

138kV and 230kv Plug-In/Plug-Out GIS Termination

Frequently Asked Questions (FAQ)

What is plug-in/plug-out termination?

This termination is used as a connection to GIS (Gas Insulated Substation) and transformers in transmission extruded solid dielectric cable systems. The termination can be sold as components (nosecone and plug) or a full termination kit. This component selling method is attractive to equipment manufacturers as they can install the nosecone at the factory for testing purposes.

1. What is the official cable taking range?

The cable taking range for the 138kV SSC140 is up to 1200mm² (2500kcmil) cables with an insulation range of 57.5mm - 91.5mm.

The cable taking range for the 230kV SSC160 is up to 1600mm² (3200kcmil) cables with an insulation range of 73mm - 108mm.

2. Where are these terminations made?

The molding of these products is done at G&W Electric Shanghai. The product can also be engineered, inspected, and kitted at either G&W Electric USA or G&W Electric Shanghai. Technical support can come from both locations as well.

3. Can I use your plug with another company's nose cone?

Unfortunately, plugs and nosecones are not interchangeable between manufacturers.

4. What solutions are available for sealing the nose cone off for testing?

G&W Electric offers sealing plates for sealing off the nosecone.

5. Why did G&W Electric not test to IEEE48?

AEIC CS-9 specifically calls out IEC testing for GIS terminations, rather than IEEE48 for testing purposes. G&W Electric chose to test to meet the needs of a majority of our customers.

6. Can I use this termination to retrofit my GIS designed to IEC 60859?

Yes, an extension adaptor can be used to meet GIS designed to IEC 60859.

7. Does this termination meet IEEE1300?

Yes, the dimensions specified are identical to IEC 62271-209.

