

# Dry GIS and Transformer Terminations



G&W's Python® SSC style transmission terminations are designed for gas insulated substation and transformer applications on extruded dielectric cable systems rated up to 145kV IEC (138kV IEEE).

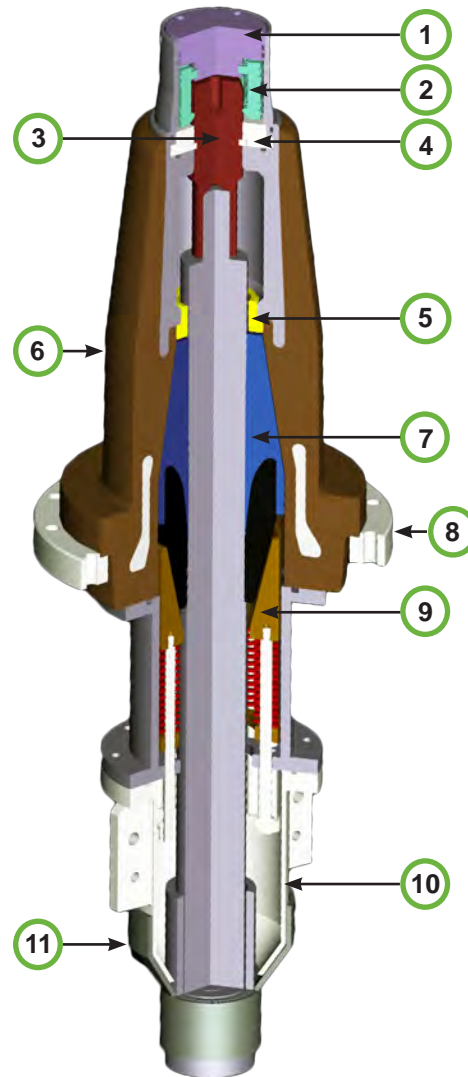
## FEATURES

- Pressure tight epoxy socket insulator
- Prefabricated silicone rubber stress cone
- Dry type design, no oil filling of the termination required
- Dimensions meet the requirements of IEC 62271-209
- Third party type tested per IEC 60840
- 230kV is type tested per IEC 62067
- Suitable for GIS applications through 230kV and transformer (oil-immersed) applications through 170kV IEC (161kV IEEE)
- Application range is 240mm<sup>2</sup> - 2500mm<sup>2</sup> XLPE cable

## STANDARD COMPONENTS

1. Contact Pad
2. Quick connect assembly
3. Connector
4. Connector stopper
5. Stress cone stopper
6. Epoxy Insulator
7. Premolded rubber stress cone
8. Clamping ring
9. Stress cone compression kit
10. Entrance housing
11. Heat shrink tube

Note: Standard kit also includes: grease, sandpaper, PVC tape, heat shrink seal, solder, flux, tinned copper ground braid and grounding lugs.



▲ Contact Pad per IEC 62271-209



▲ Corona Shield

## Application Range

Conductor Material	Conductor Size	Insulation Diameter**
<b>145 (138) kV</b>		
Copper	240mm <sup>2</sup> - 2000mm <sup>2</sup> (500 kcmil - 4000 kcmil)	57.5mm - 101.5mm (2.26 in. - 3.99 in.)
Aluminum	240mm <sup>2</sup> - 1200mm <sup>2</sup> * (500 kcmil - 2500 kcmil) *	
<b>170 (161) kV</b>		
Copper	240mm <sup>2</sup> - 2000mm <sup>2</sup> (500 kcmil - 4000 kcmil)	57.5mm - 101.5mm (2.26 in. - 3.99 in.)
Aluminum	240mm <sup>2</sup> - 1200mm <sup>2</sup> * (500 kcmil - 2500 kcmil) *	
<b>245 (230) kV</b>		
Copper	400mm <sup>2</sup> - 2500mm <sup>2</sup> (750 kcmil - 5000 kcmil)	76.5mm - 116.5mm (3.01 in. - 4.59 in.)
Aluminum	400mm <sup>2</sup> - 1600mm <sup>2</sup> * (750 kcmil - 3200 kcmil) *	

\* Aluminum conductors larger than 1200mm<sup>2</sup> (2500 kcmil) may require special conductor connection provisions.

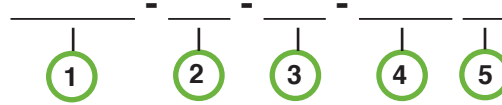
\*\*Contact your G&W representative for additional cable sizes.

# Dry GIS and Transformer Terminations

## CATALOG NUMBER BUILDER

Use the chart below to build your G&W catalog number. This number should be used for all inquiries and quote requests. In addition, the following cable information is required to process your order:

1. Conductor size and O.D. of conductor (nominal and max)
2. Insulation O.D. (min and max)
3. Insulation shield O.D. (min and max)
4. Jacket O.D. (nominal and max)
5. Cable construction details with metallic screen type and fault current rating.



### 1 System Voltage

Rated Voltage kV (IEC)	Rated Voltage kV (IEEE)	BIL (kV)	Code
145	138	650	<b>SSC140</b>
170	161	750	<b>SSC150</b>
245	230	1050	<b>SSC160</b>

### 2 Connection Type

Description	Code
Stem Connector	<b>X</b>
Contact Pad per IEC 62271-209	<b>SF</b>

### 3 Corona Shield Option

Description	Code
None	<b>X</b>
Corona Shield	<b>CS</b>

### 4 Conductor Size (See application range chart, Page 12)

Size mm <sup>2</sup>	Code	kcmil	Code
240	<b>240M</b>	500	<b>500K</b>
300	<b>300M</b>	750	<b>750K</b>
400	<b>400M</b>	1000	<b>1000K</b>
500	<b>500M</b>	1250	<b>1250K</b>
630	<b>630M</b>	1500	<b>1500K</b>
800	<b>800M</b>	1750	<b>1750K</b>
1000	<b>1000M</b>	2000	<b>2000K</b>
1200	<b>1200M</b>	2500	<b>2500K</b>
1400	<b>1400M</b>	3000	<b>3000K</b>
1600	<b>1600M</b>	5000	<b>5000K</b>
1800	<b>1800M</b>		
2000	<b>2000M</b>		
2500	<b>2500M</b>		

### 5 Conductor Material

Material	Code
Copper	<b>C</b>
Aluminum	<b>A</b>

### Ship Weight

Catalog Prefix	Approximate Ship Weight
<b>SSC140</b>	90 kg (199 lbs)
<b>SSC150</b>	90 kg (199 lbs)
<b>SSC160</b>	110 kg (243 lbs)

### EXAMPLE :

#### **SSC140-SF-X-630MC**

145kV termination with IEC 62271-209 contact pad for 630mm<sup>2</sup> copper conductor.



DIVISIÓN DE EQUIPOS E INFRAESTRUCTURA PARA SERVICIOS DE ENERGÍA ELÉCTRICA

www.sejiroyazawaiwai.com  
info@sejiroyazawaiwai.com