

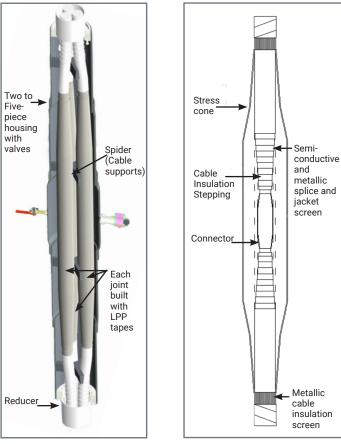
Joints for Pipe-Type Cables with LPP Insulation up to 345kV

G&W Electric's LPP joints are used to connect two 3-core pipe-type cables up to 345kV with fluid filled system nominal pressures up to 400 psi.

Every joint is custom designed and engineered for the specific cable, system requirements, and field constraints. Kits are supplied with all parts and materials required to construct the joint in the field.

345kV rated joints can fit in typical 18' long by 6' wide manhole. For details and more available layout options contact your G&W representative.

These joints are qualified per IEEE 404-12 at 345kV system voltage level. Additional tests were performed at reduced oil pressure of 100 psi and verify the design margins of the system.



Configuration of 34	5kV 3-c Joint
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Design of the joint cores

System Voltage	BIL Rating
138 kV	650 kV
230 kV	1050 kV
345 kV	1300 kV

Characteristics		
Nominal System Voltage	345kV	
Maximum System Voltage	362kV	
Rated Line to Ground	199.2kV	
Basic Impulse Level (BIL)	1300kV	
AC withstand 24 hours	500kV	
Standard	IEEE 404-12 (Table 4)	
Cable Range	Suitable for Cables up to 3000KCM	
Continuous Current	Same as Cable	
Short Circuit Current	Same as Cable	



345kV LPP Joint

CASING

Casings are fabricated of carbon steel pipe, which is designed to withstand operating and transient pressures of a fluid filled pipe-type system. The telescoping design aids in reducing the length required for installation and space of the manhole.

INSULATION

Insulation of the joint body is built with provided oilimpregnated flat LPP tapes with low dissipation factor and high breakdown strength, which enables for smaller joint diameter and length.

ORDERING INFORMATION

For efficient ordering, please provide the following information:

- System voltage
- Cable specification
- Cable pipe material, diameter and thickness
- Fluid filled system pressure rating
- Manhole size