

## Grommets

### Push-In Expandable Grommets

The center hole flexes to tightly hold cables, cords, and tubing.

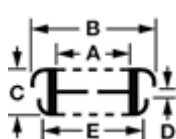
**Flexible** grommets are thermoplastic and are installed by squeezing the sides and pressing them into a hole in a panel. Durometer hardness is 50A. Temperature range is 5° to 250° F. Use indoors.

**Rigid** grommets snap and lock into place. They're nylon with a Rockwell hardness of R118. Temperature range is -40° to +250° F. Use indoors and outdoors.

#### Flexible



Flexible

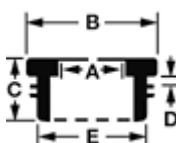


| ID (A)         | OD (B) | O'all Thick. (C) | Panel Thick. (D) | Panel Hole Dia. (E) | Pkg. Qty. | Black Per Pkg.                |
|----------------|--------|------------------|------------------|---------------------|-----------|-------------------------------|
| 3/32" - 3/8"   | 21/32" | 1/4"             | 1/16"            | 1/2"                | 25        | <a href="#">4946A1</a> \$4.78 |
| 5/32" - 13/16" | 1 1/4" | 3/8"             | 1/16"            | 1"                  | 25        | <a href="#">4946A2</a> 8.95   |

#### Rigid



Rigid



| ID (A)      | OD (B)   | O'all Thick. (C) | Panel Thick. (D) | Panel Hole Dia. (E) | Pkg. Qty. | Black Per Pkg.                | White Per Pkg.                  |
|-------------|----------|------------------|------------------|---------------------|-----------|-------------------------------|---------------------------------|
| 7/16" max.  | 23/32"   | 13/32"           | 1/32" - 1/8"     | 5/8"                | 100       | <a href="#">4946A21</a> 5.50  | <a href="#">4946A211</a> \$5.50 |
| 1/2" max.   | 55/64"   | 25/64"           | 1/32" - 1/8"     | 3/4"                | 100       | <a href="#">4946A22</a> 6.87  | <a href="#">4946A221</a> 6.87   |
| 9/16" max.  | 15/16"   | 29/64"           | 1/32" - 1/8"     | 7/8"                | 100       | <a href="#">4946A24</a> 7.51  | <a href="#">4946A241</a> 7.51   |
| 3/4" max.   | 1 1/16"  | 29/64"           | 1/32" - 1/8"     | 1"                  | 100       | <a href="#">4946A25</a> 9.76  | _____                           |
| 13/16" max. | 1 5/32"  | 29/64"           | 1/32" - 1/8"     | 1 3/32"             | 100       | <a href="#">4946A26</a> 10.13 | _____                           |
| 7/8" max.   | 1 23/64" | 29/64"           | 1/32" - 1/8"     | 1 1/4"              | 100       | <a href="#">4946A27</a> 14.05 | _____                           |

### Push-In Military Specification Grommets



Manufactured to meet MIL-G-3036 and MS-35489 (unless noted), these grommets are also AN (Army-Navy) approved. They insulate and seal around holes cut into panels, while damping vibration and minimizing abrasion. Durometer hardness is 50A.

**Flexible** grommets are made of Buna-N rubber, have a temperature range of 0° to 250° F, and are black in color. Use indoors.

**High-temperature flexible** grommets are silicone with a temperature range of -60° to +500° F. Color is red-orange. Use indoors and outdoors.

Additional Flexible MS-35489 grommet numbers 1-156. Please ask for [9307K92](#) and specify MS-35489 number.

| ID (A) | OD (B) | O'all Thick. (C) | Panel Thick. (D) | Panel Hole Dia. (E) | MS-35489 No. | AN-931 No. | Pkg. Qty. | Flexible Per Pkg.              | High-Temperature Flexible Pkg. Qty. |
|--------|--------|------------------|------------------|---------------------|--------------|------------|-----------|--------------------------------|-------------------------------------|
| 1/8"   | 11/32" | 3/16"            | 1/16"            | 1/4"                | 1            | 210        | 100       | <a href="#">9307K35</a> \$5.62 | 25                                  |
| 1/8"   | 3/4"   | 3/16"            | 1/16"            | 9/16"               | 2            | 2-9        | 25        | <a href="#">9307K41</a> 6.68   | 10                                  |
| 3/16"  | 7/16"  | 3/16"            | 1/16"            | 5/16"               | 4            | 3-5        | 50        | <a href="#">9307K11</a> 2.67   | 25                                  |
| 3/16"  | 7/16"  | 1/4"             | 1/8"             | 5/16"               | 33           | A3-5       | 50        | <a href="#">9307K12</a> 3.17   | 25                                  |
| 3/16"  | 7/16"  | 3/8"             | 1/4"             | 5/16"               | 91           | C3-5       | 50        | <a href="#">9307K37</a> 4.84   | 10                                  |
| 3/16"  | 3/4"   | 3/16"            | 1/16"            | 9/16"               | 134          | 3-9        | 50        | <a href="#">9307K43</a> 9.93   | 10                                  |
| 3/16"  | 7/8"   | 3/16"            | 1/16"            | 5/8"                | 5            | 3-10       | 25        | <a href="#">9307K44</a> 7.88   | 10                                  |
| 3/16"  | 7/8"   | 5/16"            | 3/16"            | 5/8"                | 63           | B3-10      | 25        | <a href="#">9307K36</a> 7.94   | 10                                  |
| 1/4"   | 5/8"   | 3/16"            | 1/16"            | 7/16"               | 6            | 4-7        | 50        | <a href="#">9307K13</a> 3.75   | 10                                  |
| 1/4"   | 5/8"   | 1/4"             | 1/8"             | 7/16"               | 35           | A4-7       | 50        | <a href="#">9307K14</a> 4.06   | 10                                  |
| 1/4"   | 5/8"   | 5/16"            | 3/16"            | 7/16"               | 64           | B4-7       | 50        | <a href="#">9307K38</a> 5.00   | 10                                  |
| 1/4"   | 5/8"   | 3/8"             | 1/4"             | 7/16"               | 93           | C4-7       | 50        | <a href="#">9307K39</a> 5.62   | 10                                  |
| 1/4"   | 1"     | 1/4"             | 1/16"            | 3/4"                | 7            | 4-12       | 25        | <a href="#">9307K64</a> 9.29   | 10                                  |
| 1/4"   | 1 1/4" | 1/4"             | 1/16"            | 1"                  | 8            | 4-16       | 25        | <a href="#">9307K76</a> 5.09   | 5                                   |
| 5/16"  | 13/16" | 5/16"            | 1/16"            | 9/16"               | 9            | 5-9        | 50        | <a href="#">9307K16</a> 6.76   | 10                                  |
| 5/16"  | 13/16" | 3/8"             | 1/8"             | 9/16"               | 38           | A5-9       | 50        | <a href="#">9307K17</a> 6.91   | 10                                  |
| 5/16"  | 13/16" | 7/16"            | 3/16"            | 9/16"               | 67           | B5-9       | 50        | <a href="#">9307K18</a> 7.06   | 10                                  |
| 5/16"  | 13/16" | 1/2"             | 1/4"             | 9/16"               | 96           | C5-9       | 50        | <a href="#">9307K91</a> 7.06   | 10                                  |
| 5/16"  | 1"     | 5/16"            | 1/16"            | 3/4"                | 10           | 5-12       | 25        | <a href="#">9307K77</a> 9.35   | 10                                  |
| 5/16"  | 1"     | 3/8"             | 1/8"             | 3/4"                | 39           | A5-12      | 25        | <a href="#">9307K42</a> 9.71   | 10                                  |
| 5/16"  | 1"     | 7/16"            | 3/16"            | 3/4"                | 68           | B5-12      | 25        | <a href="#">9307K58</a> 10.02  | 10                                  |
| 3/8"   | 11/16" | 9/32"            | 1/16"            | 1/2"                | _____        | 930-1      | 50        | <a href="#">9307K21</a> 4.38   | 10                                  |
| 3/8"   | 3/4"   | 3/8"             | 1/16"            | 9/16"               | _____        | 930-2      | 50        | <a href="#">9307K48</a> 10.31  | 10                                  |
| 3/8"   | 3/4"   | 3/4"             | 3/8"             | 9/16"               | _____        | 930-3      | 25        | <a href="#">9307K49</a> 7.80   | 10                                  |

|        |         |       |       |         |     |        |    |         |       |    |         |       |
|--------|---------|-------|-------|---------|-----|--------|----|---------|-------|----|---------|-------|
| 3/8"   | 7/8"    | 5/16" | 1/16" | 5/8"    | 11  | 6-10   | 50 | 9307K22 | 7.72  | 10 | 1061T53 | 10.00 |
| 3/8"   | 7/8"    | 3/8"  | 1/8"  | 5/8"    | 40  | A6-10  | 50 | 9307K23 | 8.24  | 5  | 1061T27 | 6.97  |
| 3/8"   | 7/8"    | 7/16" | 3/16" | 5/8"    | 69  | B6-10  | 50 | 9307K59 | 8.75  | 5  | 1061T36 | 6.71  |
| 3/8"   | 1 1/4"  | 1/4"  | 1/16" | 1"      | 12  | 6-16   | 50 | 9307K24 | 7.72  | 5  | 1061T54 | 9.50  |
| 7/16"  | 15/16"  | 5/16" | 1/16" | 11/16"  | 13  | 7-11   | 50 | 9307K25 | 7.72  | 5  | 1061T17 | 7.04  |
| 1/2"   | 1"      | 9/32" | 3/32" | 3/4"    | —   | 930-4  | 25 | 9307K85 | 9.11  | 10 | 1061T86 | 11.58 |
| 1/2"   | 1 1/16" | 5/16" | 1/16" | 13/16"  | 14  | 8-13   | 50 | 9307K26 | 8.68  | 5  | 1061T18 | 7.73  |
| 1/2"   | 1 1/16" | 3/8"  | 1/8"  | 13/16"  | 43  | A8-13  | 50 | 9307K27 | 9.67  | 5  | 1061T28 | 9.49  |
| 1/2"   | 1 1/16" | 7/16" | 3/16" | 13/16"  | 72  | B8-13  | 50 | 9307K62 | 10.00 | 5  | 1061T55 | 8.62  |
| 1/2"   | 1 1/16" | 1/2"  | 1/4"  | 13/16"  | 101 | C8-13  | 50 | 9307K63 | 10.19 | 5  | 1061T39 | 9.03  |
| 1/2"   | 1 1/2"  | 1/4"  | 1/16" | 1 1/4"  | 15  | 8-20   | 50 | 9307K28 | 11.12 | 5  | 1061T56 | 13.81 |
| 9/16"  | 1 1/16" | 5/16" | 1/16" | 13/16"  | 16  | 9-13   | 25 | 9307K52 | 11.31 | 5  | 1061T57 | 5.88  |
| 5/8"   | 1 1/8"  | 5/16" | 1/16" | 7/8"    | 17  | 10-14  | 10 | 9307K53 | 6.26  | 5  | 1061T58 | 8.12  |
| 5/8"   | 1 1/8"  | 3/8"  | 1/8"  | 7/8"    | 46  | A10-14 | 10 | 9307K65 | 5.90  | 5  | 1061T59 | 9.12  |
| 5/8"   | 1 1/8"  | 7/16" | 3/16" | 7/8"    | 75  | B10-14 | 10 | 9307K66 | 6.00  | 5  | 1061T61 | 10.00 |
| 5/8"   | 1 1/8"  | 1/2"  | 1/4"  | 7/8"    | 104 | C10-14 | 10 | 9307K67 | 6.12  | 5  | 1061T62 | 10.12 |
| 5/8"   | 1 1/2"  | 1/4"  | 1/16" | 1 1/4"  | 18  | 10-20  | 10 | 9307K86 | 7.15  | 2  | 1061T63 | 6.38  |
| 11/16" | 1 5/16" | 7/16" | 1/8"  | 1"      | 48  | A11-16 | 25 | 9307K79 | 8.12  | 5  | 1061T64 | 12.38 |
| 11/16" | 1 5/16" | 1/2"  | 3/16" | 1"      | 77  | B11-16 | 25 | 9307K68 | 8.22  | 5  | 1061T65 | 13.10 |
| 11/16" | 1 5/16" | 9/16" | 1/4"  | 1"      | 106 | C11-16 | 25 | 9307K69 | 8.62  | 5  | 1061T66 | 14.29 |
| 3/4"   | 1 3/8"  | 3/8"  | 1/16" | 1 1/16" | 20  | 12-17  | 25 | 9307K81 | 8.04  | 5  | 1061T67 | 11.25 |
| 3/4"   | 1 3/8"  | 7/16" | 1/8"  | 1 1/16" | 49  | A12-17 | 25 | 9307K82 | 8.12  | 5  | 1061T68 | 11.90 |
| 3/4"   | 1 3/8"  | 9/16" | 1/4"  | 1 1/16" | 107 | C12-17 | 25 | 9307K71 | 8.55  | 5  | 1061T69 | 14.29 |
| 3/4"   | 1 5/8"  | 1/4"  | 1/16" | 1 1/4"  | 135 | 12-20  | 10 | 9307K55 | 10.13 | 2  | 1061T71 | 6.10  |
| 7/8"   | 1 5/8"  | 7/16" | 1/16" | 1 1/4"  | 22  | 14-20  | 25 | 9307K83 | 9.16  | 2  | 1061T74 | 7.10  |
| 7/8"   | 1 5/8"  | 1/2"  | 1/8"  | 1 1/4"  | 51  | A14-20 | 25 | 9307K72 | 9.57  | 2  | 1061T75 | 7.95  |
| 7/8"   | 1 5/8"  | 9/16" | 3/16" | 1 1/4"  | 80  | B14-20 | 25 | 9307K73 | 9.88  | 2  | 1061T76 | 8.10  |
| 1"     | 1 3/4"  | 7/16" | 1/16" | 1 3/8"  | 23  | 16-22  | 10 | 9307K61 | 10.08 | 2  | 1061T77 | 8.48  |
| 1"     | 1 3/4"  | 1/2"  | 1/8"  | 1 3/8"  | 52  | A16-22 | 10 | 9307K74 | 8.36  | 2  | 1061T78 | 8.57  |
| 1 1/2" | 2 1/8"  | 7/16" | 1/16" | 1 3/4"  | 27  | 24-28  | 25 | 9307K84 | 10.72 | 1  | 1061T79 | 6.70  |
| 1 1/2" | 2 1/8"  | 1/2"  | 1/8"  | 1 3/4"  | 56  | A24-28 | 25 | 9307K75 | 12.04 | 1  | 1061T81 | 8.80  |