

## SPACER SYSTEMS

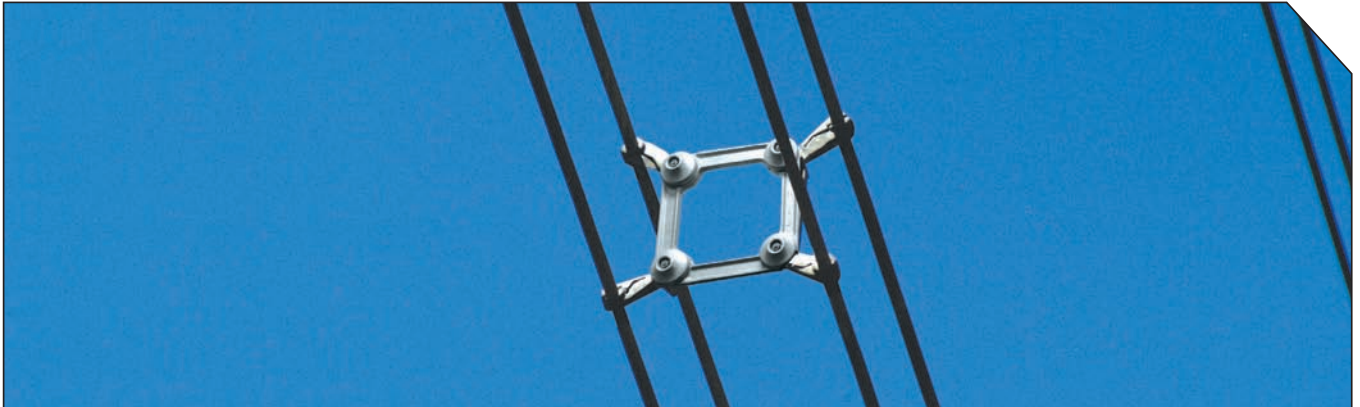
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“ PLP maintains a leadership role in the industry by continually developing, improving and testing its extensive product range. ”





## SPACER DAMPERS - GENERAL RECOMMENDATIONS



Spacer Dampers are recommended for multi-conductor bundles with industry standard spacing. The Spacer Damper is designed to withstand the forces and movements caused by transient conditions such as short circuit, differential icing, and wind loading without either causing damage to the sub conductors or sustaining damage themselves. The design accommodates both longitudinal movement of the sub conductors, vertical sag differences, as well as compressive and tensile forces.

When the Spacer Damper is installed in accordance with PLP Thailand's recommendations for sub span lengths, it constitutes a system which replaces conventional spacers and vibration dampers. Spacer Dampers are designed to control both Aeolian vibration and sub conductor oscillation to levels recognized as acceptable within the industry and to the customers expressed needs. PLP Thailand will tailor the recommendations to terrain and design parameters. Corona and RIV Spacer Dampers are designed to have a satisfactory performance commensurate with the operating voltage of the transmission line.

### **Fault Currents:**

All of PLP Thailand's Spacer Dampers are designed for a minimum compressive withstand load and follow to the IEC standard.

### **Placement:**

Due to the many factors involved in designing an effective spacer damper system, PLP Thailand should be consulted for specific recommendations on both the choice of Spacer Dampers and the placement.

### **Damping:**









Spacer Dampers can accommodate torsional clamp arm movement of plus or minus 15 degrees, conical clamp arm movement of plus or minus 8 degrees, and longitudinal movement of plus or minus ½- 1 inches (12.7-25.4mm). These are possible because of the properties of PLP's elastomeric damping elements. There are two per arm, one on each side. They are especially compounded to give long life under conditions of ozone, ultra violet light, anticipated temperature extremes, and continual conductor motion. Their ability to dampen over many years has been well established throughout the world in all types of climates.

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## SPACER / SPACER DAMPER - ASSEMBLY

For use on: ACSR, All-Aluminum, Aluminum Alloy, AWAC® Compacted, All Aluminum Compacted ACSR, ACSS (AW & TW) For Continuous Operating Temperatures up to 210° C.

Type	Spacing (mm)	Normal Conductor (mm)	High Temp Conductor (mm)	Arm/Keeper			
				Metal To Metal	Rubber	Preformed	
Twin Spacer	 PDC (B-Type)	400	23.00-34.00		X	X	
		450	23.00-34.00		X	X	
		457	23.00-34.00		X	X	
		460	23.00-34.00		X	X	
	 Substation	100	21.00-34.50		X		
		200	21.00-34.00		X		
		400	33.00-33.40		X		
	 Damper	300	28.5-29.50		X	X	
		400	21.18-33.90	17.4-28	X	X	
		450	31.50-40.50	23.7-33.9	X		
		457	35.8-36.2	26-33.9	X		
		500	31.50-41		X		
		550	40.5-41		X		
	 Rigid	200	18.00-42.00	23.7-33.9	X		
		300	22.00-29.00		X	X	
400		17.00-34.00	26.0-33.9	X	X		
450		27.10-37.00	26.0-33.9	X			
500		27-29				X	
Tri Spacer	 PDC (B-Type)	400	23.00-34.00		X	X	
		457	23.00-34.00		X	X	
Quad Specer	 PDC (B-Type)	457	23.00-34.00		X	X	
	 Damper	400	32-33		X	X	
		457	27.72-33.9		X		
		500	32.00-33.00				X
	 RIGID	300	28-29		X		
		400	23-24		X		
	457	27.7-33.9		X			

