

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).

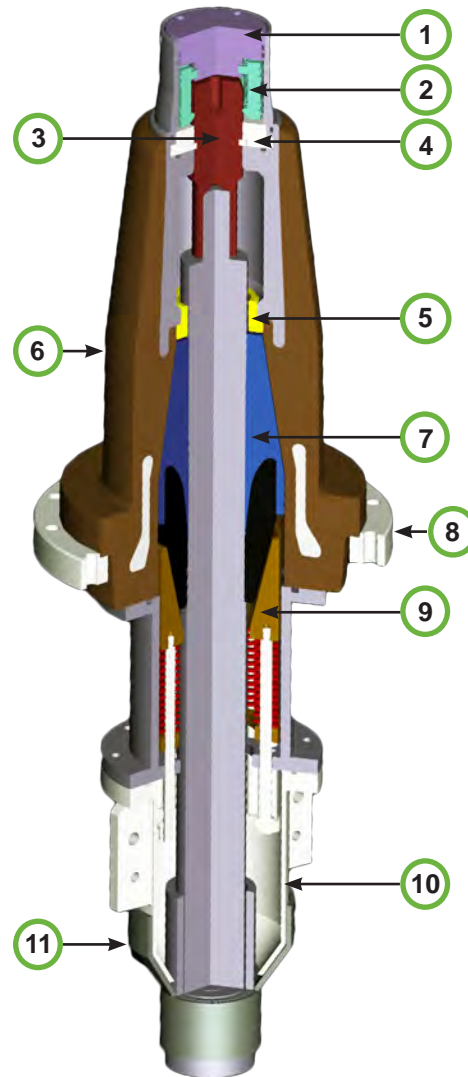
FEATURES

- 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 240mm² - 2500mm² 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**
145 (138) kV		
Copper	240mm ² - 2000mm ² (500 kcmil - 4000 kcmil)	57.5mm - 101.5mm (2.26 in. - 3.99 in.)
Aluminum	240mm ² - 1200mm ² * (500 kcmil - 2500 kcmil) *	
170 (161) kV		
Copper	240mm ² - 2000mm ² (500 kcmil - 4000 kcmil)	57.5mm - 101.5mm (2.26 in. - 3.99 in.)
Aluminum	240mm ² - 1200mm ² * (500 kcmil - 2500 kcmil) *	
245 (230) kV		
Copper	400mm ² - 2500mm ² (750 kcmil - 5000 kcmil)	76.5mm - 116.5mm (3.01 in. - 4.59 in.)
Aluminum	400mm ² - 1600mm ² * (750 kcmil - 3200 kcmil) *	

* Aluminum conductors larger than 1200mm² (2500 kcmil) may require special conductor connection provisions.

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

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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	SSC140
170	161	750	SSC150
245	230	1050	SSC160

2 Connection Type

Description	Code
Stem Connector	X
Contact Pad per IEC 62271-209	SF

3 Corona Shield Option

Description	Code
None	X
Corona Shield	CS

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

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

5 Conductor Material

Material	Code
Copper	C
Aluminum	A

Ship Weight

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

EXAMPLE:

SSC140-SF-X-630MC

145kV termination with IEC 62271-209 contact pad for 630mm² copper conductor.