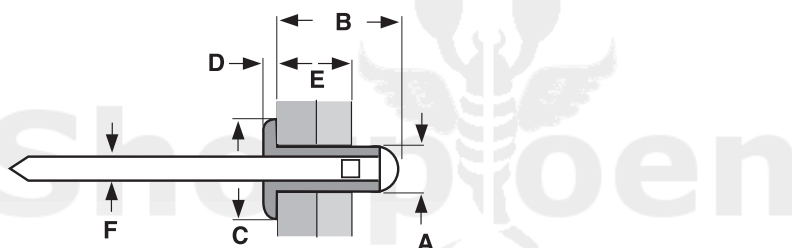


**Aluminum Body Steel Mandrel** **MULTI-GRIP, LOW-PROFILE HEAD**



LOW-PROFILE MULTI-GRIP ALUMINUM BODY / STEEL MANDREL BLIND RIVETS										Avdel
Part Number	A	B	C	D	E		F	Recommended Hole Size	Shear Strength	Tensile Strength
	Rivet Diameter	Length	Head Diameter	Head Height	Grip Range		Mandrel Diameter		Pounds	Pounds
		Max	Max	Max	Min	Max	Max			
L-0410	1/8	.409	.263	.051	.031	.189	.070	.134	165	230
L-0414		.535			.157	.311				
L-0416		.629			.216	.374				
L-0512	5/32	.492	.322	.063	.056	.248	.082	.165	255	375
L-0514		.570			.125	.312				
L-0516		.637			.157	.373				
L-0521		.770			.251	.499				
L-0613	3/16	.550	.396	.071	.062	.250	.112	.197	345	525
L-0619		.740			.187	.437			295	
L-0621		.800			.187	.500			295	
L-0631		1.11			.500	.781			320	

<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 Body:</i> Aluminum Alloy 5251 or equivalent alloy. <i>Mandrel:</i> Low carbon steel
<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 shear loads not less than the minimum ultimate tensile loads specified for the applicable size given in the above table.

LOW PROFILE MULTI-GRIP RIVETS PART NUMBER COMPARISON			
ALUMINUM RIVET / STEEL BLACK PHOSPHATE MANDREL		ALUMINUM RIVET / STEEL ZINC MANDREL	
Catalog Part #	Avdel Avex®	Catalog Part #	Avdel Avex®
L-0410B	1661-0410	L-0410Y	1691-0410
L-0414B	1661-0414	L-0414Y	1691-0414
L-0613B	1661-0613	L-0416Y	1691-0416
L-0619B	1661-0619	L-0512Y	1691-0512
L-0621B	1661-0621	L-0514Y	1691-0514
L-0631B	1661-0631	L-0516Y	1691-0516
		L-0521Y	1691-0521
		L-0613Y	1691-0613
		L-0619Y	1691-0619
		L-0621Y	1691-0621
		L-0631Y	1691-0631

\*Rivets meet the same dimensions as those published by the manufacturers of the Avdel UK Limited brand.