

Ball Lock Pins • single acting - comply with NASM / MS17986

EH 4212.



Product Description

Ball Lock Pins according to NASM (former norm: MS) are used for quick fastening, locking, adjusting, changing and securing. Quickly and easily unlockable for frequently repeated connections.

Ball Lock Pins (Quick Release Pins) are produced according to Aviation Norm NASM (former norm: MS) and tested to NAS 1332.

Material

Body

- Stainless steel, precipitation-hardened, passivated

Spindle

- Stainless steel, precipitation-hardened, passivated

Spring

- Stainless steel, passivated

Handle

- Aluminium, black anodised

Attaching ring

- Stainless steel, passivated

Press button

- Stainless steel, passivated

Ball

- Stainless steel, precipitation-hardened, passivated

Operation

Ball lock pins single acting are self-locking and require a push of the button to release the balls.

More information

Notes

All further dimensions are available on request.

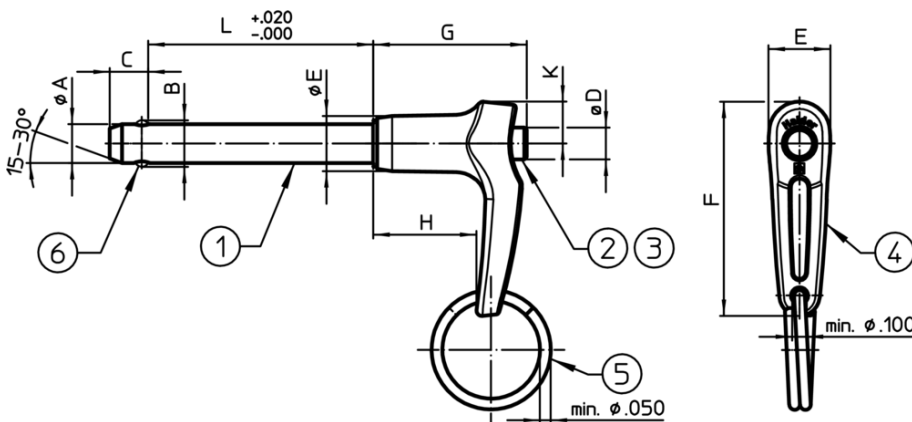
Special types on request.

- This product is manufactured in INCH dimensions.

References

A conversion table can be found in the technical data following these product information pages.

Drawing



Order information

| Nominal diameter A | A min. | A max. | Clamping length L +0.02 0 | Dimensions | | | | | | | | Location hole max. | Shearing resistance, two-shear min. | Temperature | | Weight [g] | Standard description | Art. No. |
|-----------------------|-----------|-----------|---------------------------------------|-------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------------|--|-------------|------|---------------|-------------------------|----------|
| | | | | B ±0.005 | C 0 -0.04 | D max. | E max. | F max. | G max. | H min. | K max. | | | min. | max. | | | |
| [inch] | [inch] | [inch] | [inch] | [inch] | | | | | | | | [inch] | [lbf] | [°F] | | [g] | | |
| 3/16 | 0.1870 | 0.1885 | 0.4 | 0.220 | 0.260 | 0.310 | 0.500 | 1.80 | 1.27 | 0.76 | 0.34 | 0.1940 | 5,150 | -65 | 200 | 25 | MS17986C304 | 4212.A04 |
| 3/16 | 0.1870 | 0.1885 | 0.5 | 0.220 | 0.260 | 0.310 | 0.500 | 1.80 | 1.27 | 0.76 | 0.34 | 0.1940 | 5,150 | -65 | 200 | 25 | MS17986C305 | 4212.A05 |
| 3/16 | 0.1870 | 0.1885 | 0.6 | 0.220 | 0.260 | 0.310 | 0.500 | 1.80 | 1.27 | 0.76 | 0.34 | 0.1940 | 5,150 | -65 | 200 | 26 | MS17986C306 | 4212.A06 |
| 3/16 | 0.1870 | 0.1885 | 0.8 | 0.220 | 0.260 | 0.310 | 0.500 | 1.80 | 1.27 | 0.76 | 0.34 | 0.1940 | 5,150 | -65 | 200 | 26 | MS17986C308 | 4212.A08 |
| 3/16 | 0.1870 | 0.1885 | 1.0 | 0.220 | 0.260 | 0.310 | 0.500 | 1.80 | 1.27 | 0.76 | 0.34 | 0.1940 | 5,150 | -65 | 200 | 27 | MS17986C310 | 4212.A10 |
| 3/16 | 0.1870 | 0.1885 | 1.3 | 0.220 | 0.260 | 0.310 | 0.500 | 1.80 | 1.27 | 0.76 | 0.34 | 0.1940 | 5,150 | -65 | 200 | 28 | MS17986C313 | 4212.A13 |
| 3/16 | 0.1870 | 0.1885 | 1.4 | 0.220 | 0.260 | 0.310 | 0.500 | 1.80 | 1.27 | 0.76 | 0.34 | 0.1940 | 5,150 | -65 | 200 | 27 | MS17986C314 | 4212.A14 |
| 3/16 | 0.1870 | 0.1885 | 1.6 | 0.220 | 0.260 | 0.310 | 0.500 | 1.80 | 1.27 | 0.76 | 0.34 | 0.1940 | 5,150 | -65 | 200 | 29 | MS17986C316 | 4212.A16 |
| 3/16 | 0.1870 | 0.1885 | 1.7 | 0.220 | 0.260 | 0.310 | 0.500 | 1.80 | 1.27 | 0.76 | 0.34 | 0.1940 | 5,150 | -65 | 200 | 31 | MS17986C317 | 4212.A17 |

| Nominal diameter A | A min. | A max. | Clamping length L +0.02 0 | Dimensions | | | | | | | | Location hole max. | Shearing resistance, two-shear min. | Temperature | | Standard description | Art. No. | |
|-----------------------|-----------|-----------|---------------------------------------|-------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------------|--|-------------|------|-------------------------|-------------|----------|
| | | | | B ±0.005 | C 0 -0.04 | D max. | E max. | F max. | G max. | H min. | K max. | | | min. | max. | | | |
| [inch] | [inch] | [inch] | [inch] | [inch] | | | | | | | | [inch] | [lbf] | [°F] | [g] | | | |
| 1/2 | 0.4970 | 0.4985 | 4.2 | 0.594 | 0.460 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5050 | 36,900 | -65 | 200 | 166 | MS17986C842 | 4212.F42 |
| 1/2 | 0.4970 | 0.4985 | 4.5 | 0.594 | 0.460 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5050 | 36,900 | -65 | 200 | 172 | MS17986C845 | 4212.F45 |
| 1/2 | 0.4970 | 0.4985 | 4.8 | 0.594 | 0.460 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5050 | 36,900 | -65 | 200 | - | MS17986C848 | 4212.F48 |
| 1/2 | 0.4970 | 0.4985 | 5.3 | 0.594 | 0.460 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5050 | 36,900 | -65 | 200 | - | MS17986C853 | 4212.F53 |
| 1/2 | 0.4970 | 0.4985 | 5.5 | 0.594 | 0.460 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5050 | 36,900 | -65 | 200 | - | MS17986C855 | 4212.F55 |
| 1/2 | 0.4970 | 0.4985 | 6.0 | 0.594 | 0.460 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5050 | 36,900 | -65 | 200 | - | MS17986C860 | 4212.F60 |
| 1/2 | 0.4970 | 0.4985 | 7.0 | 0.594 | 0.460 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5050 | 36,900 | -65 | 200 | - | MS17986C870 | 4212.F70 |
| 9/16 | 0.5595 | 0.5610 | 1.6 | 0.666 | 0.510 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5675 | 46,700 | -65 | 200 | - | MS17986C916 | 4212.G16 |
| 9/16 | 0.5595 | 0.5610 | 1.7 | 0.666 | 0.510 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5675 | 46,700 | -65 | 200 | 116 | MS17986C917 | 4212.G17 |
| 9/16 | 0.5595 | 0.5610 | 2.0 | 0.666 | 0.510 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5675 | 46,700 | -65 | 200 | - | MS17986C920 | 4212.G20 |
| 9/16 | 0.5595 | 0.5610 | 2.5 | 0.666 | 0.510 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5675 | 46,700 | -65 | 200 | 140 | MS17986C925 | 4212.G25 |
| 9/16 | 0.5595 | 0.5610 | 3.6 | 0.666 | 0.510 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5675 | 46,700 | -65 | 200 | 118 | MS17986C936 | 4212.G36 |
| 9/16 | 0.5595 | 0.5610 | 4.0 | 0.666 | 0.510 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5675 | 46,700 | -65 | 200 | 182 | MS17986C940 | 4212.G40 |
| 9/16 | 0.5595 | 0.5610 | 5.0 | 0.666 | 0.510 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5675 | 46,700 | -65 | 200 | 219 | MS17986C950 | 4212.G50 |
| 9/16 | 0.5595 | 0.5610 | 5.5 | 0.666 | 0.510 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5675 | 46,700 | -65 | 200 | - | MS17986C955 | 4212.G55 |
| 9/16 | 0.5595 | 0.5610 | 6.0 | 0.666 | 0.510 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5675 | 46,700 | -65 | 200 | 249 | MS17986C960 | 4212.G60 |
| 9/16 | 0.5595 | 0.5610 | 7.5 | 0.666 | 0.510 | 0.565 | 0.800 | 2.36 | 1.60 | 0.85 | 0.50 | 0.5675 | 46,700 | -65 | 200 | 298 | MS17986C975 | 4212.G75 |

Compliance

RoHS compliant

Compliant according to Directive 2011/65/EU and Directive 2015/863

Does not contain SVHC substances

No SVHC substances with more than 0.1% w/w contained - SVHC list [REACH] as of 10.06.2022

Does not contain Proposition 65 substances

No Proposition 65 substances included

<https://www.P65Warnings.ca.gov/>

Free from Conflict Minerals

This product does not contain any substances designated as "conflict minerals" such as tantalum, tin, gold or tungsten from the Democratic Republic of Congo or adjacent countries.