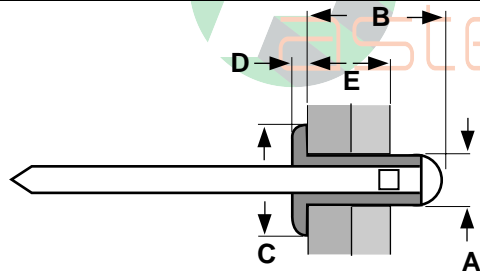


# Rivets

## Multi-Grip Low-Profile Head Aluminum Blind Rivet/ Steel Mandrel



LOW-PROFILE MULTI-GRIP ALUMINUM BODY/STEEL MANDREL BLIND RIVETS											Avdel*	
Part Number	A Rivet Diameter	B Length		C Head Diameter		D Head Height		E Grip Range	Recom- mended Hole Size	Shear Strength Pounds	Tensile Strength Pounds	
		Max	Min	Max	Min	Max	Min					
L-0410	1/8	.410	.350	.262	.243	.041	.034	.031-.187	.136	165	230	
L-0412	1/8	.470	.420	.262	.243	.041	.034	.062-.250	.136	165	230	
L-0414	1/8	.530	.480	.262	.243	.041	.034	.125-.312	.136	165	230	
L-0416	1/8	.590	.540	.262	.243	.041	.034	.187-.375	.136	165	230	
L-0512	5/32	.480	.430	.321	.302	.051	.044	.046-.250	.166	255	375	
L-0514	5/32	.540	.490	.321	.302	.051	.044	.125-.312	.166	255	375	
L-0516	5/32	.610	.550	.321	.302	.051	.044	.156-.375	.166	255	375	
L-0613	3/16	.550	.470	.396	.377	.061	.054	.062-.250	.199	350	530	
L-0619	3/16	.730	.660	.396	.377	.061	.054	.187-.437	.199	350	530	
L-0621	3/16	.780	.720	.396	.377	.061	.054	.250-.500	.199	350	530	
L-0631	3/16	1.09	1.03	.396	.377	.061	.054	.500-.781	.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 head of the rivet body is lower and wider than a dome head (approximately twice the diameter of the shank).
<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. Low-Profile heads are usually chosen to improve the product's finished appearance. 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.

PART NUMBER COMPARISON - LOW PROFILE HEAD MULTI-GRIP RIVETS				
Kanebridge- Zinc yellow mandrel	Avdel Avex®- Zinc yellow mandrel	Kanebridge- Black phos mandrel	Avdel Avex® - Black phos mandrel	Pop® - Plain steel mandrel
L-0410Y	1691-0410	L-0410B	1661-0410	AD41-43BS
-	1691-0412	L-0412B	1661-0412	-
L-0414Y	1691-0414	L-0414B	1661-0414	AD43-45BS
L-0416Y	1691-0416	L-0416B	1661-0416	-
L-0512Y	1691-0512	L-0512B	1661-0512	AD52-54BS
L-0514Y	1691-0514	L-0514B	1661-0514	-
L-0516Y	1691-0516	-	1661-0516	-
L-0613Y	1691-0613	L-0613B	1661-0613	AD62-64BS
L-0619Y	1691-0619	L-0619B	1661-0619	AD63-66BS
L-0621Y	1691-0621	L-0621B	1661-0621	AD66-68BS
L-0631Y	1691-0631	L-0631B	1661-0631	-

\*Avdel Cherry Textron is the original writer of the multi-grip dimensions.