

Ball Lock Pins • single acting - comply with NAS / MS17985
EH 4211.**Product Description**

Ball Lock Pins according to MS17985 / NAS1333-1343 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 MS / NAS and tested to NAS 1332.

Surface treatment:

- All stainless steel parts are passivated according AMS2700
- All aluminium parts alloy anodized according MIL-A-8625

Heat treatment:

- Body: Rc. 40 min. (AMS2759, Condition H900)
- Spindle: Rc. 40 min. (AMS2759, Condition H900)
- Ball: Rc. 58-62 min. (AMS2759)

Material**Body**

- Stainless steel, precipitation-hardened, passivated - CRES 17-4PH (specification AMS5643)

Spindle

- Stainless steel, precipitation-hardened, passivated - CRES 17-4PH (specification AMS5643)

Spring

- Stainless steel, passivated - CRES 302 (specification ASTM-A-313)

Handle

- Aluminium, black anodised - Alum.Alloy A380 (specification ASTM B85/B85)

Attaching ring

- Stainless steel, passivated - CRES 302 (specification ASTM A-313/A313M)

Press button

- Stainless steel, passivated - CRES 303 (specification ASTM A484/484M)

Ball

- Stainless steel, precipitation-hardened, passivated - CRES 440C (specification AMS5630)

Operation

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

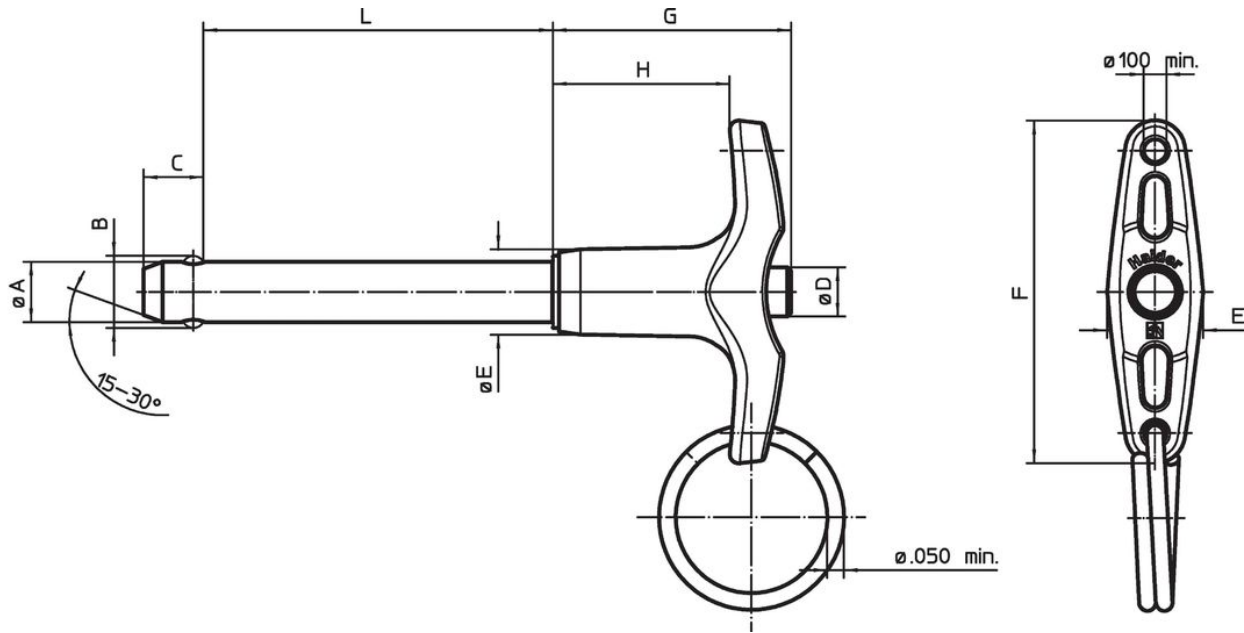
More information**Notes**

All further dimensions are available on request.

Other diameter / length combinations not listed which comply with the standard can be produced at short notice on customer request. Special types on request.



- This product is manufactured in INCH dimensions.



Drawing







Order information



| Nominal diameter A | A | | Clamping length L +0.02 0 | Dimensions | | | | | | Location hole max. | Shearing resistance, two-shear min. | Temperature | | Weight [g] | Standard description | Art. No. | |
|-----------------------|--------|--------|------------------------------------|-------------|------------|-------|-------|-------|------|-----------------------|---|-------------|------|---------------|----------------------|-----------------------------|----------|
| | min. | max. | | B | C | D | E | F | G | | | H | min. | | | | max. |
| [in] | [in] | [in] | [in] | ± 0.005 | 0 -0.04 | max. | max. | max. | max. | min. | [in] | [lbf] | [°F] | [g] | | | |
| 3/16 | 0.1870 | 0.1885 | 0.3 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 18.5 | MS17985C303 / NAS1333A2C03D | 4211.A03 |
| 3/16 | 0.1870 | 0.1885 | 0.4 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 18.8 | MS17985C304 / NAS1333A2C04D | 4211.A04 |
| 3/16 | 0.1870 | 0.1885 | 0.5 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 19.1 | MS17985C305 / NAS1333A2C05D | 4211.A05 |
| 3/16 | 0.1870 | 0.1885 | 0.6 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 19.5 | MS17985C306 / NAS1333A2C06D | 4211.A06 |
| 3/16 | 0.1870 | 0.1885 | 0.7 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 19.8 | MS17985C307 / NAS1333A2C07D | 4211.A07 |
| 3/16 | 0.1870 | 0.1885 | 0.8 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 20.2 | MS17985C308 / NAS1333A2C08D | 4211.A08 |
| 3/16 | 0.1870 | 0.1885 | 1.0 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 20.8 | MS17985C310 / NAS1333A2C10D | 4211.A10 |
| 3/16 | 0.1870 | 0.1885 | 1.1 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 21.2 | MS17985C310 / NAS1333A2C11D | 4211.A11 |
| 3/16 | 0.1870 | 0.1885 | 1.2 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 21.5 | MS17985C312 / NAS1333A2C12D | 4211.A12 |
| 3/16 | 0.1870 | 0.1885 | 1.3 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 21.9 | MS17985C313 / NAS1333A2C13D | 4211.A13 |
| 3/16 | 0.1870 | 0.1885 | 1.4 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 22.2 | MS17985C314 / NAS1333A2C14D | 4211.A14 |
| 3/16 | 0.1870 | 0.1885 | 1.5 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 22.5 | MS17985C315 / NAS1333A2C15D | 4211.A15 |
| 3/16 | 0.1870 | 0.1885 | 2.0 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 24.2 | MS17985C320 / NAS1333A2C20D | 4211.A20 |
| 3/16 | 0.1870 | 0.1885 | 2.1 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 24.6 | MS17985C321 / NAS1333A2C21D | 4211.A21 |
| 3/16 | 0.1870 | 0.1885 | 2.2 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 24.9 | MS17985C322 / NAS1333A2C22D | 4211.A22 |
| 3/16 | 0.1870 | 0.1885 | 2.3 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 25.3 | MS17985C323 / NAS1333A2C23D | 4211.A23 |
| 3/16 | 0.1870 | 0.1885 | 2.5 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 25.9 | MS17985C325 / NAS1333A2C25D | 4211.A25 |
| 3/16 | 0.1870 | 0.1885 | 2.6 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 26.3 | MS17985C326 / NAS1333A2C26D | 4211.A26 |



| Nominal diameter A | A min. | A max. | Clamping length L +0.02 0 | Dimensions | | | | | | | Location hole max. | Shearing resistance, two-shear min. |  | |  | Standard description | Art. No. |
|-----------------------|-----------|-----------|---------------------------------------|-------------|-----------------|-----------|-----------|-----------|-----------|-----------|--------------------------|--|---|------|---|-----------------------------|----------|
| | | | | B ±0.005 | C 0 -0.04 | D max. | E max. | F max. | G max. | H min. | | | min. | max. | | | |
| [in] | [in] | [in] | [in] | [in] | | | | | | | [in] | [lbf] | [°F] | | [g] | | |
| 3/16 | 0.1870 | 0.1885 | 4.5 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 32.7 | MS17985C345 / NAS1333A2C45D | 4211.A45 |
| 3/16 | 0.1870 | 0.1885 | 5.5 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | - | MS17985C355 / NAS1333A2C55D | 4211.A55 |
| 3/16 | 0.1870 | 0.1885 | 6.0 | 0.220 | 0.260 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.1940 | 5,150 | -65 | 200 | 37.8 | MS17985C360 / NAS1333A2C60D | 4211.A60 |
| 1/4 | 0.2470 | 0.2485 | 0.5 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 21.5 | MS17985C405 / NAS1334A2C05D | 4211.B05 |
| 1/4 | 0.2470 | 0.2485 | 0.6 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 22.1 | MS17985C406 / NAS1334A2C06D | 4211.B06 |
| 1/4 | 0.2470 | 0.2485 | 0.7 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 22.7 | MS17985C407 / NAS1334A2C07D | 4211.B07 |
| 1/4 | 0.2470 | 0.2485 | 0.8 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 23.3 | MS17985C408 / NAS1334A2C08D | 4211.B08 |
| 1/4 | 0.2470 | 0.2485 | 0.9 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 23.9 | MS17985C409 / NAS1334A2C09D | 4211.B09 |
| 1/4 | 0.2470 | 0.2485 | 1.0 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 24.5 | MS17985C410 / NAS1334A2C10D | 4211.B10 |
| 1/4 | 0.2470 | 0.2485 | 1.1 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 25.2 | MS17985C411 / NAS1334A2C11D | 4211.B11 |
| 1/4 | 0.2470 | 0.2485 | 1.2 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 25.8 | MS17985C412 / NAS1334A2C12D | 4211.B12 |
| 1/4 | 0.2470 | 0.2485 | 1.3 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 26.4 | MS17985C413 / NAS1334A2C13D | 4211.B13 |
| 1/4 | 0.2470 | 0.2485 | 1.4 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 27.0 | MS17985C414 / NAS1334A2C14D | 4211.B14 |
| 1/4 | 0.2470 | 0.2485 | 1.5 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 27.6 | MS17985C415 / NAS1334A2C15D | 4211.B15 |
| 1/4 | 0.2470 | 0.2485 | 1.6 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 28.2 | MS17985C416 / NAS1334A2C16D | 4211.B16 |
| 1/4 | 0.2470 | 0.2485 | 1.7 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 28.8 | MS17985C417 / NAS1334A2C17D | 4211.B17 |
| 1/4 | 0.2470 | 0.2485 | 1.8 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 29.5 | MS17985C418 / NAS1334A2C18D | 4211.B18 |
| 1/4 | 0.2470 | 0.2485 | 2.0 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 30.7 | MS17985C420 / NAS1334A2C20D | 4211.B20 |
| 1/4 | 0.2470 | 0.2485 | 2.1 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 31.3 | MS17985C421 / NAS1334A2C21D | 4211.B21 |
| 1/4 | 0.2470 | 0.2485 | 2.3 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 32.5 | MS17985C423 / NAS1334A2C23D | 4211.B23 |
| 1/4 | 0.2470 | 0.2485 | 2.4 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 33.1 | MS17985C424 / NAS1334A2C24D | 4211.B24 |
| 1/4 | 0.2470 | 0.2485 | 2.5 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 33.8 | MS17985C425 / NAS1334A2C25D | 4211.B25 |
| 1/4 | 0.2470 | 0.2485 | 2.6 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 34.4 | MS17985C426 / NAS1334A2C26D | 4211.B26 |
| 1/4 | 0.2470 | 0.2485 | 2.7 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 35.0 | MS17985C427 / NAS1334A2C27D | 4211.B27 |
| 1/4 | 0.2470 | 0.2485 | 2.8 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 35.6 | MS17985C428 / NAS1334A2C28D | 4211.B28 |
| 1/4 | 0.2470 | 0.2485 | 2.9 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 36.2 | MS17985C429 / NAS1334A2C29D | 4211.B29 |
| 1/4 | 0.2470 | 0.2485 | 3.0 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 36.8 | MS17985C430 / NAS1334A2C30D | 4211.B30 |
| 1/4 | 0.2470 | 0.2485 | 3.1 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 37.4 | MS17985C431 / NAS1334A2C31D | 4211.B31 |
| 1/4 | 0.2470 | 0.2485 | 3.2 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 38.1 | MS17985C432 / NAS1334A2C32D | 4211.B32 |
| 1/4 | 0.2470 | 0.2485 | 3.3 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 39.0 | MS17985C433 / NAS1334A2C33D | 4211.B33 |
| 1/4 | 0.2470 | 0.2485 | 3.5 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 39.9 | MS17985C435 / NAS1334A2C35D | 4211.B35 |
| 1/4 | 0.2470 | 0.2485 | 4.0 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 43.0 | MS17985C440 / NAS1334A2C40D | 4211.B40 |



| Nominal diameter A | A min. | A max. | Clamping length L +0.02 0 | Dimensions | | | | | | | Location hole max. | Shearing resistance, two-shear min. |  | |  | Standard description | Art. No. |
|-----------------------|-----------|-----------|---------------------------------------|-------------|-----------------|-----------|-----------|-----------|-----------|-----------|--------------------------|--|---|------|---|--------------------------------|----------|
| | | | | B ±0.005 | C 0 -0.04 | D max. | E max. | F max. | G max. | H min. | | | min. | max. | | | |
| [in] | [in] | [in] | [in] | [in] | | | | | | | [in] | [lbf] | [°F] | | [g] | | |
| 1/4 | 0.2470 | 0.2485 | 5.0 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 49.1 | MS17985C450 / NAS1334A2C50D | 4211.B50 |
| 1/4 | 0.2470 | 0.2485 | 5.2 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 50.4 | MS17985C452 / NAS1334A2C52D | 4211.B52 |
| 1/4 | 0.2470 | 0.2485 | 6.0 | 0.289 | 0.290 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.2540 | 9,200 | -65 | 200 | 55.3 | MS17985C460 / NAS1334A2C60D | 4211.B60 |
| 5/16 | 0.3095 | 0.3110 | 0.3 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 23.1 | MS17985C503 / NAS1335A2C03D | 4211.C03 |
| 5/16 | 0.3095 | 0.3110 | 0.4 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 24.0 | MS17985C504 / NAS1335A2C04D | 4211.C04 |
| 5/16 | 0.3095 | 0.3110 | 0.5 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 25.0 | MS17985C505 / NAS1335A2C05D | 4211.C05 |
| 5/16 | 0.3095 | 0.3110 | 0.6 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 26.0 | MS17985C506 / NAS1335A2C06D | 4211.C06 |
| 5/16 | 0.3095 | 0.3110 | 0.8 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 27.8 | MS17985C508 / NAS1335A2C08D | 4211.C08 |
| 5/16 | 0.3095 | 0.3110 | 0.9 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 28.8 | MS17985C509 / NAS1335A2C09D | 4211.C09 |
| 5/16 | 0.3095 | 0.3110 | 1.0 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 29.7 | MS17985C510 / NAS1335A2C10D | 4211.C10 |
| 5/16 | 0.3095 | 0.3110 | 1.1 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 30.7 | MS17985C511 / NAS1335A2C11D | 4211.C11 |
| 5/16 | 0.3095 | 0.3110 | 1.2 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 31.6 | MS17985C512 / NAS1335A2C12D | 4211.C12 |
| 5/16 | 0.3095 | 0.3110 | 1.3 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 32.6 | MS17985C513 / NAS1335A2C13D | 4211.C13 |
| 5/16 | 0.3095 | 0.3110 | 1.5 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 34.5 | MS17985C515 / NAS1335A2C15D | 4211.C15 |
| 5/16 | 0.3095 | 0.3110 | 1.6 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 35.4 | MS17985C516 / NAS1335A2C16D | 4211.C16 |
| 5/16 | 0.3095 | 0.3110 | 1.8 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 37.3 | MS17985C518 / NAS1335A2C18D | 4211.C18 |
| 5/16 | 0.3095 | 0.3110 | 2.0 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 39.2 | MS17985C520 / NAS1335A2C20D | 4211.C20 |
| 5/16 | 0.3095 | 0.3110 | 2.2 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 41.1 | MS17985C522 / NAS1335A2C22D | 4211.C22 |
| 5/16 | 0.3095 | 0.3110 | 2.3 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 42.0 | MS17985C523 / NAS1335A2C23D | 4211.C23 |
| 5/16 | 0.3095 | 0.3110 | 2.4 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 43.0 | MS17985C524 / NAS1335A2C24D | 4211.C24 |
| 5/16 | 0.3095 | 0.3110 | 2.5 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 43.9 | MS17985C525 / NAS1335A2C25D | 4211.C25 |
| 5/16 | 0.3095 | 0.3110 | 2.6 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 44.9 | MS17985C526 / NAS1335A2C26D | 4211.C26 |
| 5/16 | 0.3095 | 0.3110 | 2.7 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 46.0 | MS17985C527 / NAS1335A2C27D | 4211.C27 |
| 5/16 | 0.3095 | 0.3110 | 2.8 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 46.8 | MS17985C528 / NAS1335A2C28D | 4211.C28 |
| 5/16 | 0.3095 | 0.3110 | 2.9 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 47.7 | MS17985C529 / NAS1335A2C29D | 4211.C29 |
| 5/16 | 0.3095 | 0.3110 | 3.0 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 48.7 | MS17985C530 / NAS1335A2C30D | 4211.C30 |
| 5/16 | 0.3095 | 0.3110 | 3.2 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 50.6 | MS17985C532 / NAS1335A2C32D | 4211.C32 |
| 5/16 | 0.3095 | 0.3110 | 3.3 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 51.5 | MS17985C533 / NAS1335A2C33D | 4211.C33 |
| 5/16 | 0.3095 | 0.3110 | 3.4 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 52.4 | MS17985C534 / NAS1335A2C34D | 4211.C34 |
| 5/16 | 0.3095 | 0.3110 | 3.5 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 53.4 | MS17985C535 / NAS1335A2C35D | 4211.C35 |
| 5/16 | 0.3095 | 0.3110 | 3.8 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 56.2 | MS17985C538 / NAS1335A2C38D | 4211.C38 |
| 5/16 | 0.3095 | 0.3110 | 4.0 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 58.1 | MS17985C540 / NAS1335A2C40D | 4211.C40 |

| Nominal diameter A | A min. | A max. | Clamping length L +0.02 0 | Dimensions | | | | | | | Location hole max. | Shearing resistance, two-shear min. |  | |  | Standard description | Art. No. |
|-----------------------|-----------|-----------|---------------------------------------|-------------|-----------------|-----------|-----------|-----------|-----------|-----------|--------------------------|--|---|------|---|--------------------------------|----------|
| | | | | B ±0.005 | C 0 -0.04 | D max. | E max. | F max. | G max. | H min. | | | min. | max. | | | |
| [in] | [in] | [in] | [in] | [in] | | | | | | | [in] | [lbf] | [°F] | | [g] | | |
| 5/16 | 0.3095 | 0.3110 | 4.1 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 59.1 | MS17985C541 / NAS1335A2C41D | 4211.C41 |
| 5/16 | 0.3095 | 0.3110 | 4.2 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 60.0 | MS17985C542 / NAS1335A2C42D | 4211.C42 |
| 5/16 | 0.3095 | 0.3110 | 4.3 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 61.0 | MS17985C543 / NAS1335A2C43D | 4211.C43 |
| 5/16 | 0.3095 | 0.3110 | 5.0 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 67.6 | MS17985C550 / NAS1335A2C50D | 4211.C50 |
| 5/16 | 0.3095 | 0.3110 | 6.0 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 77.1 | MS17985C560 / NAS1335A2C60D | 4211.C60 |
| 5/16 | 0.3095 | 0.3110 | 6.4 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 80.8 | MS17985C564 / NAS1335A2C64D | 4211.C64 |
| 5/16 | 0.3095 | 0.3110 | 7.0 | 0.375 | 0.330 | 0.310 | 0.500 | 1.815 | 1.27 | 0.800 | 0.3165 | 14,400 | -65 | 200 | 86.5 | MS17985C570 / NAS1335A2C70D | 4211.C70 |
| 3/8 | 0.3720 | 0.3735 | 0.5 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 38.1 | MS17985C605 / NAS1336A2C05D | 4211.D05 |
| 3/8 | 0.3720 | 0.3735 | 0.7 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 40.8 | MS17985C607 / NAS1336A2C07D | 4211.D07 |
| 3/8 | 0.3720 | 0.3735 | 0.8 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 42.2 | MS17985C608 / NAS1336A2C08D | 4211.D08 |
| 3/8 | 0.3720 | 0.3735 | 0.9 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 43.5 | MS17985C609 / NAS1336A2C09D | 4211.D09 |
| 3/8 | 0.3720 | 0.3735 | 1.0 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 44.9 | MS17985C610 / NAS1336A2C10D | 4211.D10 |
| 3/8 | 0.3720 | 0.3735 | 1.1 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 46.3 | MS17985C611 / NAS1336A2C11D | 4211.D11 |
| 3/8 | 0.3720 | 0.3735 | 1.2 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 47.6 | MS17985C612 / NAS1336A2C12D | 4211.D12 |
| 3/8 | 0.3720 | 0.3735 | 1.3 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 49.0 | MS17985C613 / NAS1336A2C13D | 4211.D13 |
| 3/8 | 0.3720 | 0.3735 | 1.4 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 50.3 | MS17985C614 / NAS1336A2C14D | 4211.D14 |
| 3/8 | 0.3720 | 0.3735 | 1.5 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 51.7 | MS17985C615 / NAS1336A2C15D | 4211.D15 |
| 3/8 | 0.3720 | 0.3735 | 1.6 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 53.1 | MS17985C616 / NAS1336A2C16D | 4211.D16 |
| 3/8 | 0.3720 | 0.3735 | 1.7 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 54.4 | MS17985C617 / NAS1336A2C17D | 4211.D17 |
| 3/8 | 0.3720 | 0.3735 | 1.8 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 55.8 | MS17985C618 / NAS1336A2C18D | 4211.D18 |
| 3/8 | 0.3720 | 0.3735 | 1.9 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 57.1 | MS17985C619 / NAS1336A2C19D | 4211.D19 |
| 3/8 | 0.3720 | 0.3735 | 2.0 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 58.5 | MS17985C620 / NAS1336A2C20D | 4211.D20 |
| 3/8 | 0.3720 | 0.3735 | 2.1 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 59.9 | MS17985C621 / NAS1336A2C21D | 4211.D21 |
| 3/8 | 0.3720 | 0.3735 | 2.2 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 61.2 | MS17985C622 / NAS1336A2C22D | 4211.D22 |
| 3/8 | 0.3720 | 0.3735 | 2.3 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 63.0 | MS17985C623 / NAS1336A2C23D | 4211.D23 |
| 3/8 | 0.3720 | 0.3735 | 2.4 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 63.9 | MS17985C624 / NAS1336A2C24D | 4211.D24 |
| 3/8 | 0.3720 | 0.3735 | 2.5 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 65.3 | MS17985C625 / NAS1336A2C25D | 4211.D25 |
| 3/8 | 0.3720 | 0.3735 | 2.6 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 66.7 | MS17985C626 / NAS1336A2C26D | 4211.D26 |
| 3/8 | 0.3720 | 0.3735 | 2.7 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 68.0 | MS17985C627 / NAS1336A2C27D | 4211.D27 |
| 3/8 | 0.3720 | 0.3735 | 2.8 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 69.4 | MS17985C628 / NAS1336A2C28D | 4211.D28 |
| 3/8 | 0.3720 | 0.3735 | 3.0 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 72.1 | MS17985C630 / NAS1336A2C30D | 4211.D30 |
| 3/8 | 0.3720 | 0.3735 | 3.1 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 73.5 | MS17985C631 / NAS1336A2C31D | 4211.D31 |

| Nominal diameter A | A min. | A max. | Clamping length L +0.02 0 | Dimensions | | | | | | | Location hole max. | Shearing resistance, two-shear min. |  min. max. | |  [g] | Standard description | Art. No. |
|-----------------------|-----------|-----------|---------------------------------------|-------------|-----------------|-----------|-----------|-----------|-----------|-----------|--------------------------|--|--|-------|--|-----------------------------|----------|
| | | | | B ±0.005 | C 0 -0.04 | D max. | E max. | F max. | G max. | H min. | | | [in] | [lbF] | | | |
| [in] | [in] | [in] | [in] | [in] | | | | | | | [in] | [lbF] | [°F] | | [g] | | |
| 3/8 | 0.3720 | 0.3735 | 3.2 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 74.8 | MS17985C632 / NAS1336A2C32D | 4211.D32 |
| 3/8 | 0.3720 | 0.3735 | 3.4 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 77.5 | MS17985C634 / NAS1336A2C34D | 4211.D34 |
| 3/8 | 0.3720 | 0.3735 | 3.5 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 78.9 | MS17985C635 / NAS1336A2C35D | 4211.D35 |
| 3/8 | 0.3720 | 0.3735 | 4.0 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 85.7 | MS17985C640 / NAS1336A2C40D | 4211.D40 |
| 3/8 | 0.3720 | 0.3735 | 4.2 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 89.0 | MS17985C642 / NAS1336A2C42D | 4211.D42 |
| 3/8 | 0.3720 | 0.3735 | 4.5 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 92.5 | MS17985C645 / NAS1336A2C45D | 4211.D45 |
| 3/8 | 0.3720 | 0.3735 | 4.8 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 96.6 | MS17985C648 / NAS1336A2C48D | 4211.D48 |
| 3/8 | 0.3720 | 0.3735 | 5.0 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 99.3 | MS17985C650 / NAS1336A2C50D | 4211.D50 |
| 3/8 | 0.3720 | 0.3735 | 5.5 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 106.0 | MS17985C655 / NAS1336A2C55D | 4211.D55 |
| 3/8 | 0.3720 | 0.3735 | 6.0 | 0.440 | 0.365 | 0.390 | 0.625 | 2.065 | 1.45 | 0.850 | 0.3790 | 20,700 | -65 | 200 | 113.0 | MS17985C660 / NAS1336A2C60D | 4211.D60 |
| 7/16 | 0.4345 | 0.4360 | 0.8 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 48.1 | MS17985C708 / NAS1337A2C08D | 4211.E08 |
| 7/16 | 0.4345 | 0.4360 | 1.0 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 51.8 | MS17985C710 / NAS1337A2C10D | 4211.E10 |
| 7/16 | 0.4345 | 0.4360 | 1.1 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 53.6 | MS17985C711 / NAS1337A2C11D | 4211.E11 |
| 7/16 | 0.4345 | 0.4360 | 1.2 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 55.5 | MS17985C712 / NAS1337A2C12D | 4211.E12 |
| 7/16 | 0.4345 | 0.4360 | 1.5 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 61.1 | MS17985C715 / NAS1337A2C15D | 4211.E15 |
| 7/16 | 0.4345 | 0.4360 | 1.8 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 66.7 | MS17985C718 / NAS1337A2C18D | 4211.E18 |
| 7/16 | 0.4345 | 0.4360 | 2.0 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 70.4 | MS17985C720 / NAS1337A2C20D | 4211.E20 |
| 7/16 | 0.4345 | 0.4360 | 2.1 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 72.2 | MS17985C721 / NAS1337A2C21D | 4211.E21 |
| 7/16 | 0.4345 | 0.4360 | 2.3 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 75.9 | MS17985C723 / NAS1337A2C23D | 4211.E23 |
| 7/16 | 0.4345 | 0.4360 | 2.4 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 77.8 | MS17985C724 / NAS1337A2C24D | 4211.E24 |
| 7/16 | 0.4345 | 0.4360 | 2.5 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 79.6 | MS17985C725 / NAS1337A2C25D | 4211.E25 |
| 7/16 | 0.4345 | 0.4360 | 2.6 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 81.5 | MS17985C726 / NAS1337A2C26D | 4211.E26 |
| 7/16 | 0.4345 | 0.4360 | 2.7 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 83.0 | MS17985C727 / NAS1337A2C27D | 4211.E27 |
| 7/16 | 0.4345 | 0.4360 | 2.8 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 85.2 | MS17985C728 / NAS1337A2C28D | 4211.E28 |
| 7/16 | 0.4345 | 0.4360 | 2.9 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 87.1 | MS17985C729 / NAS1337A2C29D | 4211.E29 |
| 7/16 | 0.4345 | 0.4360 | 3.0 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 88.9 | MS17985C730 / NAS1337A2C30D | 4211.E30 |
| 7/16 | 0.4345 | 0.4360 | 3.1 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 90.8 | MS17985C731 / NAS1337A2C31D | 4211.E31 |
| 7/16 | 0.4345 | 0.4360 | 3.2 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 92.6 | MS17985C732 / NAS1337A2C32D | 4211.E32 |
| 7/16 | 0.4345 | 0.4360 | 3.3 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 94.5 | MS17985C733 / NAS1337A2C33D | 4211.E33 |
| 7/16 | 0.4345 | 0.4360 | 3.6 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 100.0 | MS17985C736 / NAS1337A2C36D | 4211.E36 |
| 7/16 | 0.4345 | 0.4360 | 4.0 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 107.0 | MS17985C740 / NAS1337A2C40D | 4211.E40 |
| 7/16 | 0.4345 | 0.4360 | 4.2 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 111.0 | MS17985C742 / NAS1337A2C42D | 4211.E42 |

| Nominal diameter A | A min. | A max. | Clamping length L +0.02 0 | Dimensions | | | | | | | Location hole max. | Shearing resistance, two-shear min. |  min. max. | |  [g] | Standard description | Art. No. |
|-----------------------|-----------|-----------|---------------------------------------|-------------|-----------------|-----------|-----------|-----------|-----------|-----------|--------------------------|--|--|-------|--|-----------------------------|----------|
| | | | | B ±0.005 | C 0 -0.04 | D max. | E max. | F max. | G max. | H min. | | | [in] | [lbF] | | | |
| [in] | [in] | [in] | [in] | [in] | | | | | | | [in] | [lbF] | [°F] | | [g] | | |
| 7/16 | 0.4345 | 0.4360 | 4.6 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 119.0 | MS17985C746 / NAS1337A2C46D | 4211.E46 |
| 7/16 | 0.4345 | 0.4360 | 5.0 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 126.0 | MS17985C750 / NAS1337A2C50D | 4211.E50 |
| 7/16 | 0.4345 | 0.4360 | 5.3 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 132.0 | MS17985C753 / NAS1337A2C53D | 4211.E53 |
| 7/16 | 0.4345 | 0.4360 | 5.5 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 135.0 | MS17985C755 / NAS1337A2C55D | 4211.E55 |
| 7/16 | 0.4345 | 0.4360 | 5.6 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.47 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 137.0 | MS17985C756 / NAS1337A2C56D | 4211.E56 |
| 7/16 | 0.4345 | 0.4360 | 7.2 | 0.509 | 0.380 | 0.390 | 0.625 | 2.065 | 1.60 | 0.850 | 0.4425 | 28,500 | -65 | 200 | 167.0 | MS17985C772 / NAS1337A2C72D | 4211.E72 |
| 1/2 | 0.4970 | 0.4985 | 0.8 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 69.6 | MS17985C808 / NAS1338A2C08D | 4211.F08 |
| 1/2 | 0.4970 | 0.4985 | 0.9 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 72.1 | MS17985C809 / NAS1338A2C09D | 4211.F09 |
| 1/2 | 0.4970 | 0.4985 | 1.0 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 74.4 | MS17985C810 / NAS1338A2C10D | 4211.F10 |
| 1/2 | 0.4970 | 0.4985 | 1.1 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 76.9 | MS17985C811 / NAS1338A2C11D | 4211.F11 |
| 1/2 | 0.4970 | 0.4985 | 1.2 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 79.3 | MS17985C812 / NAS1338A2C12D | 4211.F12 |
| 1/2 | 0.4970 | 0.4985 | 1.3 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 81.8 | MS17985C813 / NAS1338A2C13D | 4211.F13 |
| 1/2 | 0.4970 | 0.4985 | 1.4 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 84.2 | MS17985C814 / NAS1338A2C14D | 4211.F14 |
| 1/2 | 0.4970 | 0.4985 | 1.5 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 86.6 | MS17985C815 / NAS1338A2C15D | 4211.F15 |
| 1/2 | 0.4970 | 0.4985 | 1.6 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 89.1 | MS17985C816 / NAS1338A2C16D | 4211.F16 |
| 1/2 | 0.4970 | 0.4985 | 1.7 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 91.5 | MS17985C817 / NAS1338A2C17D | 4211.F17 |
| 1/2 | 0.4970 | 0.4985 | 1.8 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 94.0 | MS17985C818 / NAS1338A2C18D | 4211.F18 |
| 1/2 | 0.4970 | 0.4985 | 1.9 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 96.4 | MS17985C819 / NAS1338A2C19D | 4211.F19 |
| 1/2 | 0.4970 | 0.4985 | 2.0 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 98.8 | MS17985C820 / NAS1338A2C20D | 4211.F20 |
| 1/2 | 0.4970 | 0.4985 | 2.1 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 101.0 | MS17985C821 / NAS1338A2C21D | 4211.F21 |
| 1/2 | 0.4970 | 0.4985 | 2.2 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 104.0 | MS17985C822 / NAS1338A2C22D | 4211.F22 |
| 1/2 | 0.4970 | 0.4985 | 2.3 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 106.0 | MS17985C823 / NAS1338A2C23D | 4211.F23 |
| 1/2 | 0.4970 | 0.4985 | 2.4 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 109.0 | MS17985C824 / NAS1338A2C24D | 4211.F24 |
| 1/2 | 0.4970 | 0.4985 | 2.5 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 111.0 | MS17985C825 / NAS1338A2C25D | 4211.F25 |
| 1/2 | 0.4970 | 0.4985 | 2.6 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 114.0 | MS17985C826 / NAS1338A2C26D | 4211.F26 |
| 1/2 | 0.4970 | 0.4985 | 2.8 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 118.0 | MS17985C828 / NAS1338A2C28D | 4211.F28 |
| 1/2 | 0.4970 | 0.4985 | 2.9 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 121.0 | MS17985C829 / NAS1338A2C29D | 4211.F29 |
| 1/2 | 0.4970 | 0.4985 | 3.0 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 123.0 | MS17985C830 / NAS1338A2C30D | 4211.F30 |
| 1/2 | 0.4970 | 0.4985 | 3.1 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 126.0 | MS17985C831 / NAS1338A2C31D | 4211.F31 |
| 1/2 | 0.4970 | 0.4985 | 3.2 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 128.0 | MS17985C832 / NAS1338A2C32D | 4211.F32 |
| 1/2 | 0.4970 | 0.4985 | 3.3 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 138.0 | MS17985C833 / NAS1338A2C33D | 4211.F33 |
| 1/2 | 0.4970 | 0.4985 | 3.4 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 133.0 | MS17985C834 / NAS1338A2C34D | 4211.F34 |

| Nominal diameter A | A min. | A max. | Clamping length L +0.02 0 | Dimensions | | | | | | | Location hole max. | Shearing resistance, two-shear min. |  min. max. | |  [g] | Standard description | Art. No. |
|-----------------------|-----------|-----------|---------------------------------------|-------------|-----------------|-----------|-----------|-----------|-----------|-----------|--------------------------|--|--|-------|--|------------------------------|----------|
| | | | | B ±0.005 | C 0 -0.04 | D max. | E max. | F max. | G max. | H min. | | | [in] | [lbF] | | | |
| [in] | [in] | [in] | [in] | [in] | | | | | | | [in] | [lbF] | [°F] | | [g] | | |
| 1/2 | 0.4970 | 0.4985 | 3.5 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 135.0 | MS17985C835 / NAS1338A2C35D | 4211.F35 |
| 1/2 | 0.4970 | 0.4985 | 3.6 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 138.0 | MS17985C836 / NAS1338A2C36D | 4211.F36 |
| 1/2 | 0.4970 | 0.4985 | 3.7 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 140.0 | MS17985C837 / NAS1338A2C37D | 4211.F37 |
| 1/2 | 0.4970 | 0.4985 | 4.0 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 148.0 | MS17985C840 / NAS1338A2C40D | 4211.F40 |
| 1/2 | 0.4970 | 0.4985 | 4.2 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 153.0 | MS17985C842 / NAS1338A2C42D | 4211.F42 |
| 1/2 | 0.4970 | 0.4985 | 4.3 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 155.0 | MS17985C843 / NAS1338A2C43D | 4211.F43 |
| 1/2 | 0.4970 | 0.4985 | 4.4 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 157.0 | MS17985C844 / NAS1338A2C44D | 4211.F44 |
| 1/2 | 0.4970 | 0.4985 | 4.5 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 160.0 | MS17985C845 / NAS1338A2C45D | 4211.F45 |
| 1/2 | 0.4970 | 0.4985 | 4.6 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 162.0 | MS17985C846 / NAS1338A2C46D | 4211.F46 |
| 1/2 | 0.4970 | 0.4985 | 4.7 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 165.0 | MS17985C847 / NAS1338A2C47D | 4211.F47 |
| 1/2 | 0.4970 | 0.4985 | 4.8 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 167.0 | MS17985C848 / NAS1338A2C48D | 4211.F48 |
| 1/2 | 0.4970 | 0.4985 | 5.0 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 172.0 | MS17985C850 / NAS1338A2C50D | 4211.F50 |
| 1/2 | 0.4970 | 0.4985 | 5.5 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 184.0 | MS17985C855 / NAS1338A2C55D | 4211.F55 |
| 1/2 | 0.4970 | 0.4985 | 6.0 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 196.0 | MS17985C860 / NAS1338A2C60D | 4211.F60 |
| 1/2 | 0.4970 | 0.4985 | 6.4 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 206.0 | MS17985C864 / NAS1338A2C64D | 4211.F64 |
| 1/2 | 0.4970 | 0.4985 | 8.0 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 245.0 | MS17985C880 / NAS1338A2C80D | 4211.F80 |
| 1/2 | 0.4970 | 0.4985 | 9.0 | 0.594 | 0.460 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5050 | 36,900 | -65 | 200 | 270.0 | MS17985C890 / NAS1338A2C90D | 4211.F90 |
| 9/16 | 0.5595 | 0.5610 | 1.0 | 0.666 | 0.510 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5675 | 46,700 | -65 | 200 | 84.9 | MS17985C910 / NAS1339A2C10D | 4211.G10 |
| 9/16 | 0.5595 | 0.5610 | 1.2 | 0.666 | 0.510 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5675 | 46,700 | -65 | 200 | 91.2 | MS17985C912 / NAS1339A2C12D | 4211.G12 |
| 9/16 | 0.5595 | 0.5610 | 1.7 | 0.666 | 0.510 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5675 | 46,700 | -65 | 200 | 107.0 | MS17985C917 / NAS1339A2C17D | 4211.G17 |
| 9/16 | 0.5595 | 0.5610 | 2.4 | 0.666 | 0.510 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5675 | 46,700 | -65 | 200 | 128.0 | MS17985C924 / NAS1339A2C24D | 4211.G24 |
| 9/16 | 0.5595 | 0.5610 | 2.5 | 0.666 | 0.510 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5675 | 46,700 | -65 | 200 | 132.0 | MS17985C925 / NAS1339A2C25D | 4211.G25 |
| 9/16 | 0.5595 | 0.5610 | 3.2 | 0.666 | 0.510 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5675 | 46,700 | -65 | 200 | 153.0 | MS17985C932 / NAS1339A2C32D | 4211.G32 |
| 9/16 | 0.5595 | 0.5610 | 3.6 | 0.666 | 0.510 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5675 | 46,700 | -65 | 200 | 166.0 | MS17985C936 / NAS1339A2C36D | 4211.G36 |
| 9/16 | 0.5595 | 0.5610 | 4.0 | 0.666 | 0.510 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5675 | 46,700 | -65 | 200 | 178.0 | MS17985C940 / NAS1339A2C40D | 4211.G40 |
| 9/16 | 0.5595 | 0.5610 | 5.0 | 0.666 | 0.510 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5675 | 46,700 | -65 | 200 | 209.0 | MS17985C950 / NAS1339A2C50D | 4211.G50 |
| 9/16 | 0.5595 | 0.5610 | 5.5 | 0.666 | 0.510 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5675 | 46,700 | -65 | 200 | 225.0 | MS17985C955 / NAS1339A2C55D | 4211.G55 |
| 9/16 | 0.5595 | 0.5610 | 6.1 | 0.666 | 0.510 | 0.565 | 0.800 | 2.345 | 1.60 | 0.885 | 0.5675 | 46,700 | -65 | 200 | 244.0 | MS17985C961 / NAS1339A2C61D | 4211.G61 |
| 5/8 | 0.6220 | 0.6240 | 1.4 | 0.750 | 0.580 | 0.580 | 0.975 | 3.100 | 1.70 | 0.980 | 0.6300 | 57,800 | -65 | 200 | 147.0 | MS17985C1014 / NAS1340A2C14D | 4211.H14 |
| 5/8 | 0.6220 | 0.6240 | 1.5 | 0.750 | 0.580 | 0.580 | 0.975 | 3.100 | 1.70 | 0.980 | 0.6300 | 57,800 | -65 | 200 | 151.0 | MS17985C1015 / NAS1340A2C15D | 4211.H15 |
| 5/8 | 0.6220 | 0.6240 | 1.8 | 0.750 | 0.580 | 0.580 | 0.975 | 3.100 | 1.70 | 0.980 | 0.6300 | 57,800 | -65 | 200 | 162.0 | MS17985C1018 / NAS1340A2C18D | 4211.H18 |
| 5/8 | 0.6220 | 0.6240 | 2.0 | 0.750 | 0.580 | 0.580 | 0.975 | 3.100 | 1.70 | 0.980 | 0.6300 | 57,800 | -65 | 200 | 170.0 | MS17985C1020 / NAS1340A2C20D | 4211.H20 |

| Nominal diameter A | A min. | A max. | Clamping length L +0.02 0 | Dimensions | | | | | | | Location hole max. | Shearing resistance, two-shear min. |  | |  | Standard description | Art. No. |
|-----------------------|-----------|-----------|---------------------------------------|-------------|-----------------|-----------|-----------|-----------|-----------|-----------|--------------------------|--|---|------|---|---------------------------------|----------|
| | | | | B ±0.005 | C 0 -0.04 | D max. | E max. | F max. | G max. | H min. | | | min. | max. | | | |
| [in] | [in] | [in] | [in] | [in] | | | | | | | [in] | [lbf] | [°F] | | [g] | | |
| 5/8 | 0.6220 | 0.6240 | 2.5 | 0.750 | 0.580 | 0.580 | 0.975 | 3.100 | 1.70 | 0.980 | 0.6300 | 57,800 | -65 | 200 | 190.0 | MS17985C1025 / NAS1340A2C25D | 4211.H25 |
| 5/8 | 0.6220 | 0.6240 | 2.6 | 0.750 | 0.580 | 0.580 | 0.975 | 3.100 | 1.70 | 0.980 | 0.6300 | 57,800 | -65 | 200 | 193.0 | MS17985C1026 / NAS1340A2C26D | 4211.H26 |
| 5/8 | 0.6220 | 0.6240 | 3.2 | 0.750 | 0.580 | 0.580 | 0.975 | 3.100 | 1.70 | 0.980 | 0.6300 | 57,800 | -65 | 200 | 216.0 | MS17985C1032 / NAS1340A2C32D | 4211.H32 |
| 5/8 | 0.6220 | 0.6240 | 3.5 | 0.750 | 0.580 | 0.580 | 0.975 | 3.100 | 1.70 | 0.980 | 0.6300 | 57,800 | -65 | 200 | 228.0 | MS17985C1035 / NAS1340A2C35D | 4211.H35 |
| 5/8 | 0.6220 | 0.6240 | 4.0 | 0.750 | 0.580 | 0.580 | 0.975 | 3.100 | 1.70 | 0.980 | 0.6300 | 57,800 | -65 | 200 | 247.0 | MS17985C1040 / NAS1340A2C40D | 4211.H40 |
| 5/8 | 0.6220 | 0.6240 | 4.5 | 0.750 | 0.580 | 0.580 | 0.975 | 3.100 | 1.70 | 0.980 | 0.6300 | 57,800 | -65 | 200 | 267.0 | MS17985C1045 / NAS1340A2C45D | 4211.H45 |
| 5/8 | 0.6220 | 0.6240 | 6.0 | 0.750 | 0.580 | 0.580 | 0.975 | 3.100 | 1.70 | 0.980 | 0.6300 | 57,800 | -65 | 200 | 324.0 | MS17985C1060 / NAS1340A2C60D | 4211.H60 |
| 3/4 | 0.7470 | 0.7485 | 1.6 | 0.887 | 0.670 | 0.700 | 1.000 | 3.100 | 1.72 | 1.030 | 0.7570 | 83,200 | -65 | 200 | 198.0 | MS17985C1216 / NAS1341A2C16D | 4211.K16 |
| 3/4 | 0.7470 | 0.7485 | 2.5 | 0.887 | 0.670 | 0.700 | 1.000 | 3.100 | 1.72 | 1.030 | 0.7570 | 83,200 | -65 | 200 | 248.0 | MS17985C1225 / NAS1341A2C25D | 4211.K25 |
| 3/4 | 0.7470 | 0.7485 | 3.0 | 0.887 | 0.670 | 0.700 | 1.000 | 3.100 | 1.72 | 1.030 | 0.7570 | 83,200 | -65 | 200 | 276.0 | MS17985C1230 / NAS1341A2C30D | 4211.K30 |
| 3/4 | 0.7470 | 0.7485 | 4.0 | 0.887 | 0.670 | 0.700 | 1.000 | 3.100 | 1.72 | 1.030 | 0.7570 | 83,200 | -65 | 200 | 331.0 | MS17985C1240 / NAS1341A2C40D | 4211.K40 |
| 3/4 | 0.7470 | 0.7485 | 5.0 | 0.887 | 0.670 | 0.700 | 1.000 | 3.100 | 1.72 | 1.030 | 0.7570 | 83,200 | -65 | 200 | 387.0 | MS17985C1250 / NAS1341A2C50D | 4211.K50 |
| 3/4 | 0.7470 | 0.7485 | 8.0 | 0.887 | 0.670 | 0.700 | 1.000 | 3.100 | 1.72 | 1.030 | 0.7570 | 83,200 | -65 | 200 | 553.0 | MS17985C1280 / NAS1341A2C80D | 4211.K80 |
| 7/8 | 0.8720 | 0.8735 | 4.0 | 1.046 | 0.760 | 0.840 | 1.320 | 3.520 | 2.17 | 1.310 | 0.8820 | 112,500 | -65 | 200 | 506.0 | MS17985C1440 / NAS1342A2C40D | 4211.L40 |
| 1 | 0.9970 | 0.9985 | 1.0 | 1.219 | 0.810 | 0.950 | 1.320 | 3.520 | 2.17 | 1.310 | 1.0100 | 147,200 | -65 | 200 | 333.0 | MS17985C1610 / NAS1343A2C10D | 4211.M10 |
| 1 | 0.9970 | 0.9985 | 1.5 | 1.219 | 0.810 | 0.950 | 1.320 | 3.520 | 2.17 | 1.310 | 1.0100 | 147,200 | -65 | 200 | 383.0 | MS17985C1615 / NAS1343A2C15D | 4211.M15 |
| 1 | 0.9970 | 0.9985 | 2.9 | 1.219 | 0.810 | 0.950 | 1.320 | 3.520 | 2.17 | 1.310 | 1.0100 | 147,200 | -65 | 200 | 522.0 | MS17985C1629 / NAS1343A2C29D | 4211.M29 |
| 1 | 0.9970 | 0.9985 | 3.1 | 1.219 | 0.810 | 0.950 | 1.320 | 3.520 | 2.17 | 1.310 | 1.0100 | 147,200 | -65 | 200 | 541.0 | MS17985C1631 / NAS1343A2C31D | 4211.M31 |
| 1 | 0.9970 | 0.9985 | 3.3 | 1.219 | 0.810 | 0.950 | 1.320 | 3.520 | 2.17 | 1.310 | 1.0100 | 147,200 | -65 | 200 | 561.0 | MS17985C1633 / NAS1343A2C33D | 4211.M33 |
| 1 | 0.9970 | 0.9985 | 4.0 | 1.219 | 0.810 | 0.950 | 1.320 | 3.520 | 2.17 | 1.310 | 1.0100 | 147,200 | -65 | 200 | 631.0 | MS17985C1640 / NAS1343A2C40D | 4211.M40 |
| 1 | 0.9970 | 0.9985 | 5.0 | 1.219 | 0.810 | 0.950 | 1.320 | 3.520 | 2.17 | 1.310 | 1.0100 | 147,200 | -65 | 200 | 581.0 | MS17985C1650 / NAS1343A2C50D | 4211.M50 |
| 1 | 0.9970 | 0.9985 | 5.5 | 1.219 | 0.810 | 0.950 | 1.320 | 3.520 | 2.17 | 1.310 | 1.0100 | 147,200 | -65 | 200 | 779.0 | MS17985C1655 / NAS1343A2C55D | 4211.M55 |

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 23.01.2024.

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.