

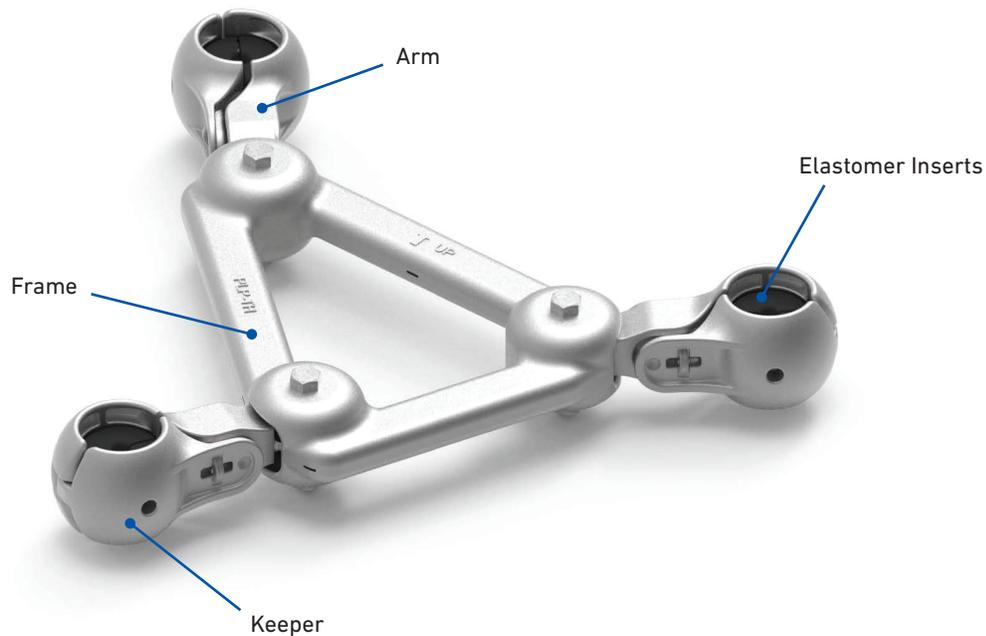
CUSHION-GRIP® SPACER DAMPER

CUSHION-GRIP Spacer Dampers for Tri, Quad, and Hex Bundles feature elastomer damping elements engineered to absorb maximum energy. This design provides resistance to conductor fatigue by eliminating the need for additional vibration dampers. Both the Type "B" and Type "C" designs employ unique damping elements which are captured in a way which assures the elastomer damping material is always in compression, providing maximum service life. The secure elastomer cushions protect the conductors from bending stresses associated with subspan oscillation and aeolian vibration.

FEATURES AND BENEFITS

- The Type B standard design meets the demanding requirements of IEC 61854 while maintaining a light overall weight and effective performance
- The Type C design features a more robust frame and damping elements, suited for application in rugged areas where traditional spacer dampers have experienced premature performance problems or failures
- Offered with three different arm closure systems: quarter turn fastener, break-away bolt, and standard bolt
- Standard version is designed for up to 125°C continuous conductor temperature (150°C two-hour emergency) and High-Temperature version (HT) is rated for up to 250°C
- For custom bundle spacing, contact PLP for details

COMPONENTS



Quarter Turn Fastener



Breakaway Bolt



Standard Bolt

SPACER DAMPER QUANTITY & PLACEMENT

- The number of spacer dampers required per span is dependent upon wind energy exposure and the cable's characteristics such as self-damping determined by the cable construction and the amount of applied tension
- A maximum sub-span length is determined, and spacer damper quantity and placements are recommended accordingly utilizing asymmetrical placement criteria

SPACER DAMPER PLACEMENT SOFTWARE

- Based upon data gathered from laboratory testing, field studies, as well as the recommendations outlined in the CIGRE report, "State of the Art Survey on Spacers and Spacer Dampers"
- Considers many input variables specific to the individual line, such as its construction, design, and local operating conditions
- Determines the recommended spacer damper quantity and optimal placement locations within the span to counter potential damage to the line system
- Available for registration at no charge to PLP customers at plpvortex.com. Contact your local representative or PLP Technical Support for more information.



ORDERING INFORMATION

- Complete the catalog number by selecting the appropriate suffix codes from the tables below

CUSHION-GRIP® Spacer Damper Catalog Number

CGSD **X** - **X** **X** **X** **X** **X**
 (Section 1) (Section 2) (Section 3) (Section 4) (Section 5) (Section 6)

Catalog Number Example: CGSDB-34534HT

CGSDB-34534HT is a Type "B" Spacer Damper for Tri Bundle application, with conductors having a diameter range of 1.304 - 1.345" (33 - 34 mm) and an 18" x 18" x 18" conductor configuration, utilizing a quarter turn fastener and high-temperature cushions.

Section 1

Frame Type Suffix Code	Frame
B	B Type
C	C Type

Section 2

Bundle Suffix Code	Bundle
3	Tri
4	Quad
6	Hex

Section 3

Conductor Spacing Suffix Code	Conductor Spacing A x B x B
45	18" x 18" x 18"
64	25.5" x 18" x 18"

Section 4

Clamp Suffix Code	Clamp Range	
	in	mm
18	0.673 - 0.713	17 - 18
19	0.714 - 0.752	18 - 19
20	0.753 - 0.791	19 - 20
21	0.792 - 0.831	20 - 21
22	0.832 - 0.870	21 - 22
23	0.871 - 0.909	22 - 23
24	0.910 - 0.949	23 - 24
25	0.950 - 0.988	24 - 25
26	0.989 - 1.028	25 - 26
27	1.029 - 1.067	26 - 27
28	1.068 - 1.106	27 - 28
29	1.107 - 1.146	28 - 29
30	1.147 - 1.185	29 - 30
31	1.186 - 1.224	30 - 31
32	1.225 - 1.264	31 - 32
33	1.265 - 1.303	32 - 33
34	1.304 - 1.345	33 - 34
35	1.346 - 1.382	34 - 35
36	1.383 - 1.421	35 - 36
37	1.422 - 1.461	36 - 37
38	1.462 - 1.500	37 - 38
39	1.501 - 1.539	38 - 39
40	1.540 - 1.579	39 - 40
41	1.580 - 1.618	40 - 41
42	1.619 - 1.657	41 - 42
43	1.658 - 1.697	42 - 43
44	1.698 - 1.736	43 - 44
45	1.737 - 1.776	44 - 45
46	1.777 - 1.821	45 - 46

Section 5

Arm Type Suffix Code	Arm Type
Leave Blank	Quarter Turn
B	Bolt
EB	Breakaway Bolt

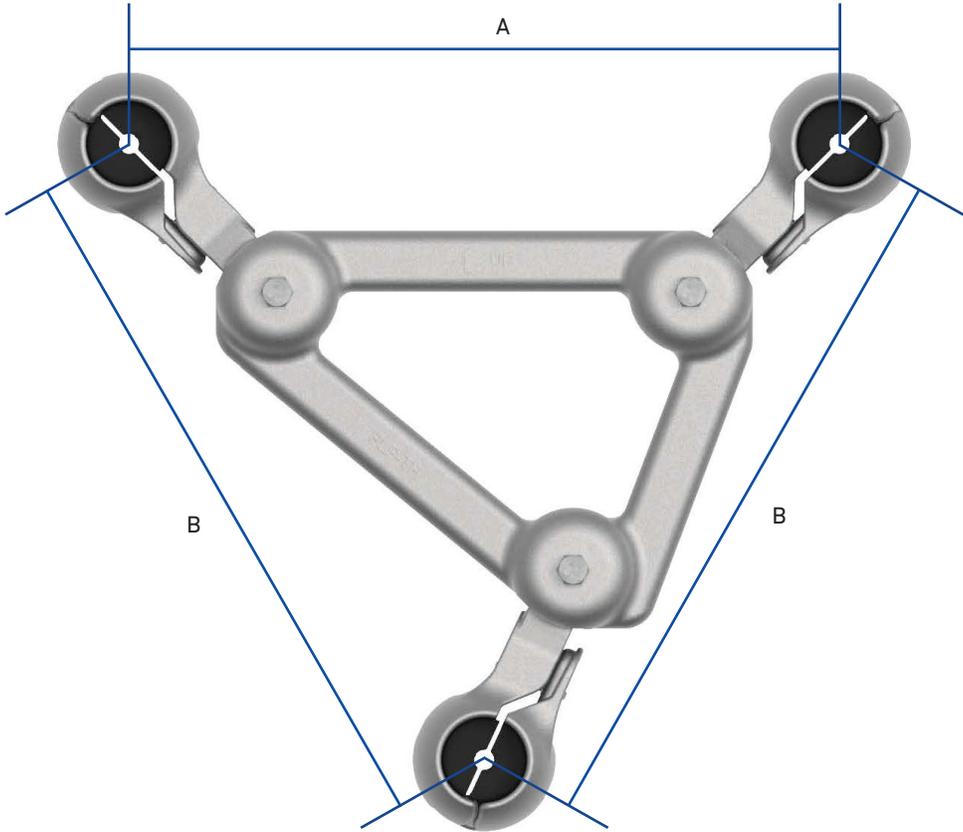
Section 6

Cushion Type Suffix Code	Cushion
Leave Blank	Standard
HT	High-Temperature

ORDERING INFORMATION

A x B x B

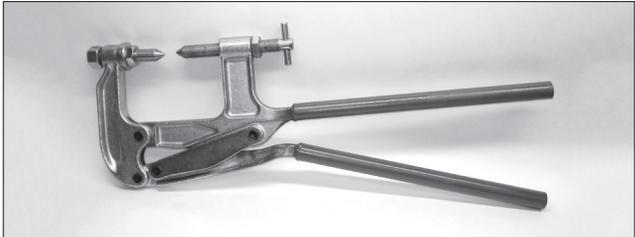
• The conductor spacing is denoted by the following configuration.



Tools

Catalog Number	Description
00071004	90-Degree CUSHION-GRIP Spacer Damper Installation Tool
00071033	Parallel CUSHION-GRIP Spacer Damper Installation Tool

NOTE: PLP offers tools to assist in the closing of the quarter turn. Two different versions are available for versatility.



00071033



00071004