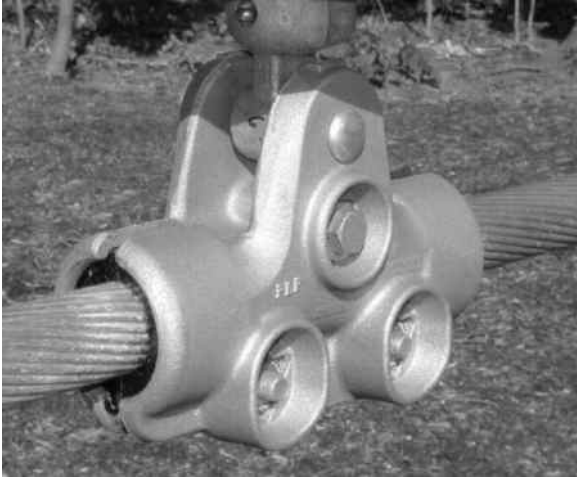


## CUSHION-GRIP™ Suspension



### General Recommendations

CUSHION-GRIP™ Suspensions are intended for use on all aluminum based conductors, and are designed to reduce the static and dynamic stresses at the support point so that the conductor is protected against the effects of oscillations. The conductor is cushioned by field proven, integral elastomer inserts, which guard against abrasion, wear, and fatigue

The level of protection provided by the CUSHION-GRIP™ Suspension is comparable to a bolted clamp over armor rods. This equates to a reduction in bending strain as high as 50% as compared to bare conductor in a bolted clamp. This reduction in bending strain can be directly related to an increase in overall conductor life. The standard CUSHION-GRIP™ Suspension is designed for up to 125° C continuous conductor operation (150° C two hour emergency) and the CGS – HT version can be used for applications with continuous conductor operating temperatures up to 220° C (225° C two hour emergency)

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# CUSHION-GRIP™ Suspension

## Features and Benefits

The CUSHION-GRIP™ Suspension is shipped assembled with no loose parts. All fasteners are factory installed to eliminate lost hardware in the field.

**Labour Savings:** To install the CUSHION-GRIP™ Suspension simply spread the body halves, places over the conductor and tighten bolts.

**Integral Cushions:** Minimize conductor bending stresses at critical entry locations.

**Compatible:** With standard attachment hardware, designed for EHV applications – corona free in bundled 345 Kv applications.

**Easy Hot Stick Application:** Lower captive fasteners act as hinge to facilitate hot stick application. Can be supplied with a bolt/nut/cotter in place of suspension pin cotter.

**Vertical Ultimate Load:** The vertical ultimate load of the CUSHION-GRIP™ Suspension is 25000#(111 kN).

**Slip Load:** When initially installed, the CGS Clamp has a slip load that ranges between 10% to 15% of the conductor's rated breaking strength (RBS).

**Line Angle:** The maximum recommended line angle for a CUSHION-GRIP™ Suspension is 30° as a single suspension and 60° in a double configuration utilizing a yoke plate



# CUSHION-GRIP™ Suspension

CATALOGUE NO	CONDUCTOR RANGE (mm)		NOMINAL CONDUCTOR SIZE	WIDTH (mm)		LENGTH (mm)	WEIGHT (kg)	STANDARD CARTON QUANTITY (units)	VERTICAL ULTIMATE LOAD
	MIN	MAX		MIN	MAX				
CG5-11 00	15,5	16,8	266,8; 18/1, 26/7 266,8; 19w AAAC						
CG5-1101	16,8	18,0	336,4; 19w, 37w AAC 336,4; 18/1						
CG5-1102	18.0	19,2	336,4; 26/7, 30/7 397,5; 19w AAC 397,5; 18/1	135	84 98	169	1.8	3	
CG5-11 03	19.2	20.3	397,5; 26/7 477; 19w, 37w AAC 397,5; 19w AAAC						
CG5-1104	20.3	21.4	397,5; 30/7 477; 18/1						
CG5-1105	21.4	22.4	477; 24/7, 26/7, 30/7, 19 AAAC 556,5; 19w, 37w, 61w AAC 556,5; 36/1, 18/1						
CG5-11 06	22.4	23.6	556,5; 24/7, 26/7 636; 37w, 61w AAC						
CG5-1107	23.7	24.9	636; 18/1, 24/7, 54/7 605; 24/5, 54/7						
CG5-1108	24.9	26.1	636; 26/7, 30/19 795; 37w AAC						
CG5-11 09	26.1	27.2	795; 61w AAC 795; 36/1, 45/7	152	84 98	162	2.5	3	111kN
CG5-1110	27.3	28.3	795; 24/7, 26/7, 54/7 795; 37w AAAC 900; 37w, 61w AAC						
CG5-1111	28.3	29.4	954; 37w, 61w AAC 795; 30/19 954; 36/1						
CG5-1112	29.4	30.4	954; 45/7, 54/7 1033.5; 37w, 61w AAC 1033.5; 36/1						

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# CUSHION-GRIP™ Suspension

CATALOGUE NO	CONDUCTOR RANGE (mm)		NOMINAL CONDUCTOR SIZE	WIDTH (mm)		LENGTH (mm)	WEIGHT (kg)	STANDARD	VERTICAL
	MIN	MAX		HEIGHT	MIN			MAX	
CG5-1113	29.9	31.4	954; 37w AAC 1033,5; 45/7						
CG5-1114	31.4	32.9	1033,5; 54/7 1192,5; 61w AAC 1113; 45/7, 54/19						
CG5-1115	32.9	34.3	1272; 61w AAC 1192,5; 45/7, 54/19 1272; 45/7						
CG5-1116	34.3	35.6	1272; 54/7 1351,5; 45/7 1431; 61w AAC	159	84 98	218	3.0	3	111kN
CG5-1117	35.6	36.9	1351,5; 54/19 1431; 45/7 1590; 61w AAC						
CG5-1118	36.9	38.1	1590; 91w AAC 1431; 54/19						
CG5-1119	38.1	39.21	1590; 45/7, 54/19						