

Date: 2/21/2020

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Number:

MacLean Power Systems is proud to announce a new Fiberglass Distribution Phase Spacer with superior benefits over traditional offerings.

MPS's latest fiberglass distribution phase spacer design is an efficient all-in-one solution which doesn't require additional components or field assembly.

- » Corrosion resistant E-Glass solid rod fiberglass core
- » Over molded with the same proven silicone rubber formulation found in MPS transmission insulators
- » Crimped end fittings suitable for both aluminum and copper applications
- » Fully customizable lengths
- » Optional weather sheds increase strike and creep distance plus add contamination resistance

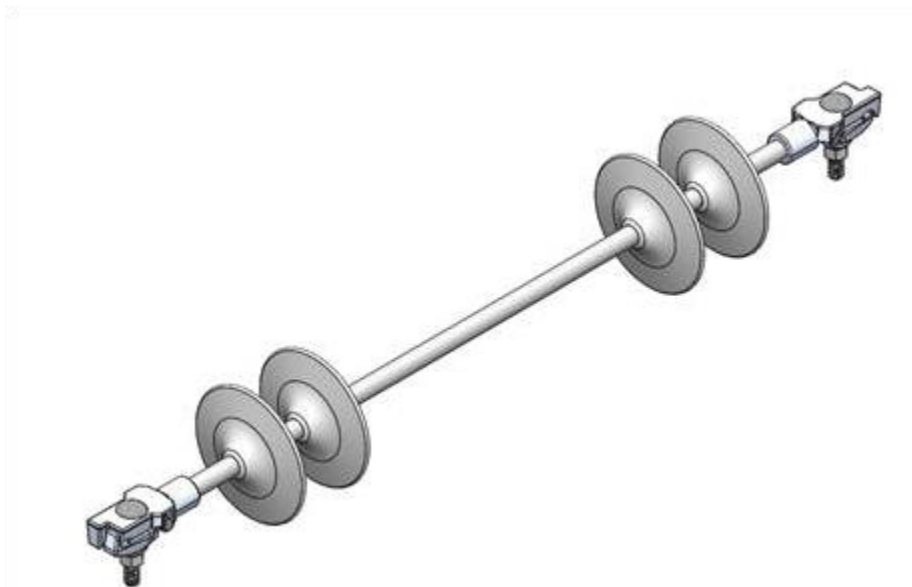


Figure 1 – MacLean Power Systems New Fiberglass Distribution Phase Spacer

Why do I need a phase spacer?

On long spans of distribution lines or depending on the environment (ice/wind loading), line galloping and sway may occur. Over time galloping may lead to increased electrical line stresses, physical wear on the conductor, and other unwanted vibrations. In certain circumstances conductors may also bump each other resulting in momentary short circuits which may cause sparks and other safety concerns, such as fires. Adding a phase spacer helps physically separate and stabilize the lines mitigating these potential issues.

Why is this new phase spacer the best solution for my application?

Other spacer solutions can be less user friendly and less efficient to work with. They may come as separate parts requiring field assembly of the individual components and may require wire ties to secure the conductors to the device. This not only takes more labor time and effort to install in the field, but also requires more parts, inventory, and overall costs. MPS's solution eliminates these hassles with a one-piece design and hot stick compatible clamp type end fittings so it's ready to install out of the box.

Pros of the New MPS Distribution Spacer Design

Efficiency | Flexibility | Safety

- One piece design
- No separate insulators required
- No ties or formed wires required
- Light weight and durable design
- Compatible with both Aluminum and Copper conductor applications
- Available in customizable lengths for any application need
- Hotstick capable and easily clamps to the conductor for installation
- Quick and easy installation means reduced labor costs, improved installation ergonomics, and safety
- Crimped end fittings
- Silicone rubber coating for contamination resistance
- Silicone shed options for increased insulation and creep distance
- Reduces required SKU counts and inventory space

Currently the clamping range covers Aluminum and Copper conductors between .125" - .398" diameters. Additional ranges are planned to be added in the future. Shed patterns and product length may be customized to suit individual application needs and electrical requirements.

Consult your MPS representative with any questions, for help specifying catalog numbers, or for any other customizations needed to accommodate your application.

Michael Valenza | Product Manager

MPS – Alabama Operations

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MPS Catalog Number: **F0 C0 C0 028 VX SS 006**
 Date: 4/25/2019 Rev: PD-1

END FITTINGS / MATERIAL

End Fitting:	Aluminum - Tin Plated	
	Clamping Range:	0.125" - 0.398"
Housing:	MPS Silicone (HTV)	Modular
Rod:	CR E-Glass	16mm
Number of Sheds:		6
Weight Estimate:	lbs	kg

DIMENSIONAL VALUES

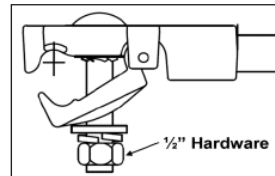
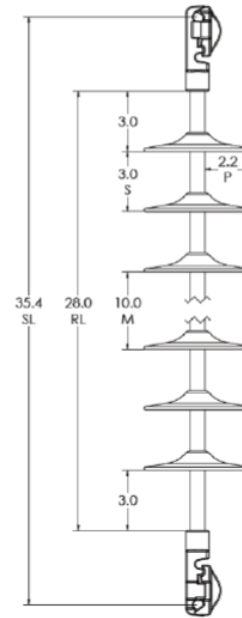
Section Length (SL):	35.4 in	899 mm
Rubber Length (RL):	28 in	711 mm
Shed Spacing (S):	3.0 in	76 mm
Shed Projection (P):	2.2 in	56 mm
Center Spacing (M):	16.0 in	406 mm
Dry Arc Distance:	29.1 in	740 mm
Leakage Distance:	51.0 in	1295 mm

ELECTRICAL VALUES

60 Hz Dry Flashover:	400 kV	Min. Withstand:	363 kV
60 Hz Wet Flashover:	360 kV	Min. Withstand:	301 kV
CIFO +	700 kV	Min. Withstand:	602 kV
CIFO -	745 kV	Min. Withstand:	646 kV

MECHANICAL VALUES

Specified Mechanical Load (SML):	1,000 lbs	4.4 kN
Routine Test Load (RTL):	500 lbs	2.2 kN



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Dimensions: Inches [millimeters]
 Note: Drawing not actual depiction of insulator appearance

Silicone Rubber Sheath & Sheds
 Complies with applicable ANSI and IEC standards.

Figure 2 – Example Catalog Number F0C0C0028VXSS004