

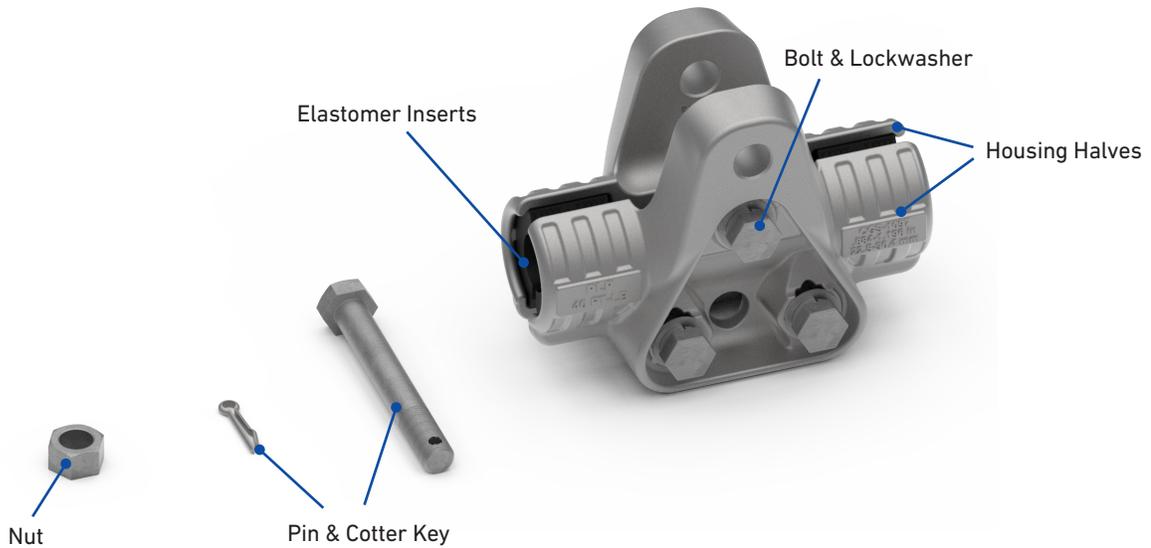
CUSHION-GRIP® SUSPENSION

The **CUSHION-GRIP Suspension** is intended for use on all aluminum-based conductors. It utilizes elastomer cushion inserts that significantly reduce static and dynamic bending stresses on the conductor at the attachment point. Additionally, fully captive hardware reduces the time and effort required for installation.

FEATURES AND BENEFITS

- Field-proven elastomer cushions protect the conductor against abrasion, wear, and fatigue
- Shipped fully assembled with no loose parts to avoid lost hardware
- Armor Rods are not necessary for installation, strain relief provided by cushion inserts.
- Design allows the suspension to be installed over the conductor by simply loosening the captive fasteners and spreading the assembly open
- Rated for EHV operation (contact PLP for more information)
- Rated for 125°C continuous operating temperatures (150°C two-hour emergency)
- High-temperature version available for 200°C continuous operation. For applications above 200°C, see the CGS-HT250 section of the catalog.
- Compatible with standard attachment hardware
- Bottom fasteners act as a hinge to facilitate hot stick application

COMPONENTS



CUSHION-GRIP® Suspension

Characteristic	Specification
Unbalanced/Slip Load	10% - 15% of conductor rated breaking strength
Maximum Vertical Load	Varies per assembly (consult dimensional chart for specific ratings)
Maximum Line Angle	30° for single support, 60° for double support



ORDERING INFORMATION

- Select the appropriate catalog number for the CUSHION-GRIP® Suspension from the table below based on the diameter of the conductor
- For Double CUSHION-GRIP Suspension applications, order two identical CGS Suspensions, a yoke plate, an attachment fitting to connect the yoke plate to the structure, and two identical Clevis Eye or Y-Clevis Eye fittings to connect the suspensions to the yoke plate

CUSHION-GRIP Suspension Catalog Number

CGS- X X X X
 (Section 1) (Section 2) (Section 3) (Section 4)

Catalog Number Example: CGS-1097HTYCBNK

Includes (1) CUSHION-GRIP Suspension with a conductor range of 0.884" - 1.196", high-temperature cushions, a Y-Clevis Eye, and a bolt, nut, and cotter pin connection.

Section 1

Range Number	Conductor Diameter Range		Standard Carton Quantity	Vertical Ultimate Load
	in	mm		lb (kN)
1095	0.312 - 0.608	7.92 - 15.44	10 units	15,000 (67)
1096	0.609 - 0.883	15.47 - 22.43	3 units	25,000 (111)
1097	0.884 - 1.196	22.45 - 30.38	3 units	
1098	1.197 - 1.545	30.40 - 39.24	3 units	
1120	1.546 - 1.569	39.27 - 39.85	3 units	30,000 (133)
1121	1.570 - 1.639	39.88 - 41.63		
1122	1.640 - 1.707	41.66 - 43.36		
1123	1.708 - 1.771	43.38 - 44.98		
1124	1.772 - 1.833	45.01 - 46.56		
1125	1.834 - 1.892	46.58 - 48.06		
1126	1.893 - 1.948	48.08 - 49.48		
1127	1.949 - 2.001	49.50 - 50.83		

Section 2

Suffix Code	Type
Leave Blank	Standard
HT	High-Temperature

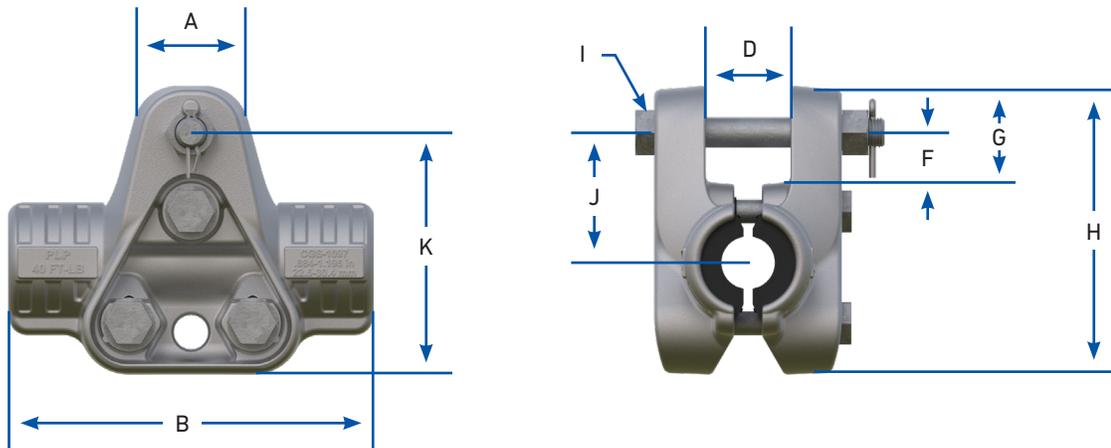
Section 3

Suffix Code	Type
Leave Blank	No attachment fittings
YC	Includes Y-Clevis Eye
CE	Includes Clevis Eye
SE	Includes Socket Eye

Section 4

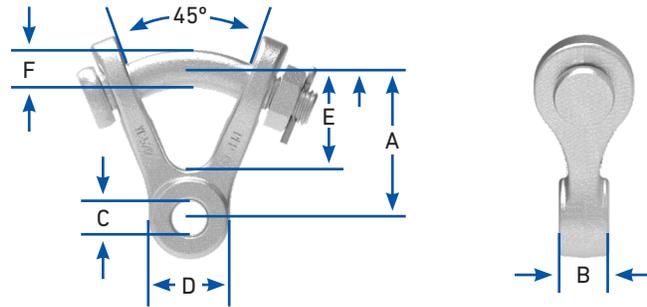
Suffix Code	Type
Leave Blank	Standard Clevis Pin and Cotter Pin
BNK	Bolt, Nut, and Cotter Pin

DIMENSIONS



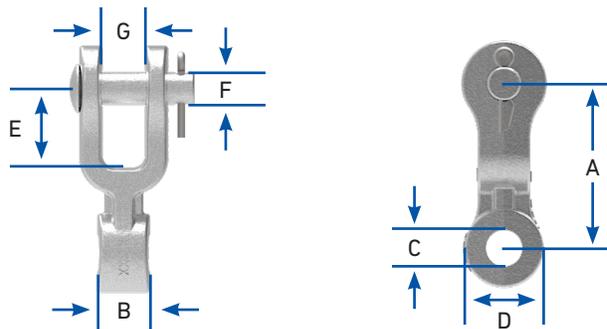
Conductor Range		Dimensions										Weight
		in (mm)										
in	mm	A	B	D		F	G	H	I Pin/Bolt Diameter	J	K	lb (kg)
				Minimum	Maximum							
0.312 - 0.608	7.92 - 15.44	2.00 (51.0)	6.5 (165.0)	0.80 (20.3)	1.20 (30.5)	1.00 (25.4)	2.00 (51.0)	4.85 (123.0)	5/8 (15.9)	2.40 (61.0)	3.85 (98.0)	2.5 (1.1)
0.609 - 0.883	15.47 - 22.43	2.25 (57.0)	6.85 (174.0)	1.15 (29.2)	1.70 (43.2)	1.05 (26.6)	2.00 (51.0)	5.30 (135.0)	5/8 (15.9)	2.60 (66.0)	4.30 (109.0)	4.00 (1.8)
0.884 - 1.196	22.45 - 30.38	2.25 (57.0)	7.55 (192.0)	1.15 (29.2)	1.70 (43.2)	1.05 (26.6)	2.00 (51.0)	6.00 (152.0)	5/8 (15.9)	2.70 (69.0)	5.00 (127.0)	5.5 (2.5)
1.197 - 1.545	30.40 - 39.24	2.25 (57.0)	8.60 (218.0)	1.15 (29.2)	1.70 (43.2)	1.10 (27.9)	2.10 (53.5)	6.25 (159.0)	5/8 (15.9)	2.90 (74.0)	5.24 (133.4)	6.7 (3.0)
1.546 - 2.001	39.27 - 50.83	2.50 (63.5)	9.20 (234.0)	1.25 (32.8)	1.80 (45.7)	1.25 (32.8)	2.50 (63.5)	7.60 (193.0)	5/8 (15.9)	3.50 (89.0)	6.35 (161.3)	9.5 (4.3)

HARDWARE FITTINGS



Y-Clevis Eye

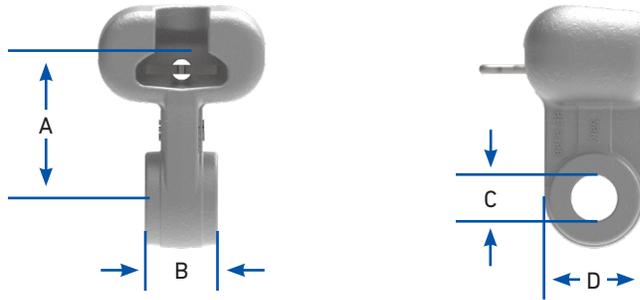
Catalog Number	Compatible CGS	Dimensions						Maximum Vertical Load
		in (mm)						
		A	B	C	D	E	F	lb (kN)
YC-5206	CGS-1095	2-31/32 (75.4)	5/8 (15.9)	11/16 (17.5)	1-5/8 (41.3)	2-1/8 (54.0)	3/4 (19.0)	15,000 (67)
YC-5212	CGS-1096	2-7/8 (73.0)	1 (25.4)	11/16 (17.5)	1-5/8 (41.3)	1-7/8 (47.6)	3/4 (19.1)	25,000 (111)
	CGS-1097							
	CGS-1098							
	CGS-1120							
	CGS-1121							
	CGS-1122							
	CGS-1123							
	CGS-1124							
	CGS-1125							
CGS-1126								
CGS-1127								



Clevis Eye

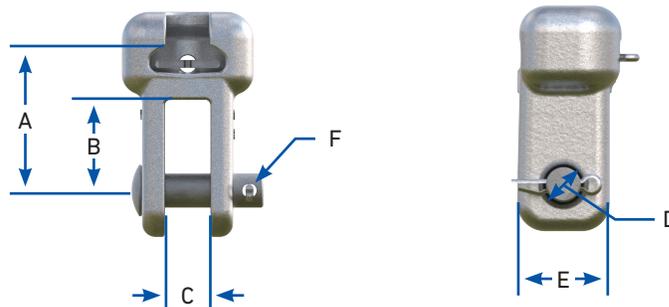
Catalog Number	Compatible CGS	Dimensions							Maximum Vertical Load
		in (mm)							
		A	B	C	D	E	F	G	lb (kN)
CE-5259	CGS-1095	3-1/8 (79.4)	1/2 (17.5)	11/16 (17.5)	1-1/2 (38.1)	1-1/2 (38.1)	5/8 (15.9)	13/16 (20.6)	15,000 (67)
CE-5107	CGS-1096	3-1/8 (79.4)	1 (25.4)	11/16 (17.5)	1-1/2 (38.1)	1-1/2 (38.1)	5/8 (15.9)	13/16 (20.6)	25,000 (111)
	CGS-1097								
	CGS-1098								

HARDWARE FITTINGS



Socket Eye

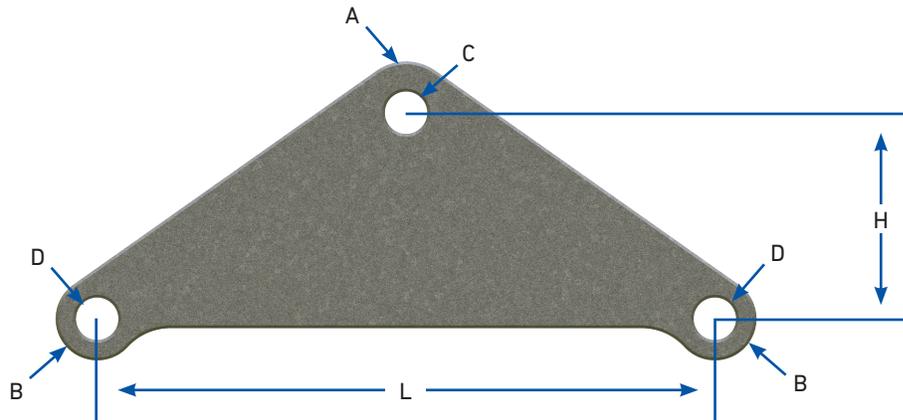
Catalog Number	Compatible CGS	Dimensions				Maximum Vertical Load	For Use with Insulators ANSI Class Spec C-29.2-71
		in (mm)					
		A	B	C	D		
SE-5156	CGS-1096	2-1/4 (57.2)	1 (25.4)	11/16 (17.5)	1-1/2 (38.1)	25,000 (111)	52-3 & 52-5
	CGS-1097						
	CGS-1098						
SE-5157	CGS-1120	2-13/32 (60.8)	1-1/8 (28.6)	11/16 (17.5)	1-3/4 (44.5)	30,000 (133)	
	CGS-1121						
	CGS-1122						
	CGS-1123						
	CGS-1124						
	CGS-1125						
	CGS-1126						
CGS-1127							



Socket Clevis

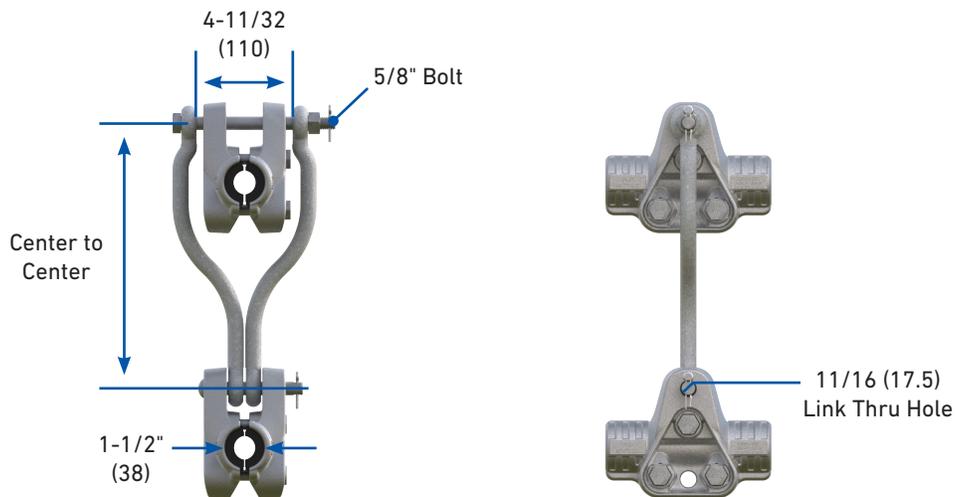
Catalog Number	Dimensions						Maximum Vertical Load	For Use with Insulators ANSI Class Spec C-29.2-71
	in (mm)							
	A	B	C	D	E	F		
SC-5194	2-15/16 (74.6)	1-5/8 (41.6)	13/16 (20.6)	11/16 (17.5)	1-3/4 (44.5)	5/8 (15.9)	30,000 (133)	52-3 & 52-5

HARDWARE FITTINGS



Yoke Plate

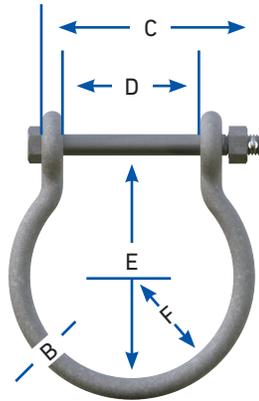
Catalog Number	Dimensions						Plate Thickness	Maximum Vertical Load
	in (mm)							
	A Radius	B Radius	C Diameter	D Diameter	L	H	in (mm)	lb (kN)
YP-5907	1 (25.4)	13/16 (20.6)	13/16 (20.6)	13/16 (20.6)	12 (304.8)	4 (101.6)	1/2 (12.7)	30,000 (133)



Vertical Building Links

Catalog Number	Compatible CGS	Center to Center	Maximum Vertical Load
		in (mm)	lb (kN)
VBLMS11244	All Sizes	12 (305)	30,000 (133)
VBLMS11302	All Sizes	18 (457)	40,000 (222)

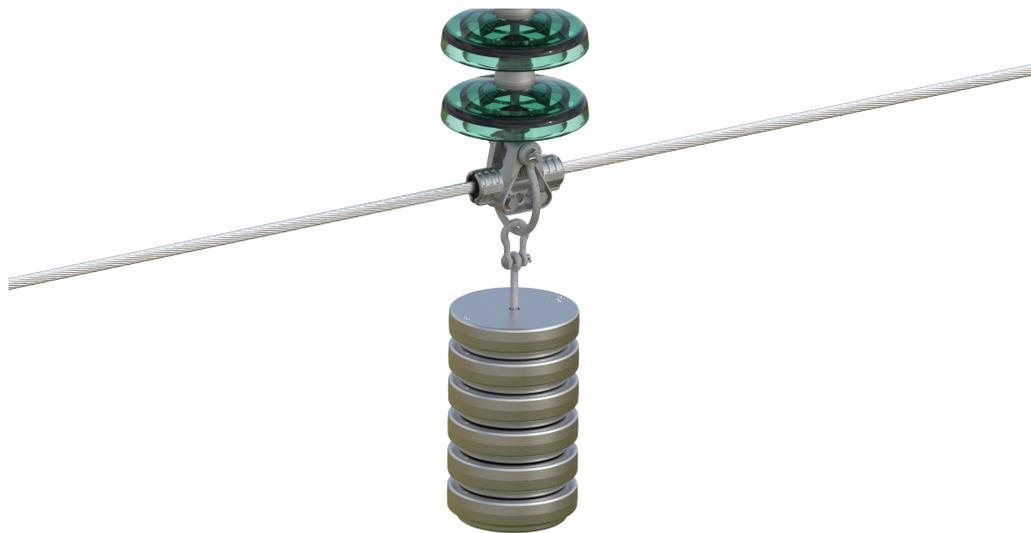
HARDWARE FITTINGS



Hold Down Shackle

Catalog Number	Compatible CGS	Conductor Range	Dimensions						Maximum Hold Down Weight
			in (mm)						
		A Bolt Diameter	B	C	D	E	F	lb (kg)	
HDS-06	CGS-1096	0.609 - 0.883 (15.47 - 22.43)	5/8 (15.9)	5/8 (15.9)	5-7/8 (149.0)	3-7/8 (98.4)	6-1/4 (159.0)	2-7/8 (73.0)	800 (363)
	CGS-1097	0.884 - 1.196 (22.45 - 30.38)							
	CGS-1098	1.197 - 1.545 (30.40 - 39.24)							

NOTE: The AS-5L and 00066148 or 00066149 Eye-bolt is needed to attach weights to the HDS-06



HDS-06 installed with CGS-1097