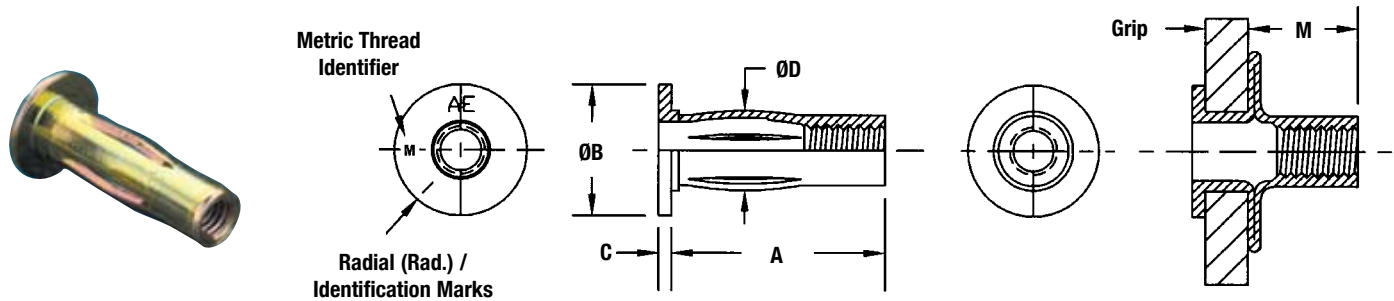


Plus+Tite® — PRE-BULBED INSERT*

- Designed for superior pullout resistance in plastics and thin sheet metal.
- Pre-bulbed design requires less installation load.



All dimensions are in inches.

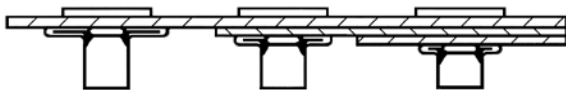
Thread Size	Part Number	Grip Range	Identification Mark	A ±.015	ØB Nom.	C Nom.	ØD Max.	M Ref.	Hole Size In Sheet +.006 -.000
#10-32	AES10P175PBZYR	.020 - .175	None	.781	.500	.038	.329	.425	.336
#10-32	AES10P320PBZYR	.175 - .320	1 Rad.	.921	.500	.038	.329	.425	.336
1/4-20	AES25P280PBZYR	.020 - .280	None	1.000	.625	.057	.382	.520	.390
1/4-20	AES25P500PBZYR	.280 - .500	1 Rad.	1.235	.625	.057	.382	.520	.390
5/16-18	AES31P280PBZYR	.020 - .280	None	1.141	.750	.062	.495	.775	.500
5/16-18	AES31P500PBZYR	.280 - .500	1 Rad.	1.375	.750	.062	.495	.775	.500
3/8-16	AES37P280PBZYR	.020 - .280	None	1.218	.875	.088	.587	.775	.594

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	Identification Mark	A ±0.38	ØB Nom.	C Nom.	ØD Max.	M Ref.	Hole Size In Sheet +0.15
M6 x 1	AESM6P7.1PBZYR	0.50 - 7.1	None	25.4	15.88	1.45	9.8	13.2	10
M6 x 1	AESM6P12.7PBZYR	7.1 - 12.7	1 Rad.	31.34	15.88	1.45	9.8	13.2	10
M8 x 1.25	AESM8P7.1PBZYR	0.50 - 7.1	None	29.25	19.05	1.57	12.57	19.69	12.7
M8 x 1.25	AESM8P12.7PBZYR	7.1 - 12.7	1 Rad.	34.93	19.05	1.57	12.57	19.69	12.7
M10 x 1.5	AESM10P7.1PBZYR	0.50 - 7.1	None	30.94	22.2	2.24	14.91	19.69	15.09

NOTE: The Atlas® spin-spin or spin-pull tool can be used to install pre-bulbed inserts. Material hardness will affect the published grip ranges. Trial installations of this product in your application are recommended. We will be happy to provide samples for this purpose.

*Pre-bulbed inserts require less installation load than straight shank and require slightly larger mounting hole size.



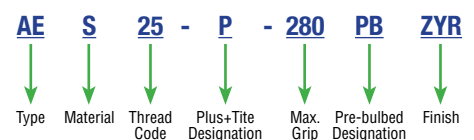
Installs into single, variable, or multiple thickness materials.

MATERIAL & FINISH SPECIFICATIONS

Type	Threads	Standard Material ⁽¹⁾	Standard Finish
AE	Unified, 2B per ASME B1.1 Metric, 6H per ASME B1.13M	Low Carbon Steel, C-1008 or, C-1010 or equivalent	RoHS Compliant Zinc Yellow Per ASTM B 633, Fe/Zn 8, Type II

(1) Other materials available. See page 35 for details.

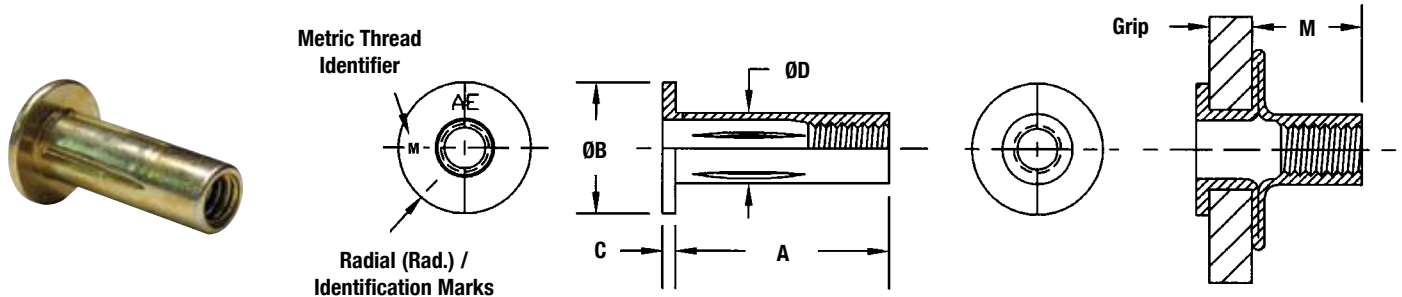
Part Number Designation



SEE PAGE 35 FOR MORE DETAIL

Plus+Tite® — STRAIGHT SHANK INSERT

- Designed for superior pullout resistance in plastics and thin sheet metal.
- Straight shank design uses smaller mounting hole.



All dimensions are in inches.

Thread Size	Part Number	Grip Range	Identification Mark	A ±.015	ØB Nom.	C Nom.	ØD Max.	M Ref.	Hole Size In Sheet +.006 -.000
#10-32	AES10P175ZYR	.020 - .175	None	.781	.500	.038	.272	.425	.273
#10-32	AES10P320ZYR	.175 - .320	1 Rad.	.921	.500	.038	.272	.425	.273
1/4-20	AES25P280ZYR	.020 - .280	None	1.000	.625	.058	.346	.505	.347
1/4-20	AES25P500ZYR	.280 - .500	1 Rad.	1.234	.625	.058	.346	.505	.347
5/16-18	AES31P280ZYR	.020 - .280	None	1.141	.750	.062	.437	.570	.438
5/16-18	AES31P500ZYR	.280 - .500	1 Rad.	1.375	.750	.062	.437	.570	.438
3/8-16	AES37P280ZYR	.020 - .280	None	1.218	.875	.088	.514	.605	.515
3/8-16	AES37P500ZYR	.280 - .500	1 Rad.	1.437	.875	.088	.514	.605	.515

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	Identification Mark	A ±0.38	ØB Nom.	C Nom.	ØD Max.	M Ref.	Hole Size In Sheet +0.15
M6 x 1	AESM6P7.1ZYR	0.50 - 7.1	None	25.40	15.87	1.5	8.79	12.8	8.8
M6 x 1	AESM6P12.7ZYR	7.1 - 12.7	1 Rad.	31.32	15.87	1.5	8.79	12.8	8.8
M8 x 1.25	AESM8P7.1ZYR	0.50 - 7.1	None	28.95	19.04	1.57	11.1	14.47	11.11
M8 x 1.25	AESM8P12.7ZYR	7.1 - 12.7	1 Rad.	34.90	19.04	1.57	11.1	14.47	11.11
M10 x 1.5	AESM10P7.1ZYR	0.50 - 7.1	None	30.94	22.23	2.24	13.06	15.75	13.07
M10 x 1.5	AES10P12.7ZYR	7.1 - 12.7	1 Rad.	36.50	22.23	2.24	13.06	15.75	13.07

NOTE: The Atlas® spin-pull tool is recommended to install straight shank inserts. Material hardness will affect the published grip ranges. Trial installations of this product in your application are recommended. We will be happy to provide samples for this purpose.



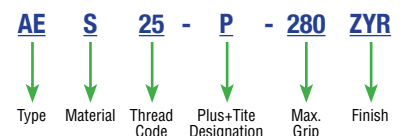
Installs into single, variable, or multiple thickness materials.

MATERIAL & FINISH SPECIFICATIONS

Type	Threads	Standard Material ⁽¹⁾	Standard Finish
AE	Unified, 2B per ASME B1.1 Metric, 6H per ASME B1.13M	Low Carbon Steel, C-1008 or, C-1010 or equivalent	RoHS Compliant Zinc Yellow Per ASTM B 633, Fe/Zn 8, Type II

(1) Other materials available. See page 35 for details.

Part Number Designation



SEE PAGE 35 FOR MORE DETAIL