Engineered to order. Built to last.

Universal Splicing System

The Universal Splicing System is a separable cable connecting system that is compatible with extruded (XLPE and EPR) single conductor cable. The U-Splice system is exclusive to G&W and provides an incredibly versatile method of splicing, terminating and tapping similar and non-similar cables up to 25kV. The modular design of the splice components permits assembly into straight, 2-way, 3-way wye or tee, up to 5-way configurations. The method of assembly permits easy field modifications and add-on capability if additional taps are required.

Application

15kV and 25kV Rated Versions.
Conductors: #4 AWG through 1000 kcmil
Copper or aluminum conductors
Insulation: XLPE, EPR .64 to 1.83 inches (16-46mm) diameter
Jacket O.D.: 2.40 inches (60.9mm) max
The splices are ideal for manhole or direct buried cable installations. Modules can be connected 90 degrees apart for installations with a minimum of space available.

Features/ Benefits

Versatility - The modular splice design permits easy joining of dissimilar conductor sizes and materials without special treatments and provides a simple means of conversion from one splice configuration to another. Splices can be easily disconnected and fitted with deadend caps for fast cable sectionalizing if required. Additional cables can be easily joined years after the initial installation without destroying the previously spliced cable ends.

Reliability - Epoxy splice bodies are highly resistant to oils and moisture providing maximum reliability. Outer body surfaces are metal coated assuring ground potential for dead-front construction. All metal parts are made of either silicon bronze or stainless steel for maximum corrosion resistance.

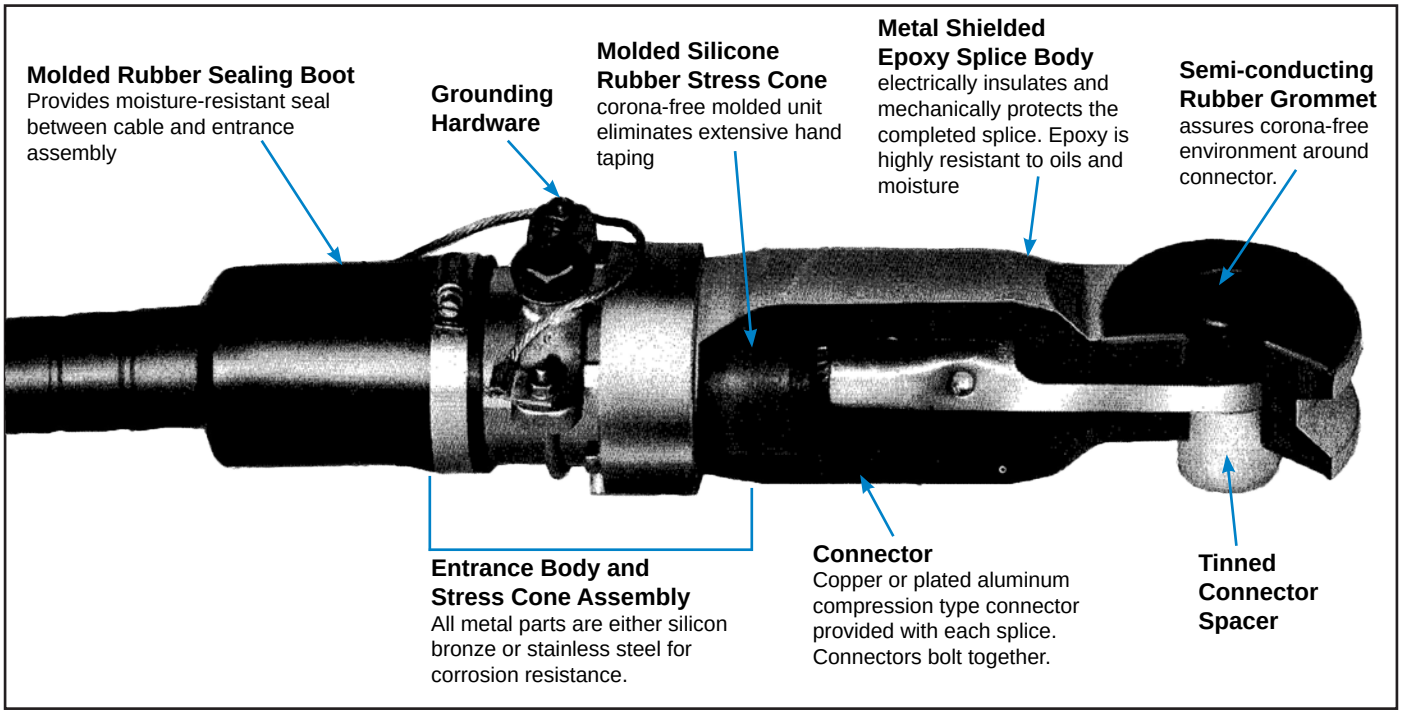
Installation Ease - The modular construction of G&W's Universal splice permits the installer to work on each cable end separately. All cable ends are then simply stacked and bolted together. Complete illustrated instructions help assure a proper, easy to follow installation procedure.

Quick, reliable stress control - A prefabricated insulating stress relief cone eliminates extensive hand taping and field assembly errors. Made from a flexible silicone sponge material, the stress cone will accommodate a large range of cable sizes and permit cable expansion and contraction without exerting excessive pressure on the cable insulation wall. The stress cone is highly resistant to oils and moisture.

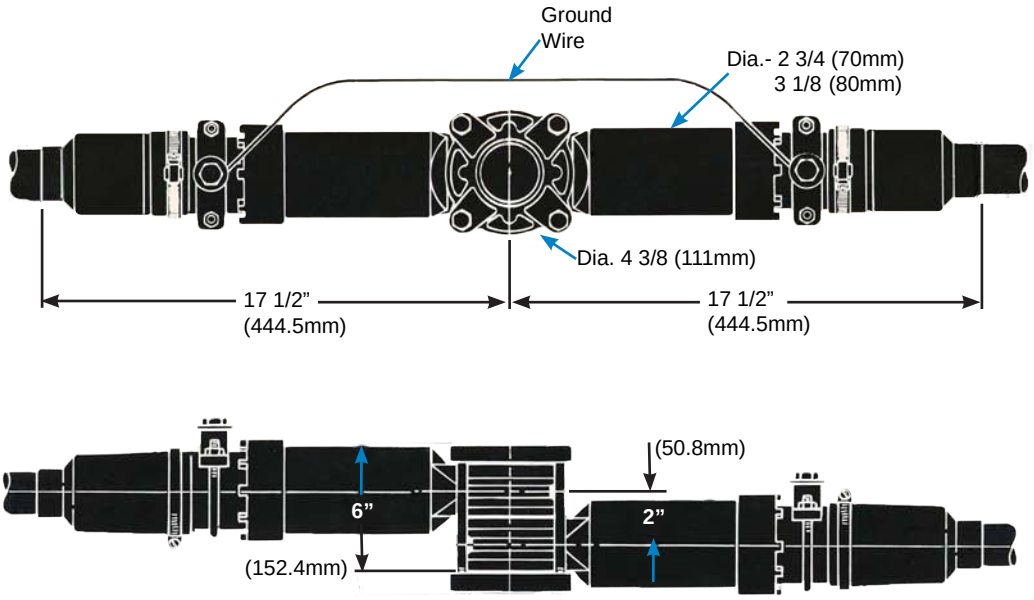
Corona-free connector chamber - Internal connector chamber surfaces are semi-conducting assuring a corona-free environmental around the connector.

Fully tested - Units are 100% factory tested to assure proper performance and long service life.

Convenient, protective packaging - All splice components are shrink wrapped for protection from the environment and easy identification of all splice parts.



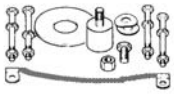
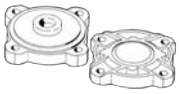
Approximate Dimensions



Electrical Specifications

Electrical Characteristics	15kV	25kV
Line to ground- Max Voltage, kV	9.5	16.0
Impulse- 1.2 x 50 Microsec Wave; kV BIL	110	125
Corona Ext.- Min. Line to ground, kV	14	19
Continuous Current- A, RMS	Same as cable	Same as cable
Withstand- 6 hours, 60 HZ, kV	36	53
Withstand- 15 minute, DC, kV	55	75
Momentary- 12 cycle, KA, ASYM, RMS	40	40

The following parts/kits may be ordered separately.

Product	Code	Description
	**SM**	**Spacer module only.**
	**DCE 1**	**Dead End Kit-** Required for energizing or testing dead-ended splice or bushing cable ends. Includes HK1 hardware kit and EC1 end caps.
	**HK**	**Hardware Kit-** Includes hardware, pad gaskets, ground braid and tinned connector spacer(s).
	**EC**	**End Cap Kit-** Includes (2) end caps with pad gaskets and rubber grommets.

ORDERING INFORMATION

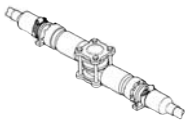
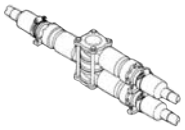
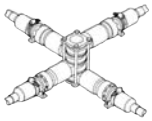
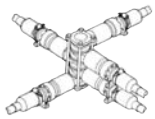
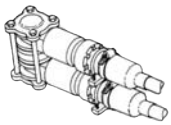
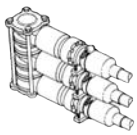
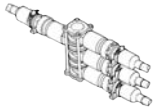
The following information is needed for ordering:

a) Specify system voltage (15 or 25kV)

b) Provide a complete cable description including conductor material, conductor shape, conductor size, insulation material, insulation O.D., insulation shield type, metallic shielding type and jacket O.D.

c) Specify stacking configuration required (i.e. CE-CE, CE-CE-CE, etc.) See table below.

Stacking Configurations

Product	Code	Description
	**CE**	HK kit or end caps not included.
	**CE-CE**	Includes HK2 hardware kit and EC1 end caps.
	**CE-CE-CE**	Includes HK3 hardware kit and EC1 end caps.
	**CE-CE-CE-CE**	Includes HK4 hardware kit and EC1 end caps.
	**CE-CE-CE-CE-CE**	Includes HK5 hardware kit and EC1 end caps.
	**CE-SM-CE**	Includes HK2S hardware kit and EC1 end caps.
	**CE-SM-CE-SM-CE**	Includes HK3S hardware kit and EC1 end caps.
	**CE-SM-CE-CE-CE**	Includes HK4S hardware kit and EC1 end caps.