



## Insulation Enhancement Systems

**Product Description:** Transeal Silicone Conductor Cover Sleeve provide high quality electrical insulation for substation leads and jumpers. These covers are made from a non-tracking silicone material that is suitable for medium voltage outdoor environments. Use silicone rubber material, anti-aging, corrosion resistance, with good resistance to corona resistance, high temperature performance, especially suitable for the protection of the bare wire. dely used in substation protection works and railway catenary system, a significant effect in the cross-lines.

**Properties:**

- ◆ Common Name: Silicone, ASTM D-2000 Classification: FC, FE, GE, Chemical Definition: Polysiloxane.
- ◆ Temperature Range:  
Low Temperature Usage: -60° to -150° F/ -50°C to -100°C, High Temperature Usage: up to 480° F | up to 250°C
- ◆ Tensile Strength: Tensile Range: 200-1500 P.S.I. Elongation: 700% Maximum
- ◆ Excellent mechanical properties (high tear strength, high elongation).
- ◆ Additional Properties: Aging Weather - Sunlight: Excellent, Adhesion to Metals: Good
- ◆ Durometer (Hardness) Range: 30-90 Shore A, Compression Set: Good, Resilience/Rebound: Good
- ◆ Flame retardant, will not ignite easily,  
Some products received UL94 V-0 certification according to the UL94 (USA) standards for flammability classification.
- ◆ Repels water & forms tight seals, Good excellent insulation properties
- ◆ Excellent resistance to attack by oxygen, ozone and sunlight.
- ◆ Readily resistant to electromagnetic and particle radiation (UV, alpha, beta and gamma rays)

**Product Features:** Silicone Rubber

Excellent ozone resistance  
Good conformability  
Voltage class: 10KV, 35KV  
Increased creepage distance  
Simple, quick, tool free and wrap around installation.

Excellent UV resistance

Good dielectric strength  
Munsel Grey (sky blue) color  
110KV, 220KV.  
Easy field installation

Excellent arc resistance

Good cold weather installation  
Brick red, Wide colour spectrum  
Longitudinal Bias Cut  
Service life 20+years

**TECHNICAL DATA**

S.No	Properties	Unit	Standard Data	Test Results
1	Electrical strength test	KV /mm	≥ 20	22
2	Volume Resistivity	Ω-cm	≥ 1×10 <sup>14</sup>	2×10 <sup>14</sup>
3	Dielectric Constant		2 or 3	2.3
4	Shore Hardness Mechanical Properties			
5.1	Before heat ageing Tensile Strength	Mpa	≥ 4.0	5.5
	Before heat ageing Elongation at break	%	≥ 200	243
5.2	After Heat ageing (180°C, 7d)	%	±30	13
	Tensile Strength Change Elongation Change	%	±30	-22
6	Low Temperature Elongation (-15°C, 2h)	%	≥20	190
7	Low Temperature Flexibility (-50°C, 4h)	-	No Cracks	No Cracks
8	High Temperature Crack Resistance(155°C, 2h )	-	No Cracks	No Cracks

**VOLTAGE RATINGS**

Voltage (KV)	≤10KV	≤35KV	≤110KV	≤220KV
Thickness	2.0mm	2.7mm	4.0mm	6.0mm

