

# COUNTERSUNK MULTI-GRIP ALUMINUM RIVET/ STEEL MANDREL



Part Number	A	B		C		D		E	Recommended Hole Size	Shear Strength	Tensile Strength
	Rivet Diameter	Length		Head Diameter		Head Height		Grip Range		Pounds	Pounds
		Max	Min	Max	Min	Max	Min				
C-0412	1/8	.470	.410	.217	.198	.034	.026	.093-.250	.136	165	230
C-0414	1/8	.530	.480	.217	.198	.034	.026	.155-.312	.136	165	230
C-0416	1/8	.600	.530	.217	.198	.034	.026	.217-.375	.136	165	230
C-0512	5/32	.480	.430	.257	.238	.036	.028	.046-.250	.166	255	375
C-0514	5/32	.550	.490	.257	.238	.036	.028	.109-.312	.166	255	375
C-0615	3/16	.610	.520	.351	.343	.055	.047	.125-.312	.199	350	530
C-0621	3/16	.800	.710	.351	.343	.055	.047	.250-.500	.199	350	530

<b>Description</b>	An aluminum blind fastener with a self-contained steel mandrel .The multi-grip rivet design differs from a standard blind rivet two ways: (1) a section of the body shank has a slightly reduced outside diameter, and (2) the stem of the mandrel is pinched at a point above the mandrel head. The rivet's head is countersunk at an angle of 120°.
<b>Applications/ Advantages</b>	Multi-grip rivets provide maximum clamping action over a full range of material thicknesses while using the same rivet length. This allows flexibility in design, cuts production costs and reduces inventories. The countersunk head style provides a smooth offside surface and sufficient clearance for moving parts which pass over the rivet head .They should be used when fastening materials with mechanical and physical properties similar to aluminum.
<b>Material</b>	<i>Rivet:</i> Aluminum Alloy 5251 or equivalent alloy. <i>Mandrel:</i> Low carbon steel with a choice of coating: black phosphate or zinc with yellow chromate.
<b>Shear Strength</b>	Rivets shall have ultimate shear loads not less than the minimum ultimate shear loads specified for the applicable size given in the above table.
<b>Tensile Strength</b>	Rivets shall have ultimate tensile loads not less than the minimum ultimate tensile loads specified for the applicable size given in the above table.

Kanebridge- Zinc yellow mandrel	Avdel Avex® - Zinc yellow mandrel	Kanebridge- Black phos mandrel	Avdel Avex® - Black phos mandrel	Pop® - Plain steel mandrel
C-0412Y	1682-0412	C-04128	1604-0412	AK41-4488
C-0414Y	1682-0414	C-0414B	1604-0414	-
C-0416Y	1682-0416	-	1604-0416	-
C-0514Y	1682-0514	-	1 6 0 4 - 0 5 1 4	-
C-0615Y	1682-0615	C-06158	1604-0615	-
C-0621Y	1682-0621	C-0621B	1604-0621	-