

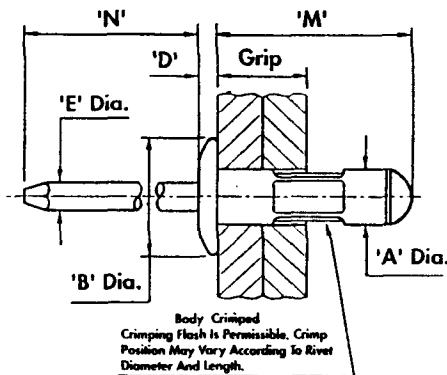


Avdel

TECHNICAL DATA

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1661 SERIES LOW PROFILE HEAD AVEX RIVETS



Rivet Dia.	Recommended Hole Size	
	in	mm
3mm	.130/.122	3.30/3.10
1/8in	.128/.133	3.25/3.38
5/32in	.161/.166	4.09/4.22
3/16in	.193/.198	4.90/5.03

	Material	Finish
Rivet	Aluminium Alloy 2.5% Magnesium 5251/5052 DIN.1725 Al.Mg.2.5 Werkstoff 3.3523	Plain
Stem 1/8, 5/32 3/16 in	Low Carbon Steel B.S.970 080A15 OR 080A20 DIN.1654 Cq.15 OR Cq.22 Werkstoff 1.1132 OR 1.1152	Zinc Coated
Stem 3mm	Low Carbon Steel B.S.970 040A12 DIN. 1654 QSt36-3 Werkstoff 1.0214	Zinc Coated

IMPERIAL DIMENSIONS

Nom. Size	Part Number	Nominal Grip Range	'A' Dia.		'B' Dia.		'D'		'E' Dia.	'M'		'N'	Typical Strength lbs.f.	
			Max.	Min.	Max.	Min.	Max.	Min.	Max.	Max.	Min.	Min.	Single Shear	Ult. Tensile
3mm	1661-5307	1/32-11/64	.1180	.1145	.262	.243	.041	.034	.0655	.36	.29	1.17	157	220
1/8	1661-0410	1/32-3/16	.1250	.1205	.262	.243	.041	.034	.0695	.41	.34	1.15	165	230
	1661-0412	3/64-1/4								.47	.41	1.15	165	230
	1661-0414	5/32-5/16								.54	.47	1.15	165	230
	1661-0416	7/32-3/8								.60	.53	1.14	165	230
5/32	1661-0508	02-1/8	.1590	.1555	.321	.302	.051	.044	.0835	.37	.31	1.25	255	375
	1661-0512	3/64-1/4	.1560	.1500						.49	.43	1.12	255	375
	1661-0516	5/32-3/8	.1560	.1500						.62	.55	1.12	255	375
	1661-0521	1/4-1/2	.1590	.1555						.77	.71	1.12	235	375
3/16	1661-0613	1/16-1/4	.1910	.1855	.396	.372	.061	.054	.1115	.55	.46	1.11	345	525
	1661-0619	3/16-7/16								.74	.65	1.12	295	525
	1661-0621	3/16-1/2								.80	.71	1.06	295	525
	1661-0631	3/16-25/32								1.11	1.02	1.01	320	525

METRIC DIMENSIONS

Nom. Size	Part Number	Nominal Grip Range	'A' Dia.		'B' Dia.		'D'		'E' Dia.	'M'		'N'	Typical Strength N	
			Max.	Min.	Max.	Min.	Max.	Min.	Max.	Max.	Min.	Min.	Single Shear	Ult. Tensile
3mm	1661-5307	0.8 - 4.3	2.997	2.908	6.66	6.17	1.05	0.86	1.651	9.1	7.4	29.8	700	980
3.2mm	1661-0410	0.8 - 4.8	3.175	3.060	6.66	6.17	1.05	0.86	1.766	10.4	8.8	29.2	735	1025
	1661-0412	1.2 - 6.3								12.0	10.4	29.2	735	1025
	1661-0414	4.0 - 7.9								13.6	12.0	29.2	735	1025
	1661-0416	5.5 - 9.5								15.1	13.4	29.1	735	1025
4.0mm	1661-0508	0.5 - 3.2	4.035	3.947	8.16	7.67	1.30	1.11	2.121	9.3	7.7	31.9	1135	1670
	1661-0512	1.2 - 6.3	3.963	3.810						12.5	10.9	28.6	1135	1670
	1661-0516	4.0 - 9.5	3.963	3.810						15.6	14.0	28.6	1135	1670
	1661-0521	6.4 - 12.7	4.035	3.947						19.6	18.0	28.6	1045	1670
4.8mm	1661-0613	1.6 - 6.3	4.852	4.711	10.06	9.57	1.55	1.37	2.832	13.9	11.8	28.2	1535	2335
	1661-0619	4.8 - 11.1								18.7	16.6	28.5	1310	2335
	1661-0621	4.8 - 12.7								20.2	18.1	26.9	1310	2335
	1661-0631	4.8 - 19.8								28.2	26.1	25.6	1425	2335

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Notes:-

1. To Install Avdel Fasteners, The Use Of Avdel Systems Limited Specified Installation Tooling Is Recommended. See Appropriate Tooling Brochures For Details Of Nose Equipment.
 2. Avdel Fasteners Are Supplied Ready For Use And Shall **Not** Be Reprocessed Or Degreased Prior To Installation As This May Affect Performance.
 3. These Fasteners Are **Not Suitable** For Use With **Automatic Feed Placing Machines** (e.g. Avmatic). Fasteners For Use On Automatic Placing Machines (e.g. Avmatic) Are Coded 1661-1XXX (Fifth Digit = 1).
 4. Fasteners Shown Overleaf **In Shaded Areas**, Are **Non-Stocked Items** And As Such Subject To **Special Quotation And Delivery**.
 5. Avex Rivets Are Also Available With Alternative Head Forms e.g. Snap Head, Countersunk Head, Mushroom Head and Large Flange Head.
Low Profile Head Avex Is Also Available In A Steel, Zinc Plated Version. For Further Details Please Contact Avdel Systems Limited.
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