



O-RINGS, INC.
 3311 PEPPER AVENUE
 LOS ANGELES, CA 90065
 PHONE (323) 343-9500
 FAX (323) 343-9505
 info@oringsUSA.com

MS35489 Grommets

(Supersedes: MS35490 and AN931. Specification: MIL-G-3036)

These grommets meet MIL-G-3036 and MS 35489 and are AN (Army-Navy) approved. Used to insulate and seal around holes cut into solid panels. They offer vibration dampening and abrasion control. They also resist oil, gasoline, and aromatic hydrocarbons.

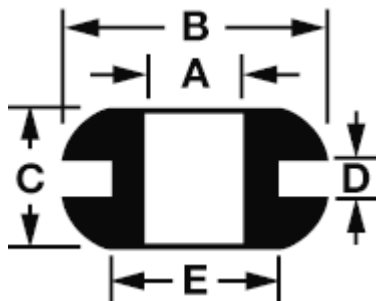
Material:

- a. Rubber, nitrile black. Shore A 60. Temperature range is -45° to +250° F.
- b. Rubber, silicone brick red. Shore A 60. -150° to +500° F

Part Number: The MS part number consists of the MS number, plus the dash number for synthetic rubber, plus the letter "X" for silicone rubber. Examples: MS35489-14 is a synthetic rubber grommet while MS35489-14X is a silicone rubber grommet.

Split Grommets: Split grommets are not to be procured or stocked by the services. For replacement, use solid grommets and split at assembly. Split grommets may be specified or used on drawings by adding the suffix "S" after the dash number.

Supersession: Do not use MS35490 grommets to replace MS35489 or AN931 grommets. AN931 grommets and supercedeing MS35489 grommets are universally, functionally and dimensionally interchangeable.



MS35489	AN931	ID	Panel Thickness.	Width	OD	Panel Hole Dia.
Dash No.	Dash No.	(A)	(D)	(C)	(B)	(E)
1	210	1/8"	1/16"	3/16"	11/32"	1/4"
2	38026	1/8"	1/16"	3/16"	3/4"	9/16"
4	38051	3/16"	1/16"	3/16"	7/16"	5/16"
5	38056	3/16"	1/16"	3/16"	7/8"	5/8"
33	A3-5	3/16"	1/8"	1/4"	7/16"	5/16"
63	B3-10	3/16"	3/16"	5/16"	7/8"	5/8"
91	C3-5	3/16"	1/4"	3/8"	7/16"	5/16"
134	38055	3/16"	1/16"	3/16"	3/4"	9/16"
6	38084	1/4"	1/16"	3/16"	5/8"	7/16"
7	38089	1/4"	1/16"	1/4"	1"	3/4"
8	38093	1/4"	1/16"	1/4"	1 1/4"	1"



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35	A4-7	1/4"	1/8"	1/4"	5/8"	7/16"
64	B4-7	1/4"	3/16"	5/16"	5/8"	7/16"
93	C4-7	1/4"	1/4"	3/8"	5/8"	7/16"
9	38116	5/16"	1/16"	5/16"	13/16"	9/16"
10	38119	5/16"	1/16"	5/16"	1"	3/4"
38	A5-9	5/16"	1/8"	3/8"	13/16"	9/16"
39	A5-12	5/16"	1/8"	3/8"	1"	3/4"
67	B5-9	5/16"	3/16"	7/16"	13/16"	9/16"
68	B5-12	5/16"	3/16"	7/16"	1"	3/4"
95	C5-9	5/16"	1/4"	1/2"	13/16"	9/16"
118	38120	5/16"	1/16"	5/16"	1 1/16"	13/16"
—	930-1	3/8"	1/16"	9/32"	11/16"	1/2"
—	930-2	3/8"	1/16"	3/8"	3/4"	9/16"
—	930-3	3/8"	3/8"	3/4"	3/4"	9/16"
11	38148	3/8"	1/16"	5/16"	7/8"	5/8"
12	38154	3/8"	1/16"	1/4"	1 1/4"	1"
40	A6-10	3/8"	1/8"	3/8"	7/8"	5/8"
69	B6-10	3/8"	3/16"	7/16"	7/8"	5/8"
13	38179	7/16"	1/16"	5/16"	15/16"	11/16"
—	930-4	1/2"	3/32"	9/32"	1"	3/4"
14	38212	1/2"	1/16"	5/16"	1 1/16"	13/16"
15	38219	1/2"	1/16"	1/4"	1 1/2"	1 1/4"
43	A8-13	1/2"	1/8"	3/8"	1 1/16"	13/16"
72	B8-13	1/2"	3/16"	7/16"	1 1/16"	13/16"
101	C8-13	1/2"	1/4"	1/2"	1 1/16"	13/16"
16	38243	9/16"	1/16"	5/16"	1 1/16"	13/16"
17	38274	5/8"	1/16"	5/16"	1 1/8"	7/8"
18	38280	5/8"	1/16"	1/4"	1 1/2"	1 1/4"
46	A10-14	5/8"	1/8"	3/8"	1 1/8"	7/8"
75	B10-14	5/8"	3/16"	7/16"	1 1/8"	7/8"
104	C10-14	5/8"	1/4"	1/2"	1 1/8"	7/8"
48	A11-16	11/16"	1/8"	7/16"	1 5/16"	1"
77	B11-16	11/16"	3/16"	1/2"	1 5/16"	1"
106	C11-16	11/16"	1/4"	9/16"	1 5/16"	1"
20	38338	3/4"	1/16"	3/8"	1 3/8"	1 1/16"
21	38344	3/4"	1/16"	3/8"	1 13/16"	1 7/16"
49	A12-17	3/4"	1/8"	7/16"	1 3/8"	1 1/16"
107	C12-17	3/4"	1/4"	9/16"	1 3/8"	1 1/16"
120	38347	3/4"	1/16"	3/8"	2"	1 5/8"
135	38341	3/4"	1/16"	1/4"	1 5/8"	1 1/4"
22	14-20	7/8"	1/16"	7/16"	1 5/8"	1 1/4"
51	A14-20	7/8"	1/8"	1/2"	1 5/8"	1 1/4"
80	B14-20	7/8"	3/16"	9/16"	1 5/8"	1 1/4"



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23	16-22	1"	1/16"	7/16"	1 3/4"	1 3/8"
52	A16-22	1"	1/8"	1/2"	1 3/4"	1 3/8"
27	24-28	1 1/2"	1/16"	7/16"	2 1/8"	1 3/4"
56	A24-28	1 1/2"	1/8"	1/2"	2 1/8"	1 3/4"