-33x2		19-23	95-150	70-120	50-70
NLS-1-33x3		22-30	185-300	150-240	95-185
NLS-1-33x4		27-35	400-500	300-400	240-400
WLS-1-33x1	Outdoor 3-Core Cable	15-20	35-70	25-50	35
WLS-1-33x2		19-23	95-150	70-120	50-70
WLS-1-33x3		22-30	185-300	150-240	95-185
WLS-1-33x4		27-35	400-500	300-400	240-400

Cold Shrink Terminations Up To 42kV(Um)

Selection Table

Product Series	Application	Cable Insulation O.D.Range(mm)	Conductor Cross Section Size Range (mm ²)	
			18/30/36kV	26/35/40.5 kV
NLS-1-51x1	Indoor Single Core Cable	28-35	95-185	50-95
NLS-1-51x2		32-38	240-300	120-185
NLS-1-51x3		36-43	400-500	240-300
NLS-1-51x4		41-49	630-800	400-500
WLS-1-51x1	Outdoor Single Core Cable	28-35	95-185	50-95
WLS-1-51x2		32-38	240-300	120-185
WLS-1-51x3		36-43	400-500	240-300
WLS-1-51x4		41-49	630-800	400-500
NLS-1-53x1	Indoor 3-Core Cable	28-35	95-185	50-95
NLS-1-53x2		32-38	240-300	120-185
NLS-1-53x3		36-43	400-500	240-300
NLS-1-53x4		41-49	630-800	400-500
WLS-1-53x1	Outdoor 3-Core Cable	28-35	95-185	50-95
WLS-1-53x2		32-38	240-300	120-185
WLS-1-53x3		36-43	400-500	240-300
WLS-1-53x4		41-49	630-800	400-500

Note: Final Determination Factor is cable insulation diameter.

Voltage: U0/U/Um

Cold Shrink Terminations for Power Cables up to 42kV

Kit Contents

Termination up to 24kV

Each Termination will generally consist of the termination body, stress control tubing, insulation tubing and sealing tubing (for 3-core cable there are 3 pieces per set and 1 cold shrink breakout) and some other accessories as follows (for 3-core cable termination up to 24kV):

Termination up to 42kV

Each Termination will generally consist of the termination body, insulation tubing and sealing tubing (for 3-core cable there are 3 pieces per set and 1 cold shrink breakout) and some other accessories are similar with those of 24kV



No.	Name	No.	Name
1	Electrical Tape	8	Earthing Braid
2	Vinyl Electrical Tape	9	Silicone Grease
3	Phase Marking Tape	10	Dielectric Cleaning Tissue
4	Silicone Insulating Tape	11	Emery Cloth
5	Void Filler Tape	12	Steel Tape Measure
6	Constant Force Spring	13	Adhesive Bandage
7	Semi-Conducting Tape	14	Glove