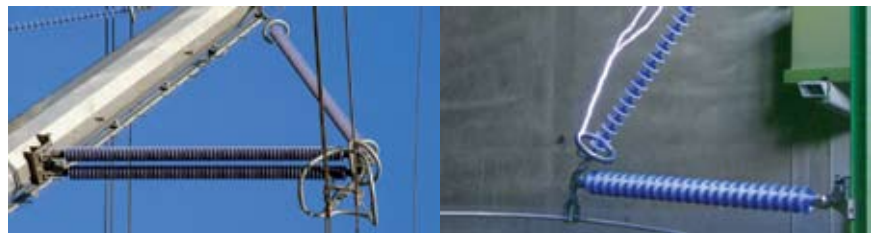


## COMPOSITE INSULATING CROSSARMS

HTV Silicone Rubber, Generation III  
 Modular System  
 High Strength Solid Epoxy FRP Rod  
**VOLTAGE CLASS:** 1 – 550 kV (>550kV in parallel post arrangements)  
**PRODUCT STANDARDS:** IEC 61952, IEC 61109, ANSI C29.17, ANSI C29.18  
**EXPERIENCE:** 40 years

**LITERATURE:**

IEEE Application Guide for Braced High Voltage Insulator Assemblies, Lightning & Insulator Subcommittee, IEEE Task Force 15.09.09.07



**MAIN ADVANTAGES:**

- Enables Compact OHTL Design
- Reduced Right of Way
- Braced Applications offer Extra High Strength
- Superior Pollution Performance (Hydrophobicity Transfer Mechanism)
- Earthquake Resistant
- Vandalism Proof
- Fail-Safe Arrangements (Bendable Bases)
- Able to withstand Extreme Dynamic and Impact Loads
- Light Weight: Easy Transport, Handling, Installation
- Flexible in Design (Modular System)
- Technology proven since more than 40 years

**REFERENCES:**

- 69-230 kV USA, various utilities
- 420 kV ESKOM Compact Line “Palmiet-Stikkland“ (braced twin post design)
- 123 kV SEC, Saudi Arabia
- 145-245 kV Iberdrola, Spain
- 123 kV CEGEDEL, Luxembourg
- 123 kV PSE, Poland
- 24-36 kV ENDESA, Spain

**DESIGNS:**

Core Ø	Pollution Classes*	Maximum Cantilever Moment**	Um***	
[mm]	[inch]	[SCD, IEC 60815]	[kV]	
45.0	1.75	12-31 mm/kV	Braced Post (Bendable&Fix), Horizontal V	72.5
63.5	2.5	12-31 mm/kV	Braced Post (Bendable&Fix), Horizontal V	245
76.2	3.0	12-31 mm/kV	Braced Post (Bendable&Fix), Horizontal V	300
88.9	3.5	12-31 mm/kV	Braced Post (Bendable&Fix), Horizontal V	420
101.6	4.0	12-31 mm/kV	Braced Post (Bendable&Fix), Horizontal V	550

\* higher specific creepage distance available, e.g. 40 mm/kV  
 \*\* the maximum admissible mechanical load depends on the arrangement of the base of the post  
 \*\*\* typical max. system voltage for single unit (single post) arrangement

**POST BASE ATTACHMENTS:**

- Horizontal V
- Braced Post Bendable Base
- Braced Post Fixed Bases

**SHED / HOUSING PROFILES:**

smooth sheds, underrib sheds  
 all profiles in accordance with IEC TS 60815-3