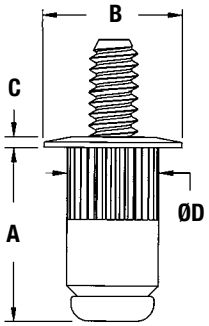
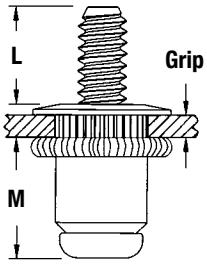




NOTE: The "L" dimension is the height of the installed stud at max grip. The height of the stud will increase if it is installed into thinner material. To calculate "actual L" use this formula: max grip - actual grip + L = "actual L"

All dimensions are in inches.

Thread Size	Grip Code	Grip Range	Stud Length "L" Nom. (at Max. Grip) Part Number			A ±.020	B ±.015	C Nom.	ØD Max.	M Ref.	Hole Size In Sheet +.006 -.000
#6-32	80	.020 - .080	.500 AESS-632-80-500	.625 AESS-632-80-625	.750 AESS-632-80-750	.490	.390	.030	.265	.375	.266
#6-32	130	.080 - .130	.450 AESS-632-130-450	.575 AESS-632-130-575	.700 AESS-632-130-700	.540	.390	.030	.265	.375	.266
#8-32	80	.020 - .080	.500 AESS-832-80-500	.625 AESS-832-80-625	.750 AESS-832-80-750	.490	.390	.030	.265	.375	.266
#8-32	130	.080 - .130	.450 AESS-832-130-450	.575 AESS-832-130-575	.700 AESS-832-130-700	.540	.390	.030	.265	.375	.266
#10-24	130	.020 - .130	.500 AESS-1024-130-500	.625 AESS-1024-130-625	.750 AESS-1024-130-750	.545	.415	.030	.296	.385	.297
#10-24	225	.130 - .225	.405 AESS-1024-225-405	.530 AESS-1024-225-530	.655 AESS-1024-225-655	.655	.415	.030	.296	.385	.297
#10-32	130	.020 - .130	.500 AESS-1032-130-500	.625 AESS-1032-130-625	.750 AESS-1032-130-750	.545	.415	.030	.296	.385	.297
#10-32	225	.130 - .225	.405 AESS-1032-225-405	.530 AESS-1032-225-530	.655 AESS-1032-225-655	.655	.415	.030	.296	.385	.297
1/4-20	165	.027 - .165	.625 AESS-420-165-625	.8125 AESS-420-165-8125	1.000 AESS-420-165-1000	.670	.500	.030	.390	.470	.391
1/4-20	260	.165 - .260	.530 AESS-420-260-530	.7175 AESS-420-260-7175	.905 AESS-420-260-905	.770	.500	.030	.390	.470	.391
5/16-18	150	.027 - .150	.625 AESS-518-150-625	.875 AESS-518-150-875	1.125 AESS-518-150-1125	.805	.685	.035	.530	.585	.531
5/16-18	312	.150 - .312	.508 AESS-518-312-463	.713 AESS-518-312-713	.963 AESS-518-312-963	.920	.685	.035	.530	.540	.531
3/8-16	150	.027 - .150	.750 AESS-616-150-750	1.000 AESS-616-150-1000	1.250 AESS-616-150-1250	.805	.685	.035	.530	.585	.531
3/8-16	312	.150 - .312	.508 AESS-616-312-588	.838 AESS-616-312-838	1.088 AESS-616-312-1088	.920	.685	.035	.530	.540	.531

NOTE: The standard is assembled with an AEL insert but can also be assembled with an AEK or an AEH insert (see page 13).

MATERIAL & FINISH SPECIFICATIONS

Type	Threads	Material	Standard Finish
AES	Unified, 2A per ASME B1.1 Metric, 6g per ASME B1.13M	Insert - Low Carbon Steel, C-1008 or equivalent Stud - Heat-treated medium carbon steel	Zinc Yellow Plate per ASTM B 633, Fe/Zn 8, Type II

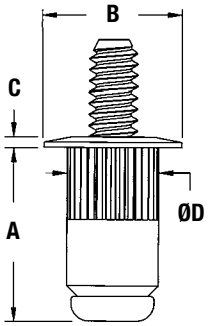
Part Number Designation

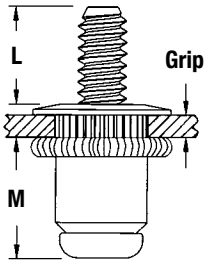
AES S - 518 - 150 625

Type | Material | Thread Code | Max. Grip | Stud Length

No finish code for standard finish zinc yellow.

SEE PAGE 32 FOR MORE DETAIL





NOTE: The "L" dimension is the height of the installed stud at max grip. The height of the stud will increase if it is installed into thinner material. To calculate "actual L" use this formula: max grip - actual grip + L = "actual L"

All dimensions are in millimeters.

Thread Size x Pitch	Grip Code	Grip Range	Stud Length "L" Nom. (at Max. Grip) / Part Number			A ±0.51	B ±0.38	C Nom.	ØD Max.	M Ref.	Hole Size In Sheet +0.15
M4 x 0.7	2.0	0.5 - 2.0	12 AESS-470-2.0-12.0	15 AESS-470-2.0-15.0	20 AESS-470-2.0-20.0	12.45	9.91	0.76	6.73	9.53	6.75
M4 x 0.7	3.3	2.0- 3.3	10.7 AESS-470-3.3-10.7	13.7 AESS-470-3.3-13.7	18.7 AESS-470-3.3-18.7	13.72	9.91	0.76	6.73	9.53	6.75
M5 x 0.8	3.3	0.5 - 3.3	12 AESS-580-3.3-12.0	15 AESS-580-3.3-15.0	20 AESS-580-3.3-20.0	13.85	10.54	0.76	7.52	9.78	7.6
M5 x 0.8	5.7	3.3 - 5.7	9.6 AESS-580-5.7-9.6	12.6 AESS-580-5.7-12.6	17.6 AESS-580-5.7-17.6	16.64	10.54	0.76	7.52	9.78	7.6
M6 x 1	4.2	0.7 - 4.2	15 AESS-610-4.2-15.0	20 AESS-610-4.2-20.0	25 AESS-610-4.2-25.0	17.02	12.7	0.76	9.91	11.94	10
M6 x 1	6.6	4.2 - 6.6	12.6 AESS-610-6.6-12.6	17.6 AESS-610-6.6-17.6	22.6 AESS-610-6.6-22.6	19.56	12.7	0.76	9.91	11.94	10
M8 x 1.25	3.8	0.7 - 3.8	16 AESS-8125-3.8-16.0	22 AESS-8125-3.8-22.0	28 AESS-8125-3.8-28.0	20.45	17.4	0.89	13.46	14.86	13.5
M8 x 1.25	7.9	3.8 - 7.9	13 AESS-8125-7.9-11.9	17.9 AESS-8125-7.9-17.9	23.9 AESS-8125-7.9-23.9	23.37	17.4	0.89	13.46	13.72	13.5
M10 x 1.5	3.8	0.7 - 3.8	20 AESS-1015-3.8-20.0	25 AESS-1015-3.8-25.0	30 AESS-1015-3.8-30.0	20.45	17.4	0.89	13.46	14.86	13.5
M10 x 1.5	7.9	3.8 - 7.9	17 AESS-1015-7.9-5.9	20.9 AESS-1015-7.9-20.9	25.9 AESS-1015-7.9-25.9	23.37	17.4	0.89	13.46	13.72	13.5

NOTE: The standard is assembled with an AEL insert but can also be assembled with an AEK or an AEH insert.

MATERIAL & FINISH SPECIFICATIONS

Type	Threads	Material	Standard Finish
AES	Unified, 2A per ASME B1.1 Metric, 6g per ASME B1.13M	Insert - Low Carbon Steel, C-1008 or equivalent Stud - Heat-treated medium carbon steel	Zinc Yellow Plate per ASTM B 633, Fe/Zn 8, Type II

Part Number Designation

AES S - 1015 - 3.8 20

Type: AES | Material: S | Thread Code: 1015 | Max. Grip: 3.8 | Stud Length: 20

No finish code for standard finish zinc yellow.

SEE PAGE 32 FOR MORE DETAIL