

MIL-STD-1754
29 December 1978

MILITARY STANDARD

FASTENING DEVICES
PREFERRED FOR DESIGN,
LISTING OF



FSC 5325

MIL-STD-1754
29 December 1978

DEPARTMENT OF DEFENSE
Washington, DC 20301

Fastening Devices Preferred For Design, Listing of

MIL-STD-1754

1. This Military Standard is approved for use by all Departments and Agencies of the Department of Defense.

2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Aeronautical Systems Division (AFSC), ATTN: ASD/ENESS, Wright-Patterson Air Force Base, Ohio 45433 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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FOREWORD

1. The purpose of this bookform standard is to provide a commodity type parts document on fastening devices to aid military equipment designers and engineers in the selection of preferred fastening devices.

2. This document consists of an index of preferred standardization documents and a listing of preferred parts within these documents that have been selected with respect to configuration, sizes, lengths, materials, and finishes for fastening devices.

3. The selection of preferred documents listed in this standard and the selection of part numbers within the preferred documents were made as follows:

a. Selection of Documents

(1) Documents listed or scheduled for listing in the Department of Defense Index of Specifications and Standards (DODISS).

(2) Documents which are active for design.

(3) Documents specifying part numbers (dash numbers) which designate specific sizes, materials and finishes.

b. Selection of Part Numbers

(1) By conducting a thorough search and evaluation of existing DoD procurement information.

(2) By evaluation of preferred parts listed in recent weapon system contracts.

(3) By evaluation of preferred parts lists obtained from industry.

4. To increase the scope and versatility of this fastening devices standard, periodic revisions will be developed. Results from Standardization studies, MILITARY PARTS CONTROL ADVISORY GROUP (MPCAG) evaluations, evaluation of a new family of fastening devices and recommendations from interested activities will form the basis for these revisions.

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1. SCOPE

1.1 Scope. This standard provides a listing of preferred fastening devices encompassing the following characteristics:

- a. Configuration
- b. Size
- c. Materials
- d. Protective Coatings and Finishes

1.2 Purpose. The purpose of this standard is as follows:

- a. Provide the designer with a listing of preferred fastening devices to promote their use in design of weapon systems and equipments.
- b. Control and minimize the variety of fastening devices used in military equipment thereby facilitating logistic support of the equipment during its life cycle.

1.3 Application. To minimize the proliferation of fastening devices, only the preferred part number listed herein are authorized for use in new design. All other part numbers, even though shown on current Military Specification Sheets, Military Standards (MS), National Aerospace Standards (NAS), Aeronautical Standards (AS), and Air Force/Navy Aeronautical Standards (AN), are not approved for use in new design unless approved by the cognizant Government procuring activity.

1.4 Intended use. Implement this standard by including one of the following options in the contract:

- a. Require this standard as a supplement to an end use type standard such as MIL-STD-1471 or MIL-STD-1515. When thus required, only the fastening devices listed in both the end use type and this standard are acceptable. Use of other fastening devices requires approval of the Government procuring activity.
- b. Require this standard as a guide to be used with an end use type standard such as MIL-STD-1471 or MIL-STD-1515. When thus required, the fastening devices listed in the end use type standard and this standard are acceptable. The designer must assure himself the fastening devices listed in both the end use type standard and this standard are not adequate for his requirement before using fastening devices not listed herein. Use of fastening devices not listed in the end use type standard requires approval of the Government procuring activity.

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c. Require this standard and indicate exceptions to it. When thus required, only the fastening devices listed in this standard and not excluded by the exceptions are acceptable. Use of other fastening devices requires approval of the Government procuring activity.

d. Require this standard as a guide. When thus required, the designer must assure himself the fastening devices listed in this standard are not adequate for the requirement before using other fastening devices.

2. REFERENCED DOCUMENTS

2.1 Issues of documents. The following documents of the issue in effect on date of invitation for bids or request for proposal form a part of this standard to the extent specified herein.

SPECIFICATIONS**MILITARY**

- MIL-E-20652/1 - Eyelets, Metallic, Rolled Flange Type; And Eyelet Washer.
- MIL-E-20652/2 - Eyelets, Metallic, Flat Flange Type.
- MIL-E-20652/3 - Eyelets, Metallic, Telescopic Type.

STANDARDS**MILITARY**

- MS17731 - Fastener, Rotary, Quick-Operating, Flush Head, Floating Type, 2210 LBS Min Tensile Strength.
- MS17732 - Fastener, Rotary, Quick-Operating, Protruding Head, Floating Type, 2210 LBS Min Tensile Strength.
- MS20230 - Grommet, Metallic, Plain and Spur, With Washer, Type I and Type III.
- MS21266 - Grommet, Plastic, Edging.
- MS21323 - Stud-Style I Snapslide Fastener.
- MS21325 - Stud-Style III Snapslide Fastener.
- MS21326 - Stud, Style IV Snapslide Fastener.

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STANDARDS

MILITARY - Continued

- MS21327 - Fastener Installation-Snapslide.
- MS21332 - Fastener-Snapslide.
- MS27977 - Fasteners, Snap, Style 1 (Large Curtain Type).
- MS27978 - Fasteners, Snap, Style 1A (Small Curtain Type).
- MS27979 - Fasteners, Snap, Style 1B (Mud-Proof Curtain Type).
- MS27980 - Fasteners, Snap, Style 2 (Regular Wire Spring Clamp Type).
- MS27981 - Fasteners, Snap, Style 2A (Small Wire Spring Clamp Type).
- MS27982 - Fasteners, Snap, Style 3 (Pronged Ring Head Type).
- MS27983 - Fasteners, Snap, Style 4 (Three Way Locking Type).
- MS27986 - Fasteners, Snap, Style 7 (Rivet Type).
- MS35489 - Grommets, Synthetic and Silicone Rubber, Hot Oil and Coolant Resistant.

AIR FORCE-NAVY AERONAUTICAL

- AN229 - Fasteners-Interlocking Slide.
- AN231 - Grommet-Drainage, Plastics.
- AN240 - Eyelet-Lacing.

(Copies of specifications, standards, drawings and publications required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

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2.2 Other Publications. The following documents form a part of this standard to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC. (AIA)

NATIONAL AEROSPACE STANDARDS

- | | |
|---------|---|
| NAS557 | - Grommet, Plastic-Split. |
| NAS1368 | - Grommet-Plastic Flip Type. |
| NAS1453 | - Eyelet, Metallic, Electrical, Printed Circuit Board, Funnel Type. |
| NAS1788 | - Eyelet, Metallic, Electrical, Rolled Flange Type. |

(Application for copies should be addressed to the Aerospace Industries Association of America, Inc., 1725 De Sales Street, N.W., Washington, DC 20036.)

3. DEFINITIONS

3.1 Adopted Industry Standards. Any Industry Specification or Standard which is listed in the Department of Defense Index of Specifications and Standards (DODISS).

3.2 Commodity Type Document. A document which lists preferred parts within a Federal Supply Classification class or Item Name. This document is to be used for selecting preferred parts for a new design when the document is invoked as a contractual requirement in conjunction with a parts control requirement.

3.3 End Use Type Document. A document that lists preferred documents and establishes parts requirements which are contractually binding for the design and construction/manufacture of a weapon system or an established equipment category such as MIL-STD-1515.

3.4 Military Parts Control Advisory Group (MPCAG). A Department of Defense organization which provides advice to the Military Departments and military contractors on the selection of parts in assigned commodity classes, and collects data on nonstandard parts for developing or updating military specifications and standards.

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3.5 Definitions of approved item names used in this standard are as follows:

- a. Eyelet, Metallic. A one-piece metal item; usually tubular, flanged at one end, the other end open. It is used primarily for lining and reinforcing the edges of holes. The unflanged end is designed to be inserted through a hole and crimped to form a mating flange.
- b. Fastener, Slide, Interlocking. Limited to items commonly known as "zipper".
- c. Fastener, Snap. A nonpositive fastening device consisting of a STUD, SNAP FASTENER and a SOCKET, SNAP FASTENER. It may have any one or several of the following components: POST, SNAP FASTENER; CLINCH PLATE, SNAP FASTENER; and CAP, SNAP FASTENER. It is used as a means of attaching covers, curtains, or similar items to each other or to vehicles, hatch coaming, bulkheads, and the like.
- d. Fastener, Snapslide. A mechanical device consisting of a latch, latch guide, post, and washer designed to support and hold equipment in a fixed position.
- e. Stud, Snapslide, Fastener. An item which is used in conjunction with FASTENER, SNAPSLIDE. It secures the latch when mated with the notched rest of the latch.
- f. Fastener Assembly, Turnlock. An item consisting of a STUD, TURNLOCK FASTENER or a STUD ASSEMBLY, TURNLOCK FASTENER, and a RECEPTACLE, TURNLOCK FASTENER. It is designed to provide a means for securely locking two items together and allow for quick locking or unlocking action.
- g. Grommet, Metallic. A two-piece metallic item, one piece usually tubular in appearance and flanged at one end, the other piece a plain tooth or spur washer or retaining ring. It is primarily used for lining and reinforcing the edges of holes. The unflanged end is designed to be inserted through a hole and retained in place by being crimped over the plain or tooth washer or retaining ring or by clinching action between the spur washer and the flanged end.
- h. Grommet, Plastic. An item of any peripheral shape having flanges or a groove(s) on its outer perimeter to provide a self-retaining characteristics when inserted in a hole, clamp, or the like. Designed for the purpose of protecting and/or insulating wires, cables and other items passing through it.

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i. Grommet, Rubber. An item of any peripheral shape having flanges or a groove(s) on its outer perimeter to provide a self-retaining characteristics when inserted in a hole, clamp, or the like. Designed for the purpose of protecting and/or insulating wires, cables and other items passing through it.

4. GENERAL STATEMENTS

4.1 Selection procedure.

4.1.1 Document selection. The applicable section shall be selected after reviewing the table of contents.

4.1.2 Part number selection (preliminary). A preliminary selection of the applicable part number shall be made after reviewing the nominal parameters (sizes, materials, tensile strength) listed in the sections.

4.1.3 Part number selection (final). A final selection of the applicable part number shall be made after reviewing the detailed requirements specified in the referenced fastening device documents for suitability in the particular military equipment being designed (considering the application and environmental conditions).

5. DETAILED REQUIREMENTS

5.1 The detailed requirements for preferred fastening devices are contained in the applicable fastening device document and associated procurement specification. If there is disagreement between the nominal parameters listed in this standard and the parameters specified in the applicable fastening device document or associated procurement specification, the parameters specified in the applicable fastening device document or associated procurement specification shall prevail.

6. NOTES

6.1 Dimensions. Dimensions shown in the sections contained herein are in inches.

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Custodians:
Army - GL
Navy -
Air Force - 11

Preparing activity:
Air Force - 11

Agent:
DLA - IS

Review activities:
Army - AT, AV, EA, ER, MI
Navy - OS, SH
Air Force -
DLA - DM, IS
NS

(Project 5325-0176)

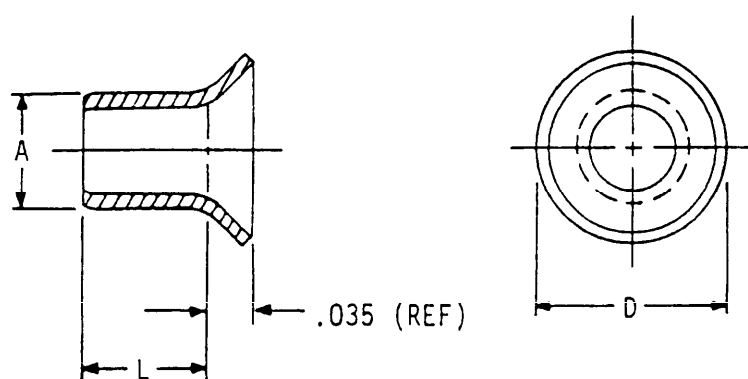
User activities:
Army - ME
Navy - MC
Air Force - 99

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SECTION 101

EYELET, METALLIC, ELECTRICAL, PRINTED CIRCUIT
BOARD, FUNNEL TYPE

APPLICABLE DOCUMENT: NAS1453



MATERIAL	PROTECTIVE FINISH
COPPER	SOLDER ELECTROPLATE

TABLE I. EYELET CONFIGURATION DASH NUMBERS.

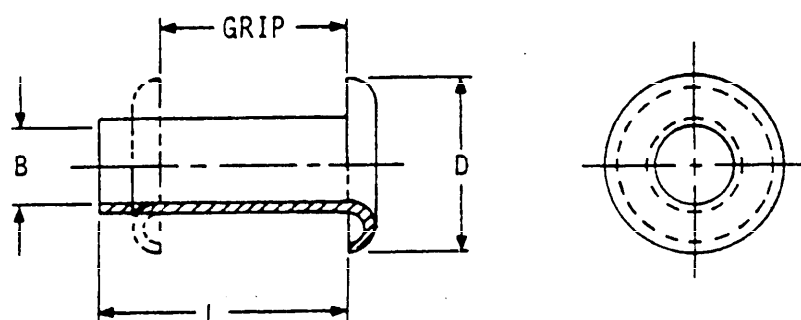
A	D	L	APPLICABLE PRINTED CIRCUIT BOARD THICKNESS (REF)	MAXIMUM AWG LEAD WIRE SIZE	NAS1453 DASH NO.
.047	.080	.095	.062	NO. 22	-3-095S
.060	.100	.095	.062	NO. 20	-4-095S

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SECTION 102

EYELET, METALLIC, ELECTRICAL,
ROLLED FLANGE TYPE

APPLICABLE DOCUMENT: NAS1788



MATERIAL	PROTECTIVE FINISH
BRASS	ELECTROPLATED TIN-LEAD OR TIN

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TABLE I. EYELET CONFIGURATION DASH NUMBERS.

D	L	B	GRIP (MAX)	NAS1703 DASH NO.
.080	.062	.036	.020	-1-2T
	.093		.051	-1-3T
	.125		.082	-1-4T
.105	.062	.043	.020	-2-2T
	.093		.051	-2-3T
	.125		.082	-2-4T
	.156		.113	-2-5T
	.187		.144	-2-6T
	.219		.176	-2-7T
.150	.093	.069	.045	-3-3T
	.125		.077	-3-4T
	.156		.108	-3-5T
	.187		.139	-3-6T
	.219		.171	-3-7T
	.250		.202	-3-8T
	.281		.233	-3-9T
	.312		.264	-3-10T
.200	.093	.097	.045	-4-3T
	.125		.077	-4-4T
	.156		.108	-4-5T
	.187		.139	-4-6T
	.219		.171	-4-7T
	.250		.202	-4-8T
	.281		.233	-4-9T
	.312		.264	-4-10T
	.344		.296	-4-11T
.245	.093	.127	.040	-5-3T
	.125		.072	-5-4T
	.156		.103	-5-5T
	.187		.134	-5-6T
	.219		.166	-5-7T
	.250		.197	-5-8T
	.281		.228	-5-9T
	.312		.259	-5-10T

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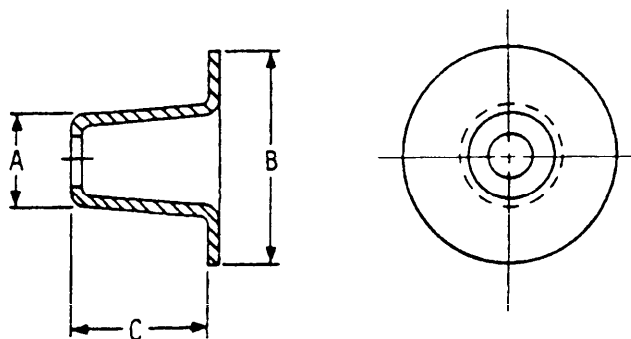
TABLE I. EYELET CONFIGURATION DASH NUMBERS. - CONTINUED

D	L	B	GRIP (MAX)	NAS1788 DASH NO.
.290	.093	.157	.040	-6-3T
	.125		.072	-6-4T
	.156		.103	-6-5T
	.187		.134	-6-6T
	.219		.166	-6-7T
	.250		.197	-6-8T
	.281		.228	-6-9T
	.312		.259	-6-10T
	.344		.291	-6-11T
	.375		.322	-6-12T
	.406		.353	-6-13T
	.437		.384	-6-14T
	.340		.093	.188
.125		.067	-7-4T	
.156		.098	-7-5T	
.187		.129	-7-6T	
.219		.161	-7-7T	
.250		.192	-7-8T	
.281		.223	-7-9T	
.312		.254	-7-10T	
.344		.286	-7-11T	
.375		.317	-7-12T	
.385	.093	.218	.035	-8-3T
	.125		.067	-8-4T
	.156		.098	-8-5T
	.187		.129	-8-6T
	.219		.161	-8-7T
	.250		.192	-8-8T
	.281		.223	-8-9T
	.312		.254	-8-10T
	.344		.286	-8-11T
	.375		.317	-8-12T
	.406		.348	-8-13T

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SECTION 103

EYELET, METALLIC, FLAT FLANGE TYPE
APPLICABLE DOCUMENT: MIL-E-20652/2



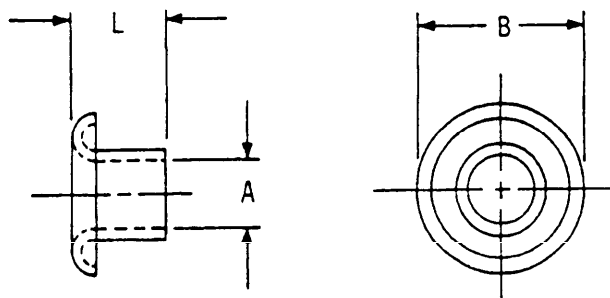
MATERIAL	PROTECTIVE FINISH
ALUMINUM	ANODIZED

TABLE I. EYELET CONFIGURATION DASH NUMBERS.

A	B	C	M20652/2 DASH NO.
.131- .157	.236	.125	-AAE201
.144- .175	.256	.132	-AAE202
.156- .184	.298	.130	-AAE203
.208- .234	.439	.224	-AAE204

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SECTION 104
EYELET - LACING
APPLICABLE DOCUMENT: AN240



MATERIAL	PROTECTIVE FINISH
STEEL	CADMIUM PLATE OR BLACK ENAMEL
BRASS	BLACK ENAMEL

TABLE I. EYELET CONFIGURATION DASH NUMBER.

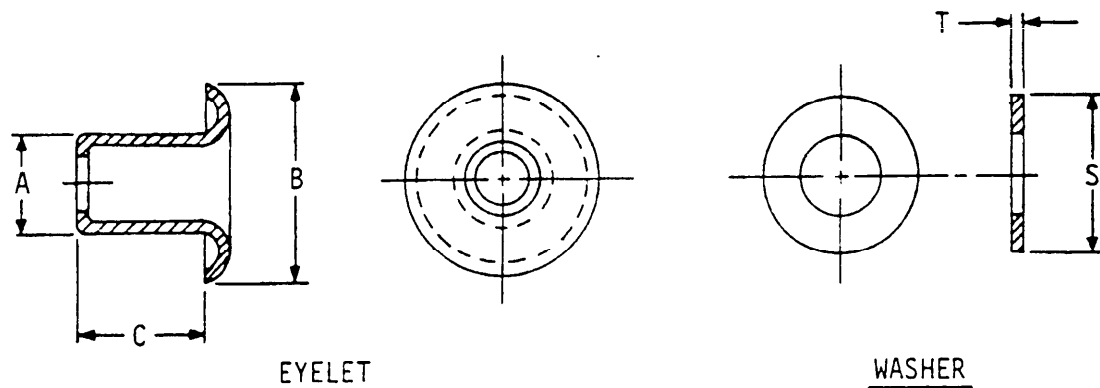
A	B	L	FOR USE WITH MATERIAL THICKNESS (MAX.)	AN240 DASH NO.	
				STEEL	BRASS
.125	.312	.170	.094	F2	-2
.188	.375	.190	.109	F3	-3
.250	.500	.210	.125	F4	-4

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SECTION 105

EYELET, METALLIC, ROLLED FLANGE TYPE; AND EYELET WASHER

APPLICABLE DOCUMENT: MIL-E-20652/1



MATERIAL	PROTECTIVE FINISH
ALUMINUM	BLACK ENAMEL
BRASS	BLACK CHEMICAL

TABLE I. EYELET CONFIGURATION DASH NUMBERS.

A	B	C	M20652/1 DASH NO.
.156	.254	.121	-ABE102
.158	.245	.182	-BBE103
.158	.245	.222	-BBE104
.170	.260	.147	-BBE105
.177	.300	.138	-ABE106
.200	.300	.187	-BBE110
.192- .208	.346	.145	-ABE111
.200	.343	.210	-ABE112
.200	.403	.143	-BBE114
.200	.403	.210	-BBE117
.200	.403	.250	-BBE118

A	B	C	M20652/1 DASH NO.
.204	.345	.185	-BBE119
.212	.550	.237	-BBE120
.212	.550	.297	-BBE121
.221	.388	.166	-ABE122
.210- .233	.460	.155	-BBE124
.273	.450	.185	-BBE125
.279	.494	.180	-ABE126
.285- .297	.490	.198	-ABE128
.288- .321	.505	.222	-ABE129
.350	.592	.198	-ABE131

NOTE: ABE INDICATES ALUMINUM ALLOY, BLACK ENAMEL FINISH EYELET.
BBE INDICATES BRASS, BLACK CHEMICAL FINISH EYELET.

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TABLE II. WASHER CONFIGURATION DASH NUMBER.

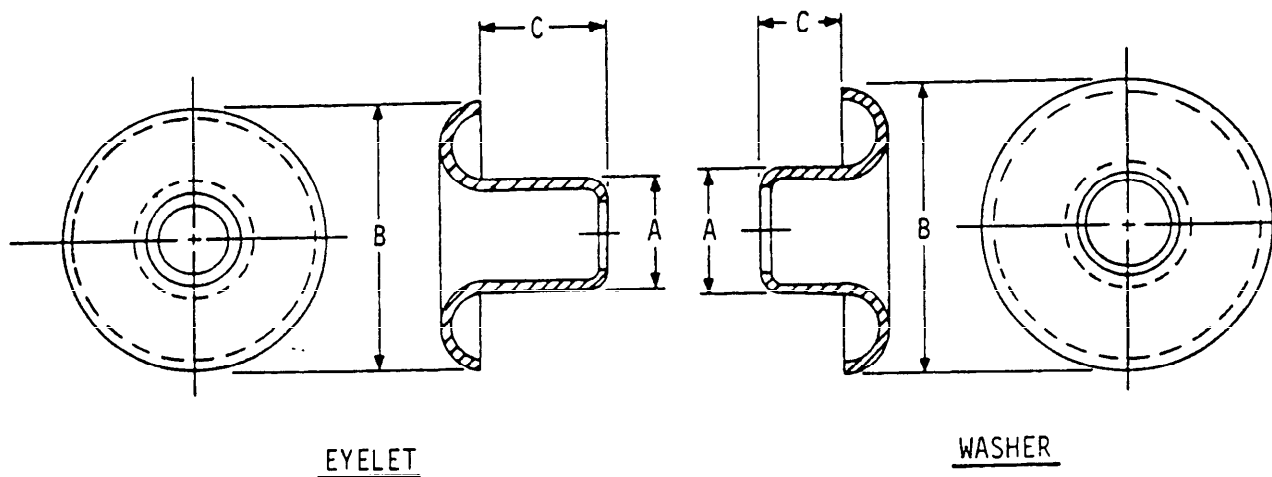
S	T	M20652/1 DASH NO.	USE WITH EYELETS- NUMBER
.450	.020	-BBW101	BBE114, BBE117 BBE118
.503	.031	-BBW102	BBE120, BBE121

NOTE: BBW INDICATES BRASS, BLACK CHEMICAL FINISH WASHER.

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SECTION 106

EYELET, METALLIC, TELESCOPIC TYPE
APPLICABLE DOCUMENT: MIL-E-20652/3



MATERIAL	PROTECTIVE FINISH
ALUMINUM	BLACK ENAMEL
BRASS	BLACK CHEMICAL

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TABLE I. EYELET AND WASHER CONFIGURATION DASH NUMBERS.

PART	A	B	C	M20652/3 DASH NO.	FOR USE WITH DASH NUMBER
EYELET	.190-	.350	.153	-BBT301	-BBT302
	.250				
WASHER	.225-	.428	.118	-BBT302	-BBT301
	.235				
EYELET	.200	.403	.210	-BBT307	-BBT308
WASHER	.243	.425	.125	-BBT308	-BBT307
EYELET	.212-	.455	.162	-ABT309	-ABT310
	.268				
WASHER	.255	.450	.120	-ABT310	-ABT309
EYELET	.223	.388	.166	-ABT313	-ABT314
WASHER	.255	.440	.095	-ABT314	-ABT313
EYELET	.295-	.540	.150	-ABT317	-ABT318
	.310				
WASHER	.335	.545	.100	-ABT318	-ABT317

NOTE: ABT INDICATES ALUMINUM ALLOY, BLACK ENAMEL TELESCOPIC EYELET OR WASHER.

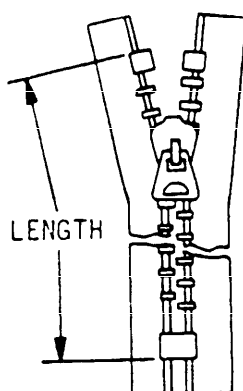
BBT INDICATES BRASS, BLACK CHEMICAL FINISH TELESCOPIC EYELET OR WASHER.

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SECTION 201
FASTENERS - INTERLOCKING SLIDE
APPLICABLE DOCUMENT: AN229

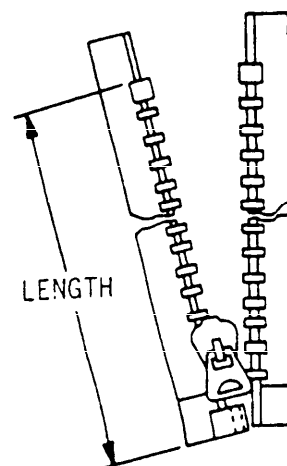
TYPE A

NON-SEPARATING,
SINGLE ACTION



TYPE B

SEPARATING,
SINGLE ACTION



MATERIAL	PROTECTIVE FINISH (CHAIN)
BRASS	NATURAL

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TABLE I. TYPE "A" CONFIGURATION DASH NUMBERS.

SIZE	LENGTH	AN229 DASH NO.		SIZE	LENGTH	AN229 DASH NO.	
		LOCKING	NONLOCKING			LOCKING	NONLOCKING
1 (LIGHT-MEDIUM SERVICE)	2	-1AL8-I	-1AS8-I	2 (MEDIUM SERVICE)	15	-2AL60-I	-2AS60-I
	3	12	12		16	64	64
	4	16	16		17	68	68
	5	20	20		18	72	72
	6	24	24		19	76	76
	7	28	28		20	80	80
	8	32	32		21	84	84
	9	36	36		22	88	88
	10	40	40		23	92	92
	11	44	44		24	96	96
	12	48	48		25	100	100
	13	52	52		26	104	104
	14	56	56		27	108	108
	15	60	60		28	112	112
	16	64	64		29	116	116
	17	68	68		30	120	120
	18	72	72		31	124	124
	19	76	76		32	128	128
	20	80	80		33	132	132
	22	88	88		34	136	136
24	96	96	35	140	140		
26	104	104	36	144	144		
28	112	112	37	148	148		
30	120	120	38	152	152		
32	128	128	39	156	156		
34	136	136	40	160	160		
36	144	144	41	164	164		
2 (MEDIUM SERVICE)	4	-2AL16-I	-2AS16-I	42	168	168	
	5	20	20	43	172	172	
	6	24	24	44	176	176	
	7	28	28	45	180	180	
	8	32	32	46	184	184	
	9	36	36	47	188	188	
	10	40	40	48	192	192	
	11	44	44	49	196	196	
	12	48	48	50	200	200	
	13	52	52	51	204	204	
	14	56	56	52	208	208	

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TABLE I. TYPE "A" CONFIGURATION DASH NUMBERS. - CONTINUED

SIZE	LENGTH	AN229 DASH NO.		SIZE	LENGTH	AN229 DASH NO.	
		LOCKING	NONLOCKING			LOCKING	NONLOCKING
2 (MEDIUM SERVICE)	53	-2AL212-I	-2AS212-I	4 (HEAVY SERVICE)	14	-4AL56-I	-4AS56-I
	54	216	216		15	60	60
	55	220	220		16	64	64
	56	224	224		17	68	68
	57	228	228		18	72	72
	58	232	232		19	76	76
	59	236	236		20	80	80
	60	240	240		21	84	84
	61	244	244		22	88	88
	62	248	248		23	92	92
	63	252	252		24	96	96
	64	256	256		25	100	100
	65	260	260		26	104	104
	66	264	264		27	108	108
	67	268	268		28	112	112
	68	272	272		29	116	116
	69	276	276		30	120	120
	70	280	280		31	124	124
	71	284	284		32	128	128
	72	288	288		33	132	132
73	292	292	34	136	136		
74	296	296	35	140	140		
75	300	300	36	144	144		
76	304	304	37	148	148		
77	308	308	38	152	152		
78	312	312	39	156	156		
79	316	316	40	160	160		
80	320	320	41	164	164		
4 (HEAVY SERVICE)	4	-4AL16-I	-4AS16-I	42	168	168	
	5	20	20	43	172	172	
	6	24	24	44	176	176	
	7	28	28	45	180	180	
	8	32	32	46	184	184	
	9	36	36	47	188	188	
	10	40	40	48	192	192	
	11	44	44	49	196	196	
	12	48	48	50	200	200	
	13	52	52	51	204	204	
				52	208	208	

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TABLE I. TYPE "A" CONFIGURATION DASH NUMBERS. - CONTINUED

SIZE	LENGTH	AN229 DASH NO.		SIZE	LENGTH	AN229 DASH NO.	
		LOCKING	NONLOCKING			LOCKING	NONLOCKING
4 (HEAVY SERVICE)	53	-4AL212-I	-4AS212-I	4 (HEAVY SERVICE)	57	-4AL228-I	-4AS228-I
	54	216	216		58	232	232
	55	220	220		59	236	236
	56	224	224		60	240	240

TABLE II. TYPE "B" CONFIGURATION DASH NUMBERS.

SIZE	LENGTH	AN229 DASH NO.		SIZE	LENGTH	AN229 DASH NO.	
		LOCKING	NONLOCKING			LOCKING	NONLOCKING
2 (MEDIUM SERVICE)	5	-2BL20-I	-2BS20-I	4 (HEAVY SERVICE)	8	-4BL32-I	-4BS32-I
	6	24	24		9	36	36
	7	28	28		10	40	40
	8	32	32		11	44	44
	9	36	36		12	48	48
	10	40	40		13	52	52
	11	44	44		14	56	56
	12	48	48		15	60	60
	13	52	52		16	64	64
	14	56	56		17	68	68
	15	60	60		18	72	72
	16	64	64		19	76	76
	17	68	68		20	80	80
	18	72	72		21	84	84
	19	76	76		22	88	88
	20	80	80		23	92	92
	21	84	84		24	96	96
	22	88	88		25	100	100
	23	92	92		26	104	104
	24	96	96		27	108	108
25	100	100	28	112	112		
26	104	104	29	116	116		
27	108	108	30	120	120		
28	112	112	31	124	124		
29	116	116	32	128	128		
30	120	120	33	132	132		
4 (HEAVY SERVICE)	6	-4BL24-I	-4BS24-I	34	136	136	
	7	28	28	35	140	140	

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TABLE II. TYPE "B" CONFIGURATION DASH NUMBERS. - CONTINUED

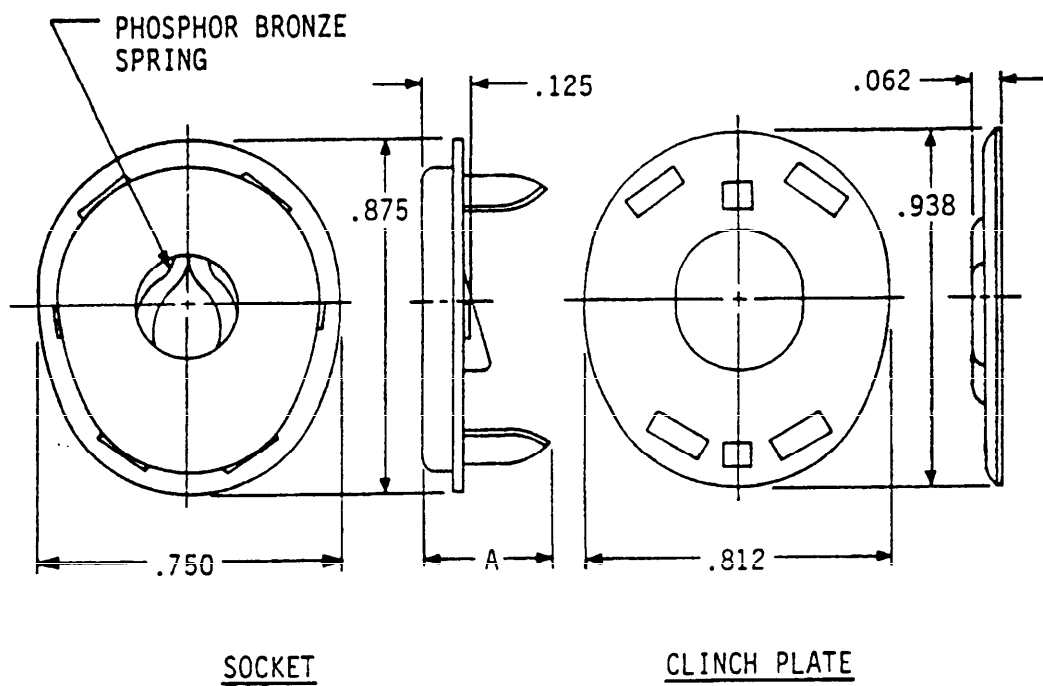
SIZE	LENGTH	AN229 DASH NO.		SIZE	LENGTH	AN229 DASH NO.	
		LOCKING	NONLOCKING			LOCKING	NONLOCKING
4 (HEAVY SERVICE)	36	-4BL144-I	-4BS144-I	4 (HEAVY SERVICE)	59	-4BL236-I	-4BS236-I
	37	148	148		60	240	240
	38	152	152		61	244	244
	39	156	156		62	248	248
	40	160	160		63	252	252
	41	164	164		64	256	256
	42	168	168		65	260	260
	43	172	172		66	264	264
	44	176	176		67	268	268
	45	180	180		68	272	272
	46	184	184		69	276	276
	47	188	188		70	280	280
	48	192	192		71	284	284
	49	196	196		72	288	288
	50	200	200		73	292	292
	51	204	204		74	296	296
	52	208	208		75	300	300
	53	212	212		76	304	304
	54	216	216		77	308	308
	55	220	220		78	312	312
	56	224	224		79	316	316
57	228	228	80	320	320		
58	232	232					

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SECTION 301

FASTENERS, SNAP, STYLE 1, LARGE CURTAIN TYPE

APPLICABLE DOCUMENT: MS27977



(OPERATES ON SINGLE POINT LIFT PRINCIPLE)

MATERIAL	PROTECTIVE FINISH
BRASS (SEE NOTE 2)	BLACK OR NICKEL PLATE

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TABLE I. CLINCH PLATE AND SOCKET CONFIGURATION DASH NUMBER.

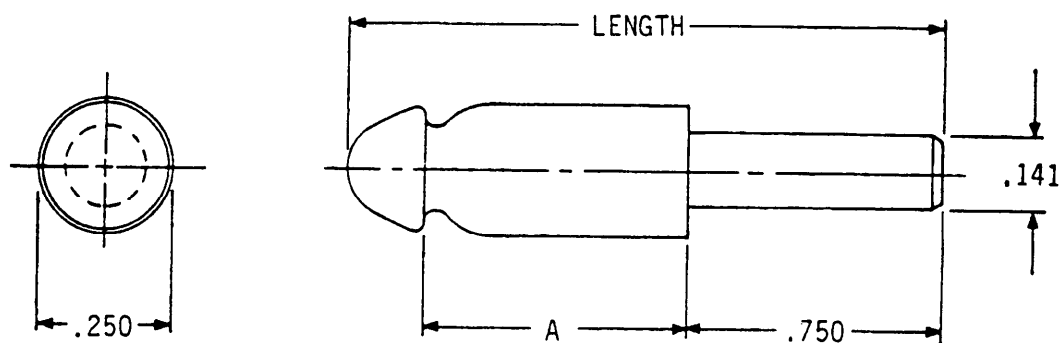
PART	A	MS27977 DASH NO.	
		BLACK	NICKEL PLATE
SOCKET, REG. PRONG	.328	-1B	-1N
SOCKET, LONG PRONG	.375	-2B	-2N
CLINCH PLATE	--	-3B	-3N

1. SOCKET AND CLINCH PLATE CONSTITUTE THE FEMALE HALF OF THE STYLE 1 FASTENERS. THE FOLLOWING PARTS IN THIS SECTION CONSTITUTE THE MALE HALF.
2. UNLESS OTHERWISE SPECIFIED, ALL COMPONENTS ARE BRASS.

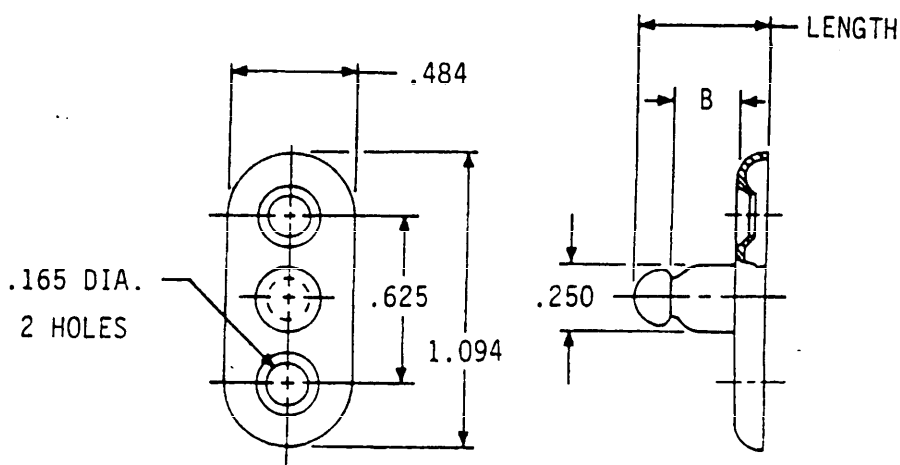
MIL-STD-1754
29 December 1978

FASTENERS, SNAP, STYLE 1, LARGE CURTAIN TYPE

APPLICABLE DOCUMENT: MS27977



STUD, SOLID RIVET BASE



STUD, TWO SCREW BASE

MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATED

MIL-STD-1754
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TABLE II. STUD CONFIGURATION DASH NUMBERS.

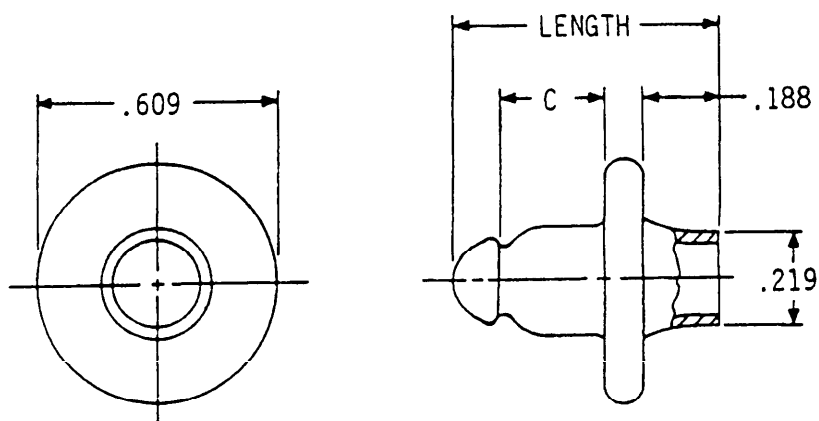
PART	A	B	LENGTH	MS27977 DASH NO.	
				BLACK	NICKEL PLATE
STUD, SOLID	.281	— —	1.172	-4B	-4N
RIVET BASE	.500	— —	1.391	-5B	-5N
STUD, TWO SCREW BASE	— —	.250	.500	-6B	-6N
	— —	.500	.750	-7B	-7N

NOTE: STUD, AS APPLICABLE, CONSTITUTES THE MALE HALF OF THE STYLE 1 FASTENER. (SEE PAGE 301.1 FOR THE FEMALE HALF.)

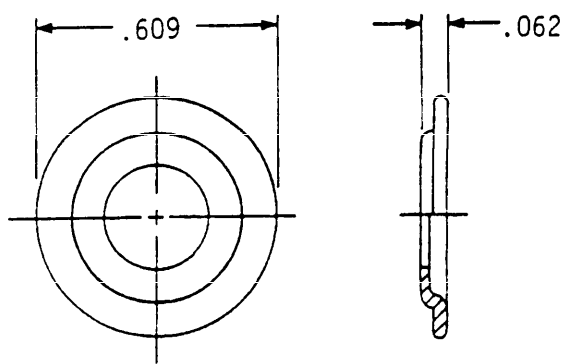
MIL-STD-1754
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FASTENERS, SNAP, STYLE 1, LARGE CURTAIN TYPE

APPLICABLE DOCUMENT: MS27977



STUD, EYELET BASE



WASHER

MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

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29 December 1978

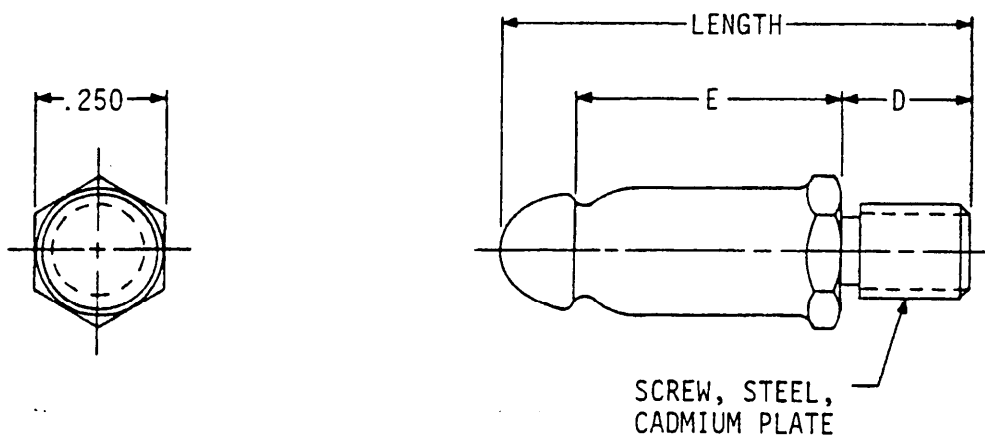
TABLE III. STUD AND WASHER CONFIGURATION DASH NUMBERS.

PART	C	LENGTH	MS27977 DASH NO.	
			BLACK	NICKEL PLATE
STUD, EYELET BASE	.265	.688	-8B	-8N
	.500	.922	-9B	-9N
WASHER	--	--	-10B	-10N

NOTE: STUD AND WASHER, AS APPLICABLE, CONSTITUTE THE MALE HALF OF THE STYLE 1 FASTENER. (SEE PAGE 301.1 FOR THE FEMALE HALF.)

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FASTENERS, SNAP, STYLE 1, LARGE CURTAIN TYPE
APPLICABLE DOCUMENT: MS27977



STUD, MACHINE SCREW BASE, SMALL HEX

MATERIAL	PROTECTIVE FINISH
BRASS (SEE NOTE 2)	BLACK OR NICKEL PLATE

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29 December 1978

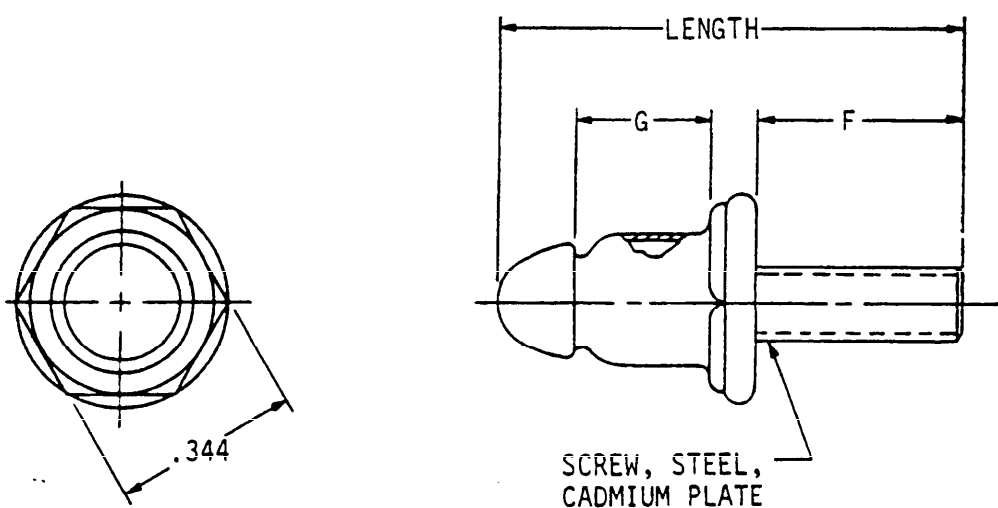
TABLE IV. STUD CONFIGURATION DASH NUMBERS.

THREAD SIZE	E	D	LENGTH	MS27977 DASH NO.	
				BLACK	NICKEL PLATE
NO. 8- 32UNC -2A	.250	.188	.578	-11B	-11N
		.250	.641	-12B	-12N
		.375	.766	-13B	-13N
		.625	1.016	-14B	-14N
	.500	.188	.828	-15B	-15N
		.250	.891	-16B	-16N
		.375	1.016	-17B	-17N
		.625	1.266	-18B	-18N
NO. 10- 32UNF -2A	.250	.188	.578	-19B	-19N
		.250	.641	-20B	-20N
		.375	.766	-21B	-21N
		.625	1.016	-22B	-22N
	.500	.188	.828	-23B	-23N
		.250	.891	-24B	-24N
		.375	1.016	-25B	-25N
		.625	1.266	-26B	-26N

- NOTE: 1. STUD, AS APPLICABLE, CONSTITUTES THE MALE HALF OF STYLE 1 FASTENER.
(SEE PAGE 301.1 FOR THE FEMALE HALF.)
2. UNLESS OTHERWISE SPECIFIED, ALL COMPONENTS ARE BRASS.

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FASTENERS, SNAP, STYLE 1, LARGE CURTAIN TYPE
 APPLICABLE DOCUMENT: MS27977



STUD, MACHINE SCREW BASE, LARGE HEX

MATERIAL	PROTECTIVE FINISH
BRASS (SEE NOTE 2)	BLACK OR NICKEL PLATE

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TABLE V. STUD CONFIGURATION DASH NUMBERS.

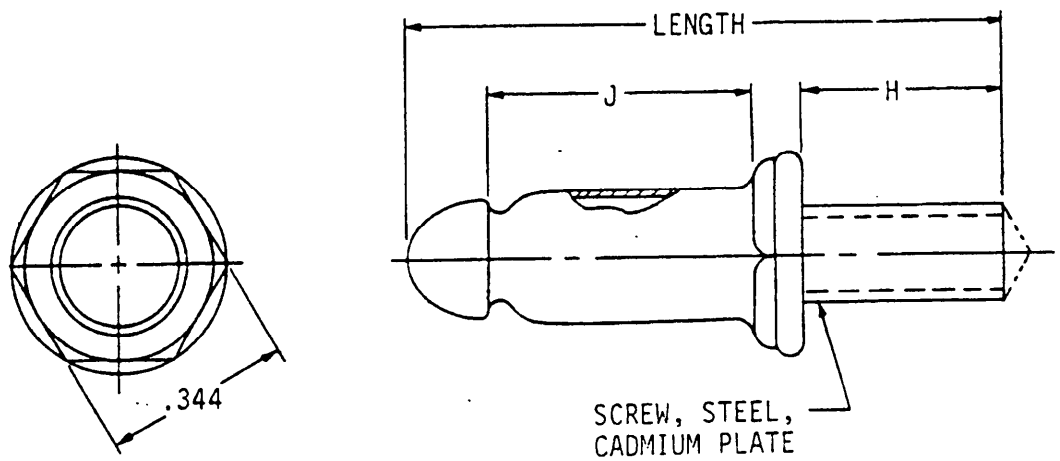
THREAD SIZE	G	F	LENGTH	MS27977 DASH NO.	
				BLACK	NICKEL PLATE
NO. 8- 32UNC -2A	.250	.188	.688	-27B	-27N
		.250	.750	-28B	-28N
		.375	.875	-29B	-29N
		.625	1.125	-30B	-30N
	.500	.188	.938	-31B	-31N
		.250	1.000	-32B	-32N
		.375	1.125	-33B	-33N
		.625	1.375	-34B	-34N

THREAD SIZE	G	F	LENGTH	MS27977 DASH NO.	
				BLACK	NICKEL PLATE
NO. 10- 32UNF -2A	.250	.188	.688	-35B	-35N
		.250	.750	-36B	-36N
		.375	.875	-37B	-37N
		.625	1.125	-38B	-38N
	.500	.188	.938	-39B	-39N
		.250	1.000	-40B	-40N
		.375	1.125	-41B	-41N
		.625	1.375	-42B	-42N

- NOTE: 1. STUD, AS APPLICABLE, CONSTITUTES THE MALE HALF OF STYLE 1 FASTENER.
 (SEE PAGE 301.1 FOR THE FEMALE HALF.)
2. UNLESS OTHERWISE SPECIFIED, ALL COMPONENTS ARE BRASS.

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FASTENERS, SNAP, STYLE 1, LARGE CURTAIN TYPE
 APPLICABLE DOCUMENT: MS27977



STUD, SELF-TAPPING SCREW BASE

MATERIAL	PROTECTIVE FINISH
BRASS (SEE NOTE 2)	BLACK OR NICKEL PLATE

MIL-STD-1754
29 December 1978

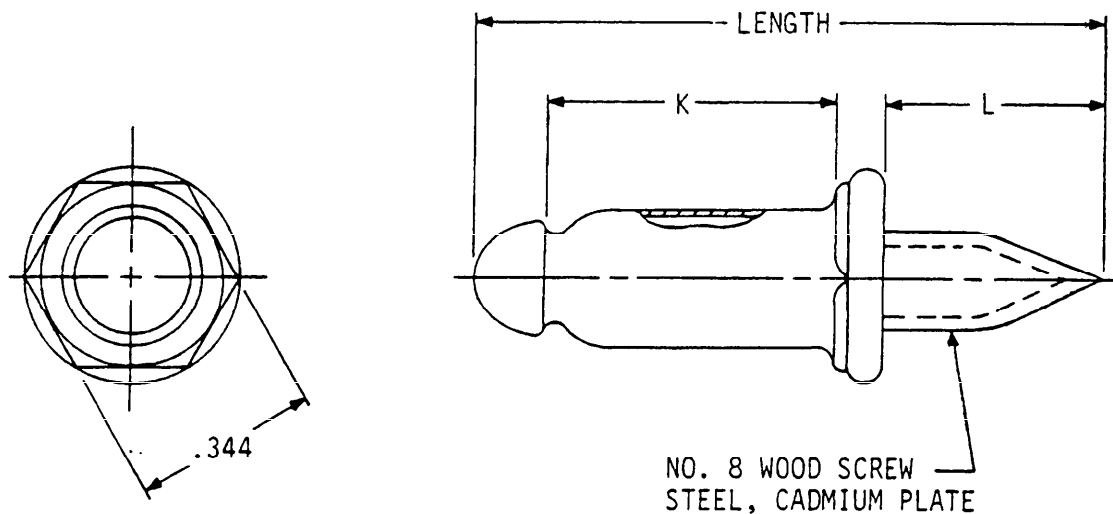
TABLE VI. STUD CONFIGURATION DASH NUMBERS.

SCREW SIZE & TYPE POINT	J	H	LENGTH	MS27977 DASH NO.	
				BLACK	NICKEL PLATE
NO. 8 GIMLET POINT	.250	.375	.875	-43B	-43N
	.500	.375	1.125	-44B	-44N
NO. 10 BLUNT POINT	.250	.375	.875	-47B	-47N
		.500	1.000	-48B	-48N
		.625	1.125	-49B	-49N
	.500	.375	1.125	-50B	-50N
		.500	1.250	-51B	-51N
		.625	1.375	-52B	-52N

- NOTE: 1. STUD, AS APPLICABLE, CONSTITUTES THE MALE HALF OF STYLE 1 FASTENER.
 (SEE PAGE 301.1 FOR THE FEMALE HALF.)
2. UNLESS OTHERWISE SPECIFIED, ALL COMPONENTS ARE BRASS.

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FASTENERS, SNAP, STYLE 1, LARGE CURTAIN TYPE
APPLICABLE DOCUMENT: MS27977



STUD, WOOD SCREW BASE

MATERIAL	PROTECTIVE FINISH
BRASS (SEE NOTE 2)	BLACK OR NICKEL PLATE

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TABLE VII. STUD CONFIGURATION DASH NUMBERS.

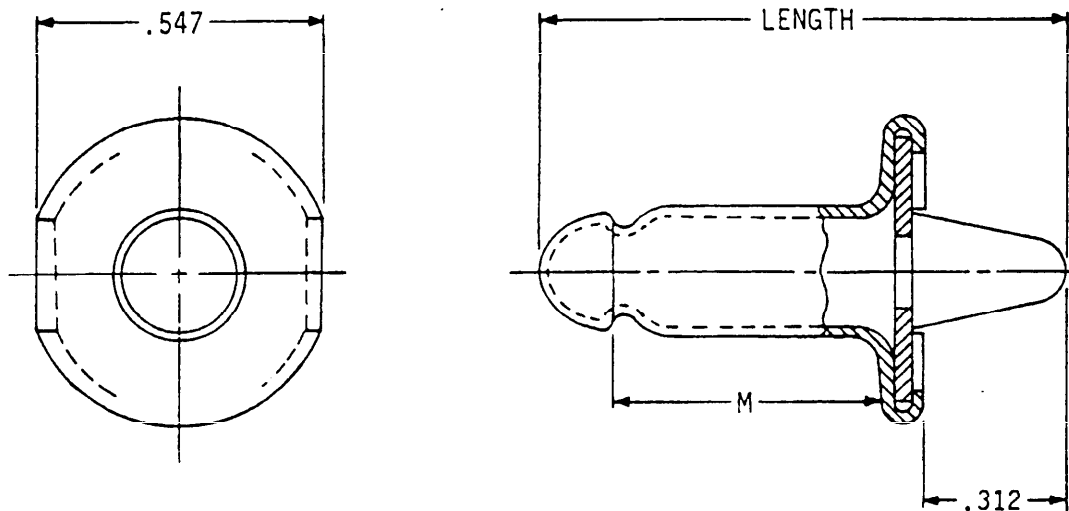
L	K	LENGTH	MS27977 DASH NO.	
			BLACK	NICKEL PLATE
.375	.266	.891	-59B	-59N
	.500	1.125	-60B	-60N
.750	.266	1.266	-61B	-61N
	.500	1.500	-62B	-62N

- NOTE: 1. STUD, AS APPLICABLE, CONSTITUTES MALE HALF OF STYLE 1 FASTENER.
 (SEE PAGE 301.1 FOR THE FEMALE HALF.)
2. UNLESS OTHERWISE SPECIFIED, ALL COMPONENTS ARE BRASS.

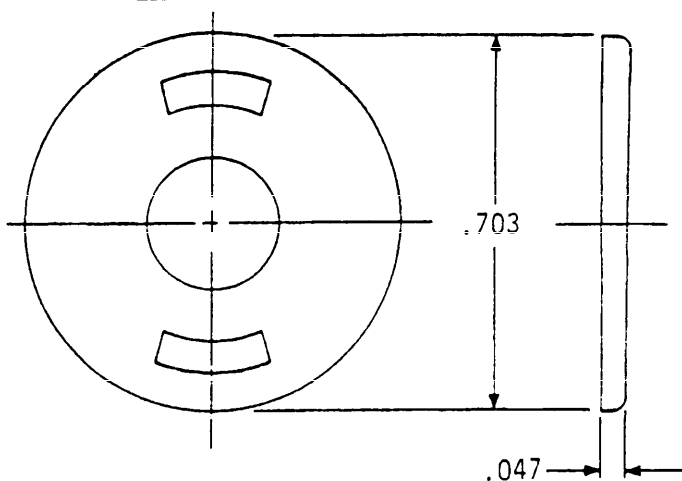
MIL-STD-1754
29 December 1978

FASTENERS, SNAP, STYLE 1, LARGE CURTAIN TYPE

APPLICABLE DOCUMENT: MS27977



STUD, TWO PRONG, CLINCH BASE



WASHER

MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

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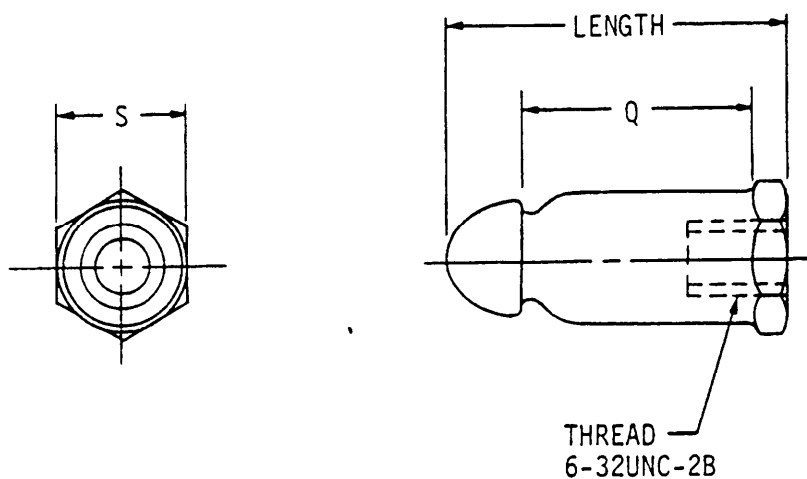
TABLE VIII. STUD AND WASHER CONFIGURATION DASH NUMBERS.

PART	M	LENGTH	MS27977 DASH NO.	
			BLACK	NICKEL PLATE
STUD	.281	.828	-63B	-63N
STUD	.500	1.047	-64B	-64N
WASHER	--	--	-65B	-65N

NOTE: STUD AND WASHER, AS APPLICABLE, CONSTITUTE THE MALE HALF OF THE STYLE 1 FASTENER. (SEE PAGE 301.1 FOR THE FEMALE HALF.)

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FASTENERS, SNAP, STYLE 1, LARGE CURTAIN TYPE
APPLICABLE DOCUMENT: MS27977



STUD, INTERNAL THREAD

MATERIAL	PROTECTIVE FINISH
BRASS (SEE NOTE 2)	BLACK OR NICKEL PLATE

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TABLE IX. STUD CONFIGURATION DASH NUMBERS.

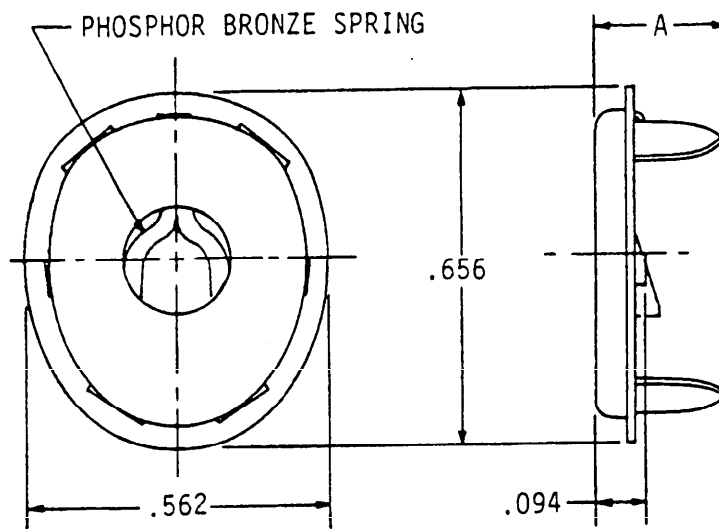
PART	S	Q	LENGTH	MS27977 DASH NO.	
				BLACK	NICKEL PLATE
SHELL CONSTRUCTION WITH CADMIUM PLATED STEEL THREADED INSERT	.344	.531	.531	-66B	-66N
		.766	.766	-67B	-67N
SOLID CONSTRUCTION WITH TAPPED HOLE	.250	.531	.531	-68B	-68N
		.766	.766	-69B	-69N

- NOTE: 1. STUD, AS APPLICABLE, CONSTITUTES THE MALE HALF OF THE STYLE 1 FASTENER. (SEE PAGE 301.1 FOR THE FEMALE HALF.)
2. UNLESS OTHERWISE SPECIFIED, ALL COMPONENTS ARE BRASS.

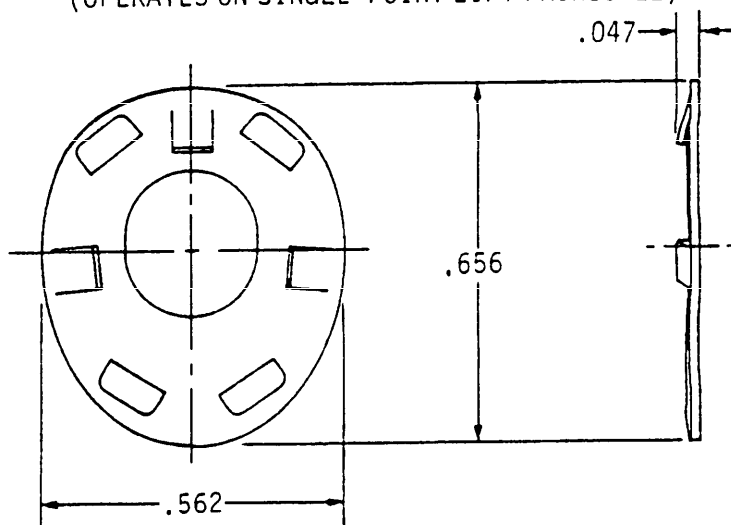
MIL-STD-1754
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SECTION 302

FASTENERS, SNAP, STYLE 1A, SMALL CURTAIN TYPE
APPLICABLE DOCUMENT: MS27978



SOCKET
(OPERATES ON SINGLE POINT LIFT PRINCIPLE)



CLINCH PLATE

MATERIAL	PROTECTIVE FINISH
BRASS (SEE NOTE 2)	BLACK OR NICKEL PLATE

MIL-STD-1754

29 December 1978

TABLE I. CLINCH PLATE AND SOCKET CONFIGURATION DASH NUMBER.

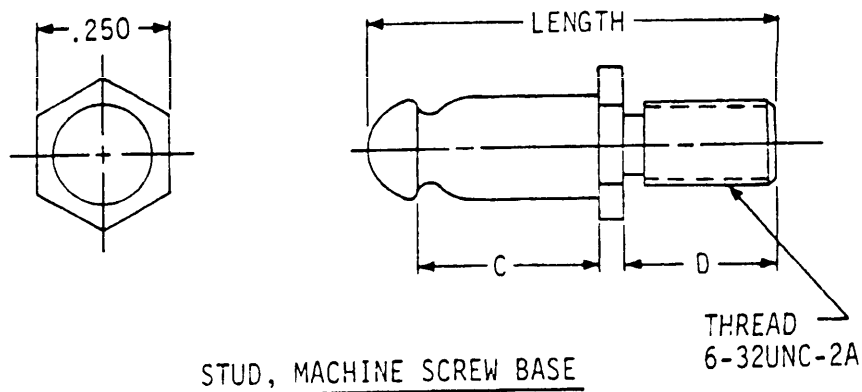
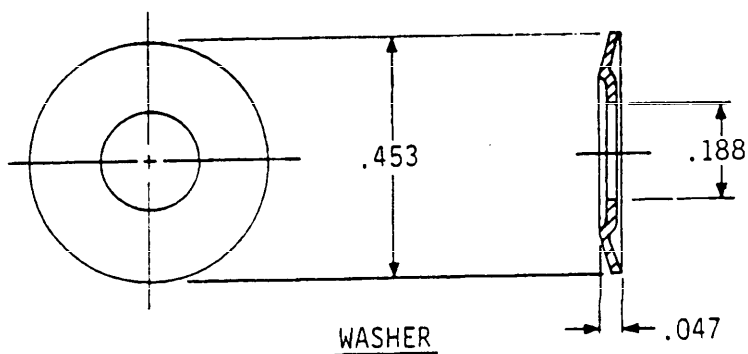
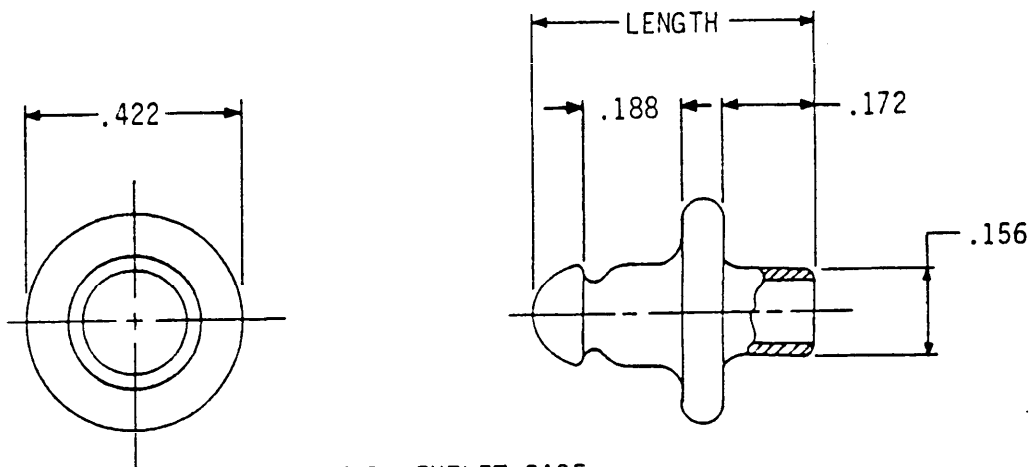
PART	A	MS27978 DASH NO.	
		BLACK	NICKEL PLATE
SOCKET REG. PRONG	.250	-1B	-1N
SOCKET LONG PRONG	.297	-2B	-2N
CLINCH PLATE	--	-3B	-3N

- NOTES: 1. SOCKET AND CLINCH PLATE CONSTITUTE THE FEMALE HALF OF THE STYLE 1A FASTENER. THE FOLLOWING PARTS IN THIS SECTION CONSTITUTE THE MALE HALF.
2. UNLESS OTHERWISE SPECIFIED, ALL COMPONENTS ARE BRASS.

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FASTENERS, SNAP, STYLE 1A, SMALL CURTAIN TYPE

APPLICABLE DOCUMENT: MS27978



MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

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TABLE II. STUD AND WASHER CONFIGURATION DASH NUMBERS.

PART	C	D	LENGTH	MS27978 DASH NO.	
				BLACK	NICKEL PLATE
STUD, EYELET BASE	--	--	.531	-4B	-4N
WASHER	--	--	--	-5B	-5N
STUD, MACH SCREW BASE	.188	.312	.641	-6B	-6N
		.438	.766	-7B	-7N
		.562	.891	-8B	-8N
	.344	.312	.797	-9B	-9N
		.438	.922	-10B	-10N
		.562	1.047	-11B	-11N

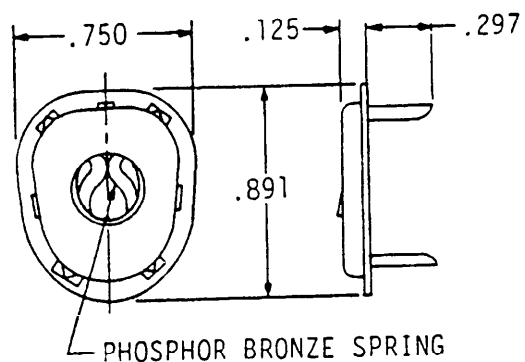
NOTE: 1. STUD AND WASHER AS APPLICABLE CONSTITUTE THE MALE HALF OF THE STYLE 1A FASTENER. (SEE PAGE 302.1 FOR THE FEMALE HALF.)

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SECTION 303

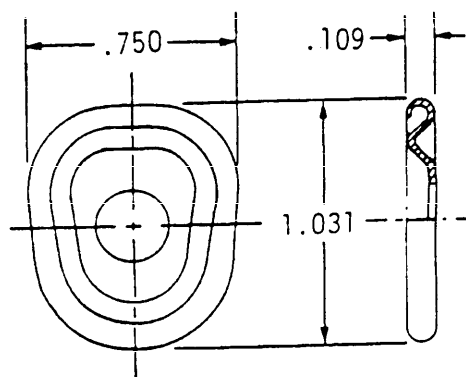
FASTENER, SNAP, STYLE 1B, MUD-PROOF CURTAIN TYPE

APPLICABLE DOCUMENT: MS27979



SOCKET

(OPERATES ON SINGLE POINT LIFT PRINCIPLE)



CLINCH PLATE

MATERIAL	PROTECTIVE FINISH
BRASS (SEE NOTE 2)	BLACK

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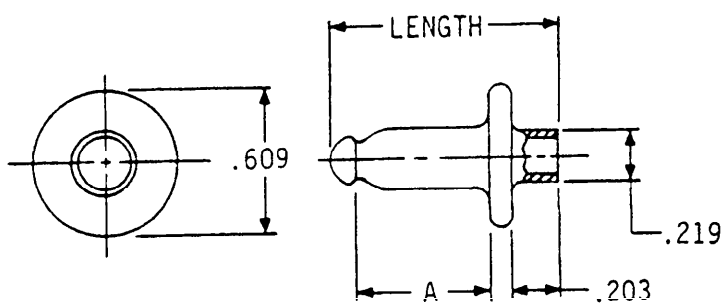
TABLE I. CLINCH PLATE AND SOCKET CONFIGURATION DASH NUMBER.

PART	MS27979 DASH NO.
SOCKET	-1
CLINCH PLATE	-2

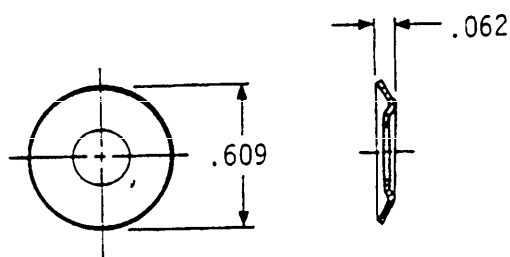
- NOTE: 1. SOCKET AND CLINCH PLATE CONSTITUTE THE FEMALE HALF OF STYLE 1B FASTENER. (SEE PAGE 303.1 FOR THE MALE HALF.)
2. UNLESS OTHERWISE SPECIFIED, ALL COMPONENTS ARE BRASS.

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29 December 1978

FASTENER, SNAP, STYLE 1B, MUD-PROOF CURTAIN TYPE
 APPLICABLE DOCUMENT: MS27979



STUD, EYELET BASE



WASHER

MATERIAL	PROTECTIVE FINISH
BRASS	BLACK

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TABLE II. STUD AND WASHER CONFIGURATION DASH NUMBERS.

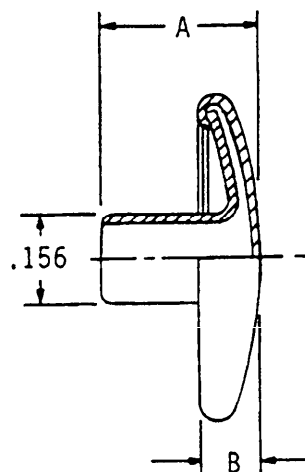
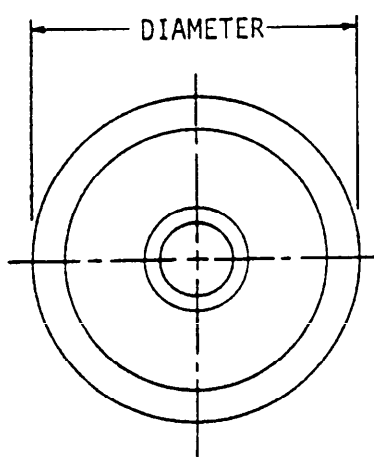
PART	A	LENGTH	MS27979 DASH NO.
STUD, EYELET BASE	.172	.578	-5
STUD, EYELET BASE	.359	.766	-4
STUD, EYELET BASE	.562	.969	-3
WASHER	--	--	-6

NOTE: STUD, AS APPLICABLE CONSTITUTES THE MALE HALF OF THE STYLE 1B FASTENER.
(SEE PAGE 303.1 FOR THE FEMALE HALF.)

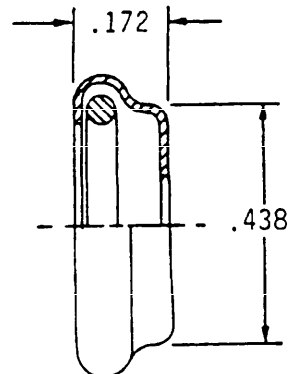
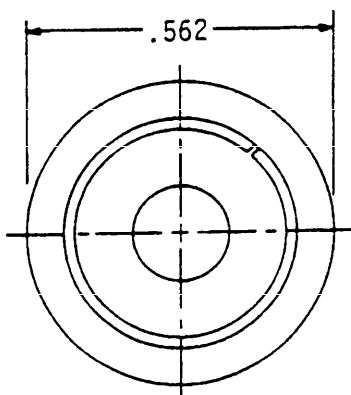
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SECTION 304

FASTENERS, SNAP, STYLE 2, REGULAR WIRE SPRING CLAMP TYPE
APPLICABLE DOCUMENT: MS27980



BUTTON



SOCKET

MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

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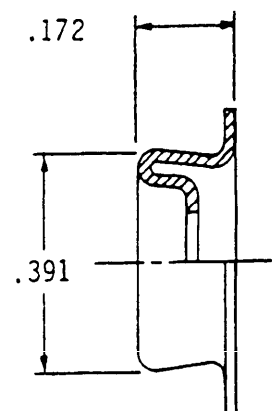
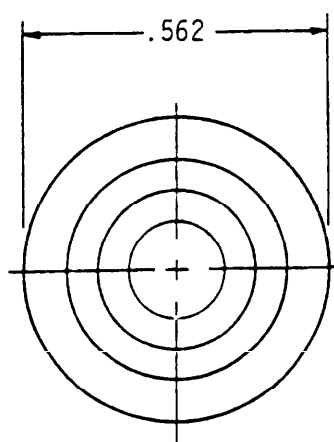
TABLE I. BUTTON AND SOCKET CONFIGURATION DASH NUMBERS.

DIAMETER	A	B	MS27980 DASH NO.	
			BLACK	NICKEL PLATE
.600	.281	.109	-1B	-1N
.600	.375	.109	-2B	-2N
.500	.297	.109	-3B	-3N
.750	.297	.156	-4B	-4N

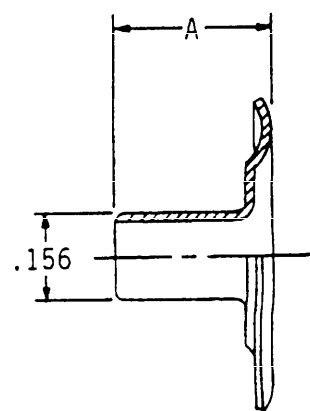
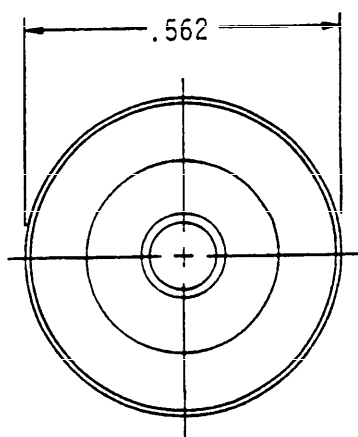
NOTE: BUTTON AND SOCKET, AS APPLICABLE, CONSTITUTE THE FEMALE HALF OF THE STYLE 2 FASTENER. THE FOLLOWING PARTS IN THIS SECTION CONSTITUTE THE MALE HALF.

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FASTENERS, SNAP, STYLE 2, REGULAR WIRE SPRING CLAMP TYPE
 APPLICABLE DOCUMENT: MS27980



STUD



EYELET

MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

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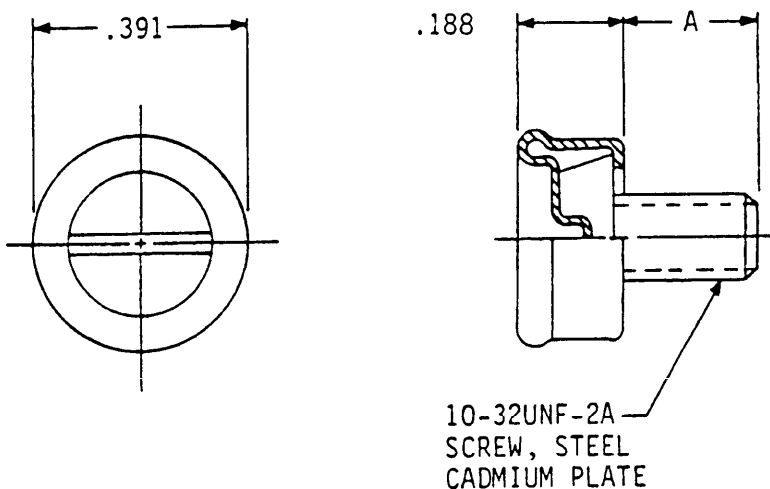
TABLE II. STUD AND EYELET CONFIGURATION DASH NUMBERS.

PART	A	MS27980 DASH NO.	
		BLACK	NICKEL PLATE
STUD	--	-7B	-7N
EYELET	.281	-8B	-8N
EYELET	.344	-9B	-9N

NOTE: STUD AND EYELET, AS APPLICABLE, CONSTITUTE THE MALE HALF OF THE STYLE 2 FASTENER. (SEE PAGE 304.1 FOR THE FEMALE HALF.)

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FASTENERS, SNAP, STYLE 2, REGULAR WIRE SPRING CLAMP TYPE
 APPLICABLE DOCUMENT: MS27980



STUD, MACHINE SCREW BASE

MATERIAL	PROTECTIVE FINISH
BRASS (SEE NOTE 2)	BLACK OR NICKEL PLATE

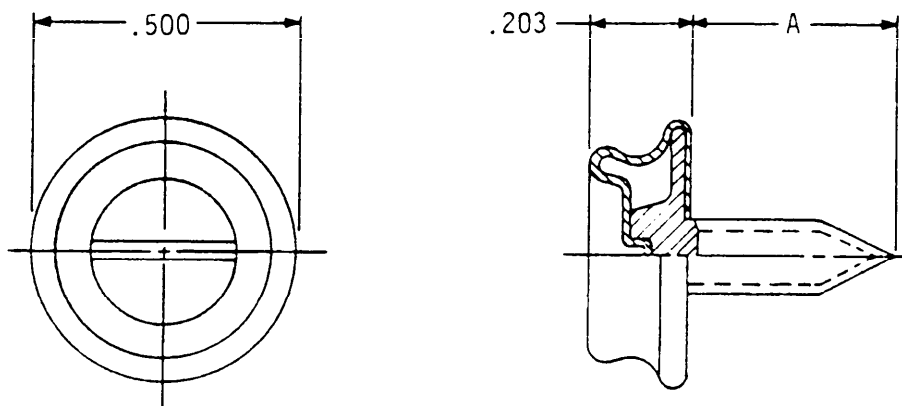
TABLE III. STUD CONFIGURATION DASH NUMBERS.

A	MS27980 DASH NO.	
	BLACK	NICKEL PLATE
.250	-15B	-15N
.312	-16B	-16N
.375	-17B	-17N
.625	-18B	-18N

- NOTES: 1. STUD, AS APPLICABLE, CONSTITUTES THE MALE HALF OF THE STYLE FASTENER. (SEE PAGE 304.1 FOR THE FEMALE HALF.)
 2. UNLESS OTHERWISE SPECIFIED, ALL COMPONENTS ARE BRASS.

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FASTENERS, SNAP, STYLE 2, REGULAR WIRE SPRING CLAMP TYPE
 APPLICABLE DOCUMENT: MS27980



MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

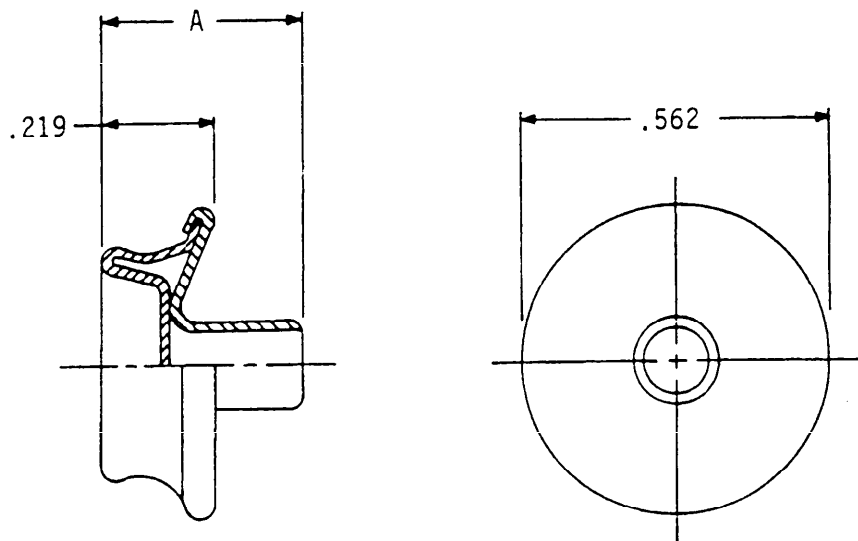
TABLE IV. STUD CONFIGURATION DASH NUMBERS.

PART	SCREW SIZE	A	MS27980 DASH NO.	
			BLACK	NICKEL PLATE
STUD, WOOD SCREW BASE	NO. 7	.625	-19B	-19N
STUD, SELF-TAPPING SCREW BASE	NO. 7	.375	-20B	-20N
STUD, SELF-TAPPING SCREW BASE	NO. 10	.625	-21B	-21N

NOTE: STUD, AS APPLICABLE, CONSTITUTES THE MALE HALF OF THE STYLE 2 FASTENER.
 (SEE PAGE 304.1 FOR THE FEMALE HALF.)

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FASTENERS, SNAP, STYLE 2, REGULAR WIRE SPRING CLAMP TYPE
APPLICABLE DOCUMENT: MS27980



STUD-EYELET COMBINATION

MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

TABLE V. STUD CONFIGURATION DASH NUMBERS.

PART	A	MS27980 DASH NO.	
		BLACK	NICKEL PLATE
STUD-EYELET COMB.	.344	-26B	-26N
STUD-EYELET COMB.	.391	-27B	-27N

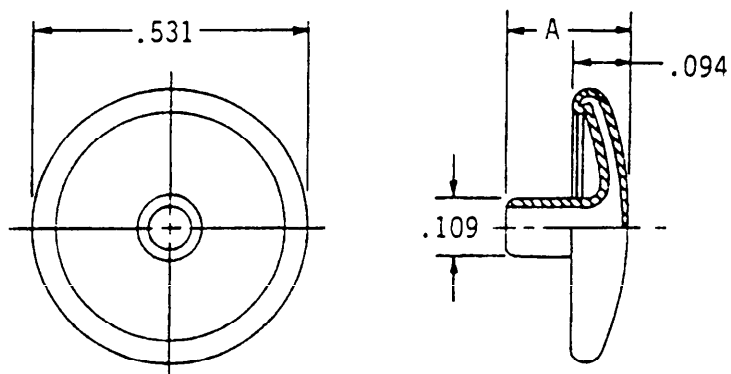
NOTE: STUD AND EYELET COMBINATION, AS APPLICABLE, CONSTITUTE THE MALE HALF OF THE STYLE 2 FASTENER. (SEE PAGE 304.1 FOR THE FEMALE HALF.)

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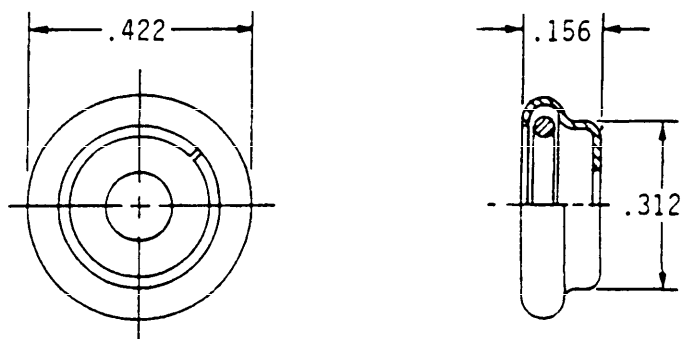
SECTION 305

FASTENERS, SNAP, STYLE 2A, SMALL WIRE SPRING CLAMP TYPE

APPLICABLE DOCUMENT: MS27981



BUTTON



SOCKET

MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

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29 December 1978

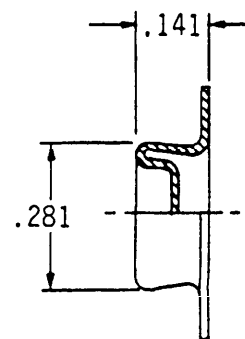
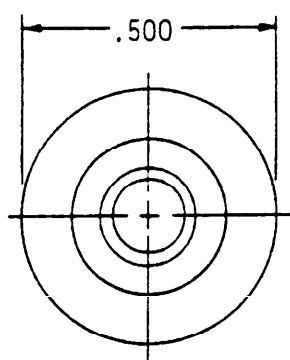
TABLE I. BUTTON AND SOCKET CONFIGURATION DASH NUMBERS.

PART	A	MS27981 DASH NO.	
		BLACK	NICKEL PLATE
BUTTON	.219	-1B	-1N
BUTTON	.281	-2B	-2N
SOCKET	--	-3B	-3N

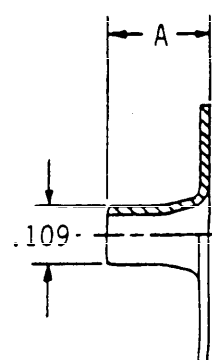
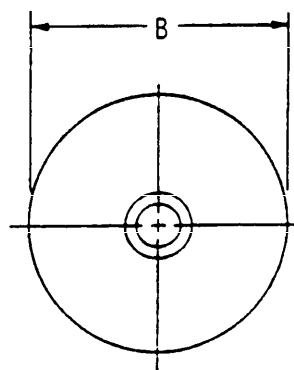
NOTE: BUTTON AND SOCKET, AS APPLICABLE, CONSTITUTE THE FEMALE HALF OF THE STYLE 2A FASTENER. (SEE PAGE 305.3 FOR THE MALE HALF.)

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FASTENERS, SNAP, STYLE 2A, SMALL WIRE SPRING CLAMP TYPE
 APPLICABLE DOCUMENT: MS27981



STUD



EYELET

MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

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TABLE II. STUD AND EYELET CONFIGURATION DASH NUMBERS.

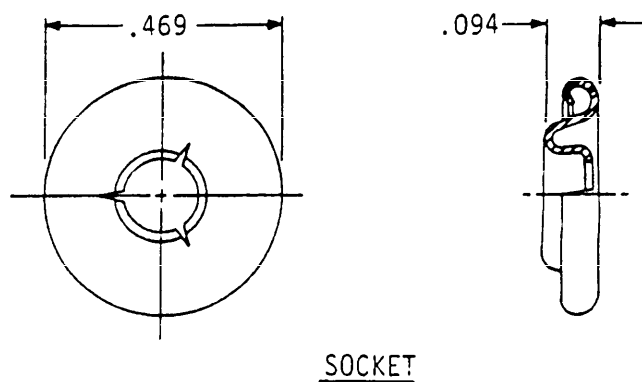
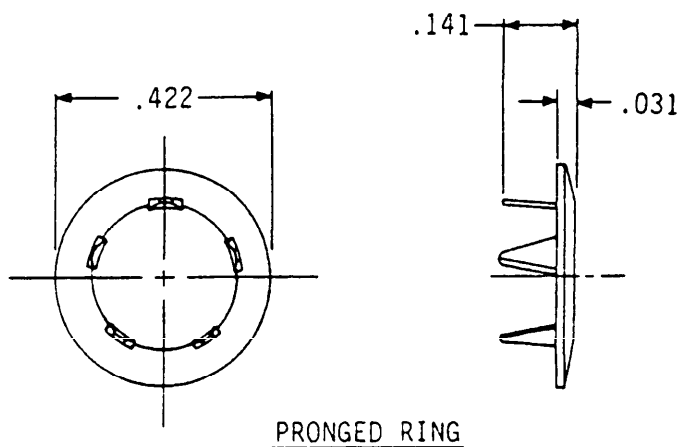
PART	A	B	MS27981 DASH NO.	
			BLACK	NICKEL PLATE
STUD	--	--	-4B	-4N
EYELET	.188	.500	-5B	-5N
EYELET	.250	.500	-6B	-6N

NOTE: STUD AND EYELET, AS APPLICABLE, CONSTITUTE THE MALE HALF OF STYLE 2A FASTENER. (SEE PAGE 305.1 FOR THE FEMALE HALF.)

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SECTION 306

FASTENERS, SNAP, STYLE 3, PRONGED RING-HEAD TYPE
APPLICABLE DOCUMENT: MS27982



MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

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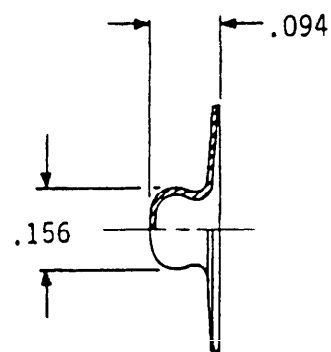
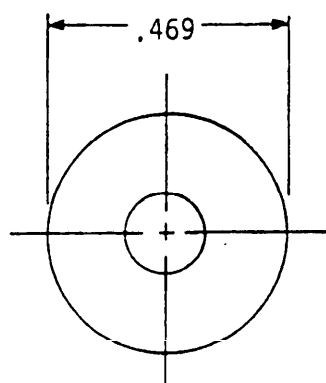
TABLE II. PRONGED RING AND SOCKET CONFIGURATION DASH NUMBERS.

PART	MS27982 DASH NO.	
	BLACK	NICKEL PLATE
PRONGED RING	-1B	-1N
SOCKET	-2B	-2N

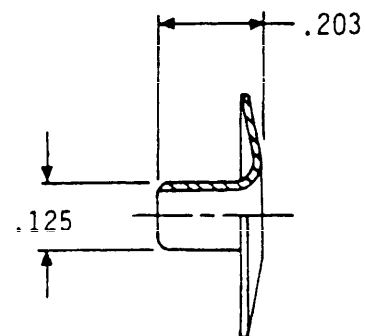
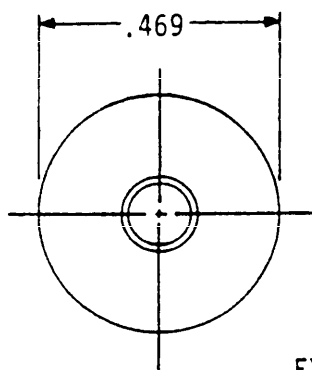
NOTE: PRONGED RING AND SOCKET CONSTITUTE THE FEMALE HALF OF THE STYLE 3 FASTENER. (SEE PAGE 306.3 FOR THE MALE HALF.)

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FASTENERS, SNAP, STYLE 3, PRONGED RING-HEAD TYPE
 APPLICABLE DOCUMENT: MS27982



STUD



EYELET

MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

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TABLE II. STUD AND EYELET CONFIGURATION DASH NUMBERS.

PART	MS27982 DASH NO.	
	BLACK	NICKEL PLATE
STUD	-4B	-4N
EYELET	-5B	-5N

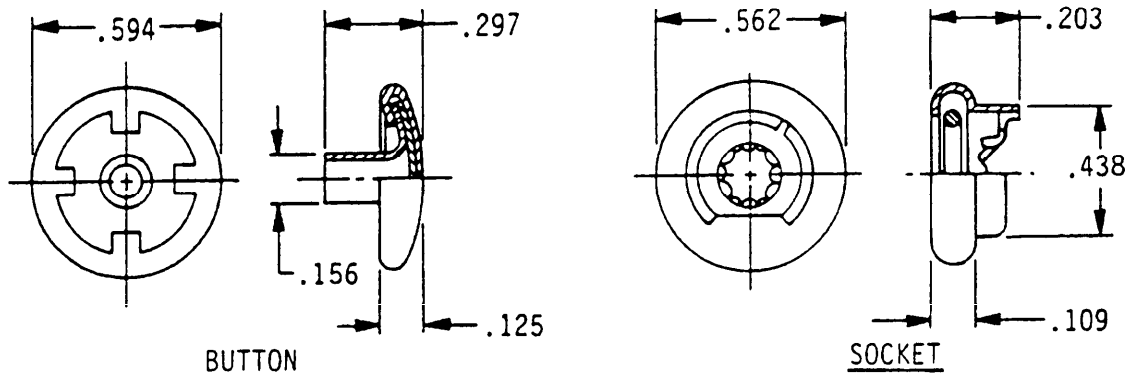
NOTE: STUD AND EYELET CONSTITUTE THE MALE HALF STYLE 3 FASTENER. (SEE PAGE 306.1 FOR THE FEMALE HALF.)

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SECTION 307

FASTENERS, SNAP, STYLE 4, THREE WAY LOCKING TYPE

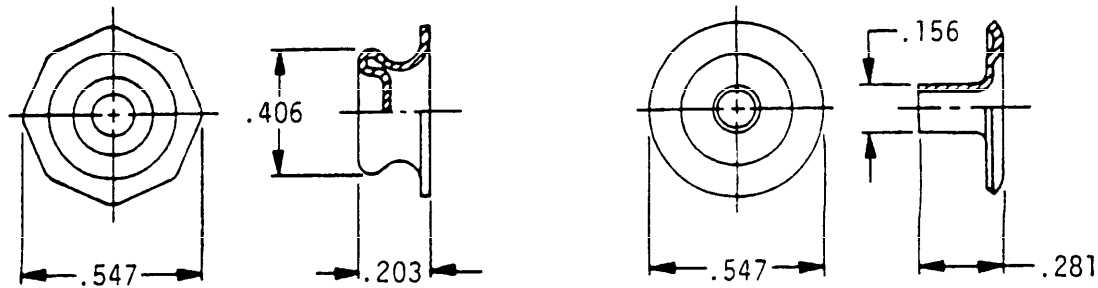
APPLICABLE DOCUMENT: MS27983



BUTTON

SOCKET

(OPERATES ON SINGLE POINT PULL PRINCIPLE)



STUD

EYELET

MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

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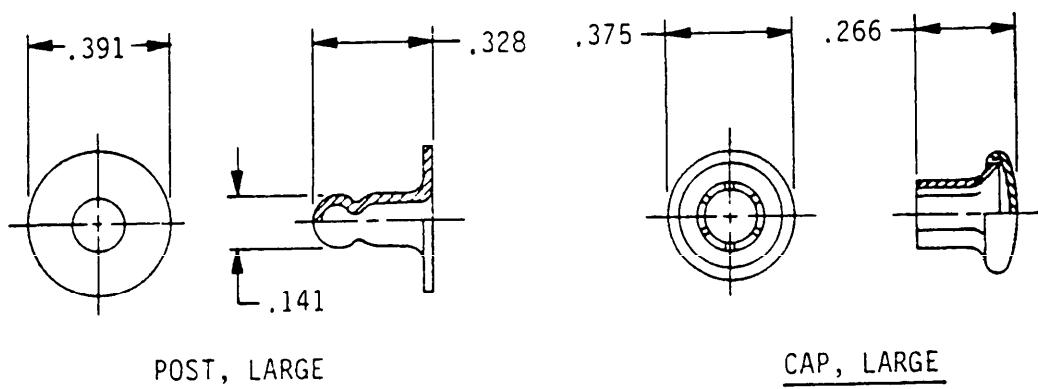
TABLE I. FASTENER CONFIGURATION DASH NUMBERS.

PART	MS27983 DASH NO.	
	BLACK	NICKEL PLATE
BUTTON	-1	-1N
SOCKET	-2	-2N
STUD	-3	-3N
EYELET	-4	-4N

- NOTES: 1. BUTTON AND SOCKET CONSTITUTE FEMALE HALF OF STYLE 4 FASTENER.
2. STUD AND EYELET CONSTITUTE MALE HALF OF STYLE 4 FASTENER.

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SECTION 308
FASTENERS, SNAP, STYLE 7, RIVET TYPE
APPLICABLE DOCUMENT: MS27986



MATERIAL	PROTECTIVE FINISH
BRASS	BLACK OR NICKEL PLATE

TABLE I. FASTENER CONFIGURATION DASH NUMBERS.

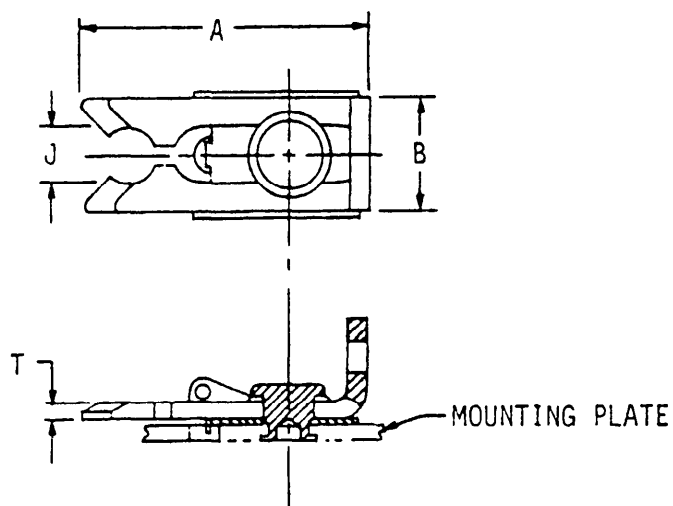
PART	MS27986 DASH NO.	
	BLACK	NICKEL PLATE
POST, LARGE	-3B	-3N
CAP, LARGE	-4B	-4N

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SECTION 401

FASTENER-SNAPSLIDE

APPLICABLE DOCUMENTS: MS21332 AND MS21327



MATERIAL	PROTECTIVE FINISH
LATCH: CRES	PASSIVATE
LATCH GUIDE: CRES	PASSIVATE
RIVET: NI-CU ALLOY	PASSIVATE
WASHER: PHOSPHOR BRONZE	NICKEL PLATE

TABLE I. FASTENER CONFIGURATION DASH NUMBERS.

A	B	J	T	MS21332 DASH NO.
1.125	.438	.187	.050	-4
1.469	.562	.250	.078	-1

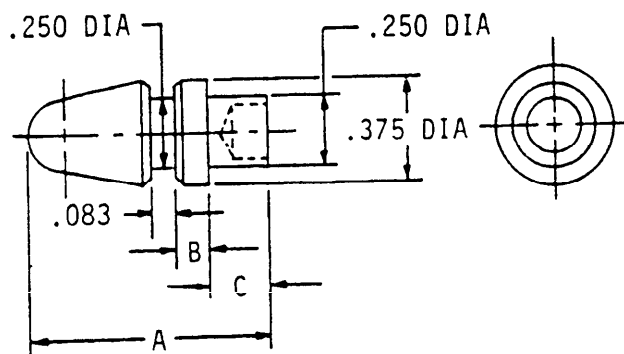
NOTE: TO BE USED WITH THE STUDS ON MS21323, MS21325 OR MS21326.
 (SEE SECTION 500.)

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SECTION 501

STUD, STYLE I, SNAPSLIDE FASTENER

APPLICABLE DOCUMENT: MS21323



MATERIAL	PROTECTIVE FINISH
CRES	PASSIVATE

TABLE I. STUD CONFIGURATION DASH NUMBERS.

A	B	C	MS21323 DASH NO.
.736	.080	.156	-1
.792	.105	.188	-2
.792	.250	.156	-3

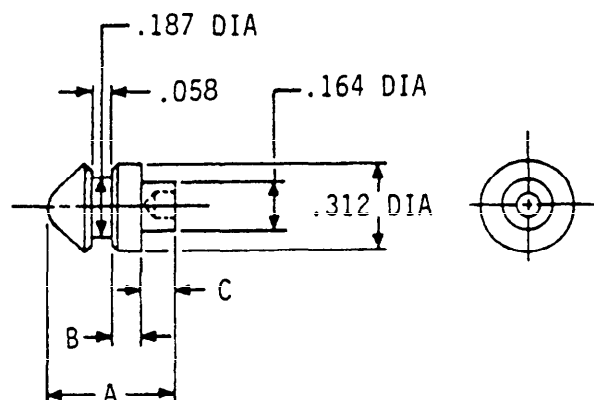
NOTE: TO BE USED WITH MS21332 (SEE 401.1).

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SECTION 502

STUD, STYLE III, SNAPSLIDE FASTENER

APPLICABLE DOCUMENT: MS21325



MATERIAL	PROTECTIVE FINISH
CRES	PASSIVATE

TABLE I. STUD CONFIGURATION DASH NUMBERS.

A	B	C	D	MS21325 DASH NO.
.406	.105	.109	.094	-1
.578	.075	.312	.094	-2
.453	.156	.125	.094	-3
.375	.062	.125	.094	-4
.359	.075	.094	.078	-5

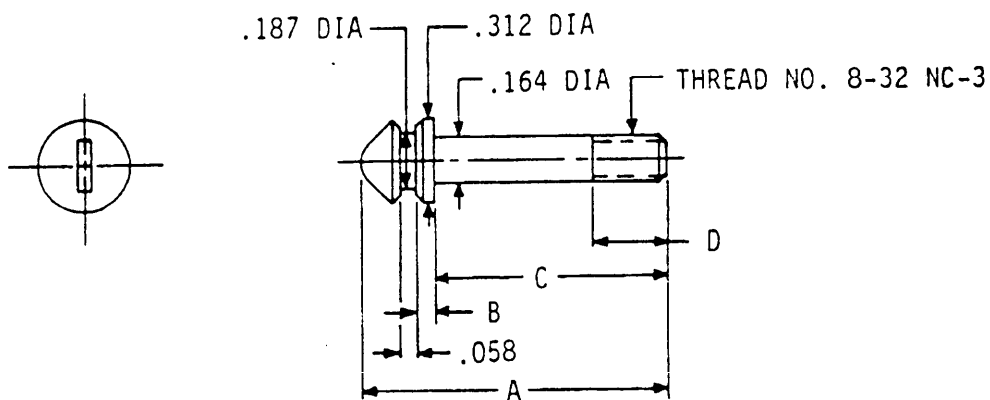
NOTE: TO BE USED WITH MS21332 (SEE 401.1).

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29 December 1971

SECTION 503

STUD, STYLE IV, SNAPSLIDE FASTENER

APPLICABLE DOCUMENT: MS21326



MATERIAL	PROTECTIVE FINISH
CRES	PASSIVATE

TABLE I. STUD CONFIGURATION DASH NUMBERS.

A	B	C	D	MS21326 DASH NO.
.641	.105	.344	.281	-1
.641	.077	.375	.312	-2
.797	.075	.531	.375	-3
.969	.091	.688	.375	-4
1.062	.055	.812	.500	-5
1.125	.105	.828	.500	-6

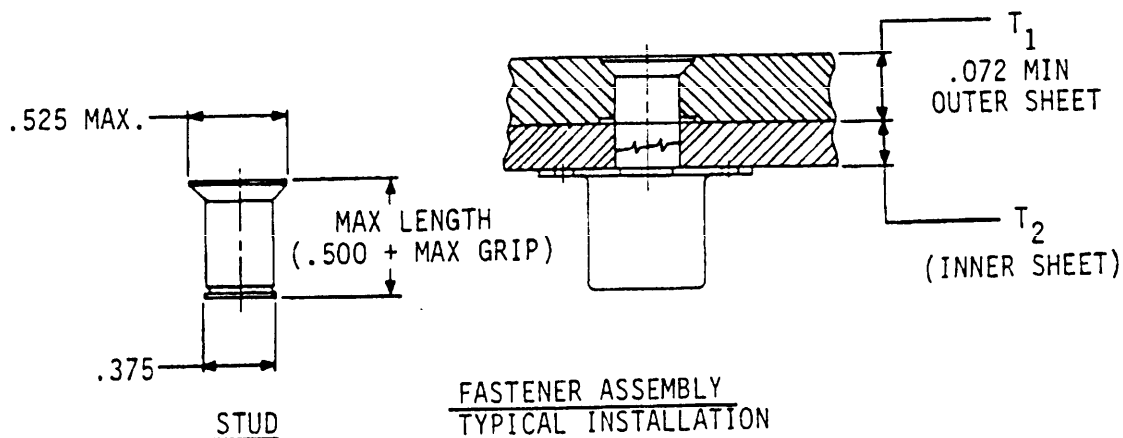
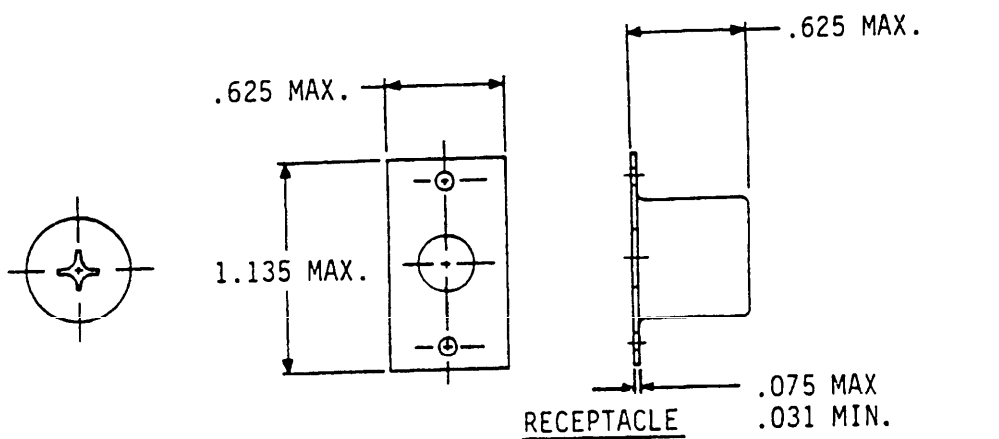
NOTE: TO BE USED WITH MS21322 (SEE 401.1).

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SECTION 601

FASTENER, ROTARY, QUICK-OPERATING, FLUSH HEAD
FLOATING TYPE, 2210 LBS. MINIMUM TENSILE STRENGTH

APPLICABLE DOCUMENT: MS17731



MATERIALS	TENSILE STRENGTH LBS. MIN.	PROTECTIVE FINISH	TEMP (MAX.)
STEEL CARBON & ALLOY	2210	CADMIUM PLATE	500°F

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TABLE I. FASTENER CONFIGURATION DASH NUMBERS.

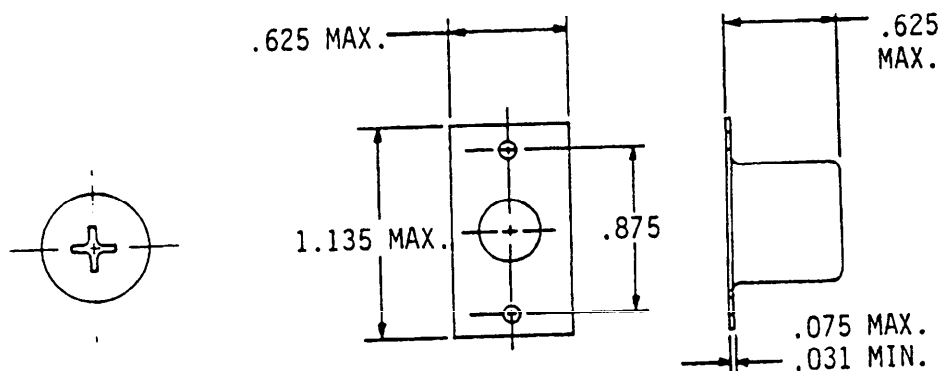
GRIP RANGE	WEIGHT - LBS MAXIMUM		MS17731 DASH NO.
	$T_1 + T_2$	STUD	
.150 - .220	.015	.025	-1
.221 - .290	.016		-2
.291 - .360	.018		-3
.361 - .430	.020		-4
.431 - .500	.021		-5
.501 - .570	.022		-6
.571 - .640	.024		-7
.641 - .710	.026		-8
.711 - .780	.028		-9

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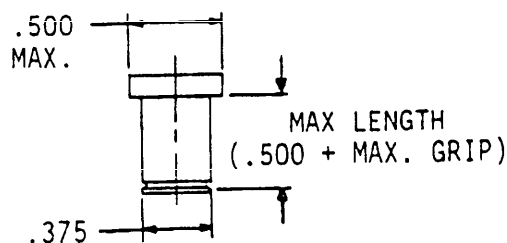
SECTION 602

**FASTENER, ROTARY, QUICK-OPERATING, PROTRUDING HEAD,
 FLOATING TYPE, 2210 LBS. MINIMUM TENSILE STRENGTH**

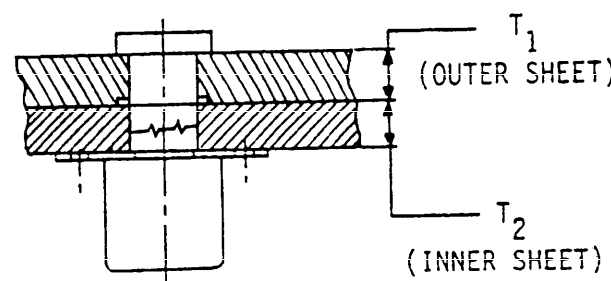
APPLICABLE DOCUMENT: MS17732



RECEPTACLE



STUD



FASTENER ASSEMBLY
TYPICAL INSTALLATION

MATERIALS	TENSILE STRENGTH LBS. MIN.	PROTECTIVE FINISH	TEMP (MAX.)
STEEL CARBON & ALLOY	2210	CADMIUM PLATE	500°F

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TABLE I. FASTENERS CONFIGURATION DASH NUMBERS.

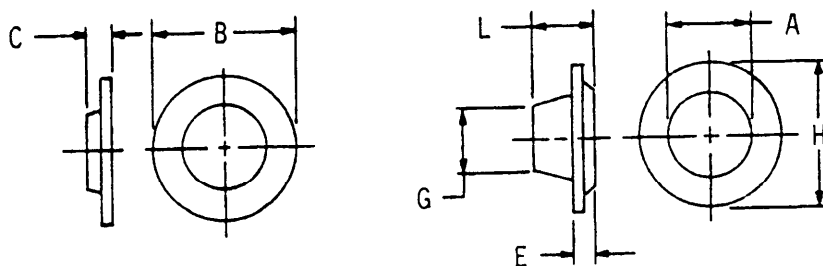
GRIP RANGE	WEIGHT - LBS MAXIMUM		MS17732 DASH NO.
	$T_1 + T_2$	STUD ASSY	
.116 - .185	.016	.025	-1
.186 - .255	.018		-2
.256 - .325	.020		-3
.326 - .395	.021		-4
.396 - .465	.023		-5
.466 - .535	.025		-6
.536 - .605	.027		-7
.606 - .675	.030		-8
.676 - .745	.033		-9

SECTION 701

GROMMETS, METALLIC, PLAIN AND SPUR, WITH WASHER
TYPE I AND TYPE III

APPLICABLE DOCUMENT: MS20230

TYPE I, PLAIN GROMMET

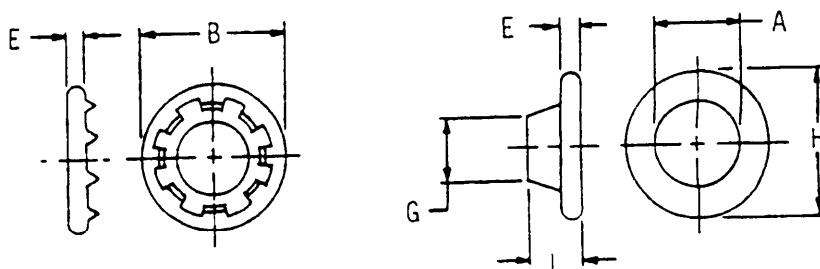


PLAIN WASHER

PLAIN GROMMET

MATERIAL	PROTECTIVE FINISH
BRASS	PLAIN OR CADMIUM PLATE
ALUMINUM	ANODIZE

TYPE III, SPUR GROMMET



SPUR WASHER

ROLLED RIM GROMMET

MATERIAL	PROTECTIVE FINISH
BRASS	PLAIN OR CADMIUM PLATE

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TABLE I. PLAIN GROMMET CONFIGURATION DASH NUMBERS.

A DIA AFTER INSERTION	B	C	E	G	H	L	MS20230 DASH NO.		
							AL	BRASS	
								PLAIN	PLATED
.156	.460	.029	.035	.176	.425	.170	A20	B20	BP20
.250	.546	.030	.035	.240	.545	.210	A10	B10	BP10
.312	.700	.041	.035	.286	.687	.220	A1	B1	BP1
.375	.835	.045	.035	.362	.815	.250	A2	B2	BP2
.438	.955	.050	.050	.433	.970	.345	A3	B3	BP3
.500	1.062	.050	.046	.486	1.050	.420	A4	B4	BP4
.625	1.205	.055	.045	.594	1.220	.375	A5	B5	BP5

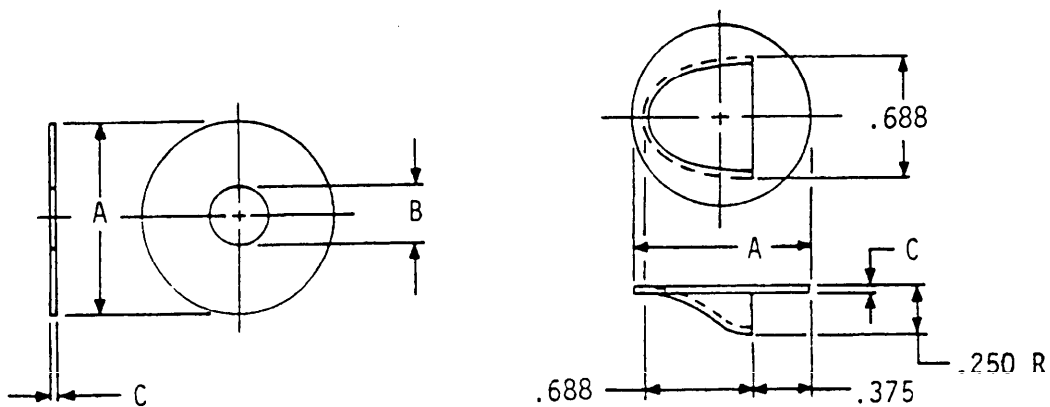
TABLE II. SPUR GROMMET CONFIGURATION DASH NUMBERS.

A DIA AFTER INSERTION	B	E	G	H	L	MS20230 DASH NO.	
						PLAIN	PLATED
.250	.645	.060	.270	.670	.235	BS10	BPS10
.312	.790	.065	.380	.790	.275	BS1	BPS1
.375	.890	.070	.425	.890	.315	BS2	BPS2
.438	.970	.075	.430	.970	.330	BS3	BPS3
.500	1.120	.080	.560	1.120	.405	BS4	BPS4
.625	1.270	.085	.600	1.285	.455	BSE	BPS5

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SECTION 801

GROMMET-DRAINAGE, PLASTIC
APPLICABLE DOCUMENT: AN231



DASH NOS.
1 AND 2

DASH NO. 4

MATERIAL	PROTECTIVE FINISH
CELLULOSE ACETATE BUTYRATE	NONE

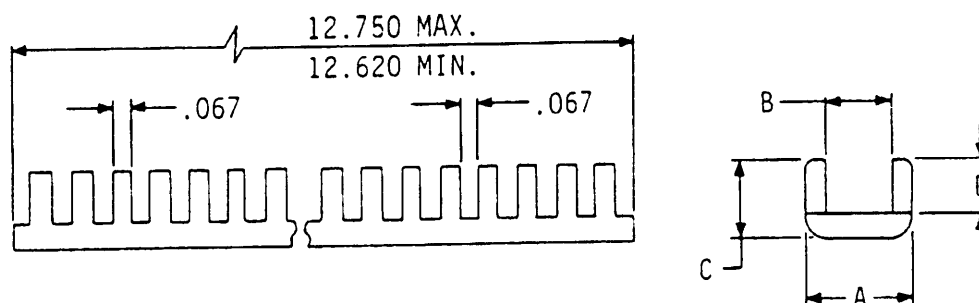
TABLE I. GROMMET CONFIGURATION DASH NUMBERS.

A	B	C	AN231 DASH NO.
1.250	.375	.0200	-1
.750	.312	.0200	-2
1.187	--	.0325	-4

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SECTION 802

GROMMET, PLASTIC, EDGING
APPLICABLE DOCUMENT: MS21266



MATERIAL	PROTECTIVE FINISH
NYLON	NONE
POLYTETRA-FLUOROETHYLENE	NONE

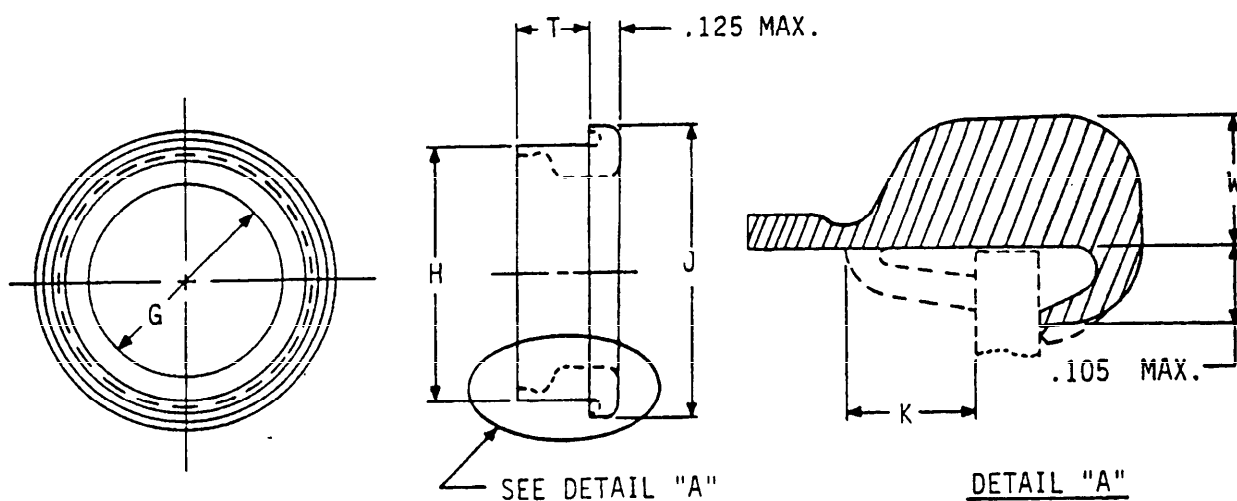
TABLE I. GROMMET CONFIGURATION DASH NUMBERS.

SHEET THICKNESS (REF)	A	B	C	D	MS21266 DASH NO.	
					NYLON	POLYTETRA-FLUOROETHYLENE
.015 - .052	.150	.056	.155	.100	-1N	-1T
.052 - .085	.175	.090	.155	.100	-2N	-2T
.085 - .128	.220	.131	.155	.100	-3N	-3T
.128 - .192	.325	.195	.230	.160	-4N	-4T
.192 - .255	.385	.260	.240	.170	-5N	-5T
.255 - .318	.445	.320	.255	.180	-6N	-6T

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SECTION 803

GROMMET-PLASTIC FLIP TYPE
APPLICABLE DOCUMENT: NAS1368



MATERIAL	PROTECTIVE FINISH
NYLON (SEE NOTE)	NONE

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TABLE I. GROMMET CONFIGURATION DASH NUMBERS.

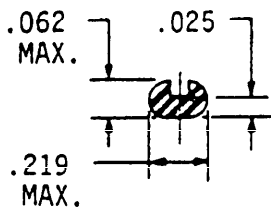
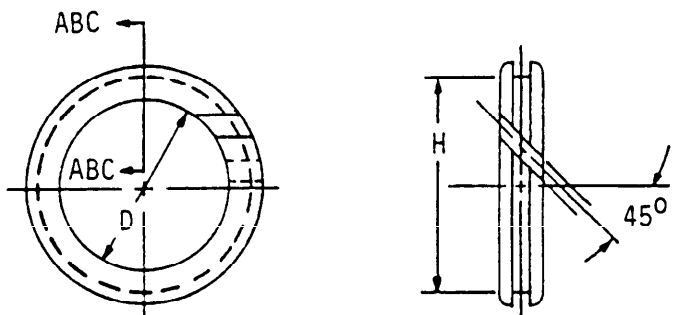
G	W	H	J	K APPROX	T	STRUCTURE THICKNESS	NAS1368 DASH NO.
.250	.058	.367	.567	.100	.235	.025 TO .080	N4A
					.295	.081 TO .140	N4B
					.360	.141 TO .200	N4C
					.420	.201 TO .250	N4D
.375	.058	.492	.692	.100	.235	.025 TO .080	N6A
					.295	.081 TO .140	N6B
					.360	.141 TO .200	N6C
					.420	.201 TO .250	N6D
.500	.058	.615	.815	.100	.235	.025 TO .080	N8A
					.295	.081 TO .140	N8B
					.360	.141 TO .200	N8C
					.420	.201 TO .250	N8D
.750	.083	.896	1.096	.100	.235	.025 TO .080	N12A
					.295	.081 TO .140	N12B
					.360	.141 TO .200	N12C
					.420	.201 TO .250	N12D
1.000	.104	1.178	1.378	.120	.275	.025 TO .080	N16A
					.335	.081 TO .140	N16B
					.400	.141 TO .200	N16C
					.460	.201 TO .250	N16D
1.500	.104	1.673	1.873	.120	.275	.025 TO .040	N24F
					.335	.041 TO .091	N24H
					.400	.092 TO .160	N24K
					.460	.161 TO .220	N24L
2.000	.104	2.173	2.373	.120	.275	.025 TO .040	N32F
					.335	.041 TO .091	N32H
					.400	.092 TO .160	N32K
					.460	.161 TO .220	N32L

NOTE: NYLON - TO BE USED WHERE TEMPERATURE DOES NOT EXCEED
-65° TO 300°F FOR 2,000 HOUR SERVICE LIFE
-65° TO 240°F FOR 12,000 HOUR SERVICE LIFE
-65° TO 200°F FOR 60,000 HOUR SERVICE LIFE

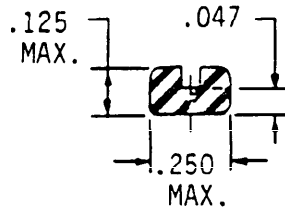
MIL-STD-1754
29 December 1978

SECTION 804

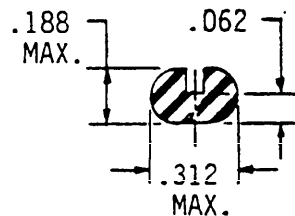
GROMMET, PLASTIC-SPLIT
APPLICABLE DOCUMENT: NAS557



SECTION A-A
DASH NOS.
3 THRU 6



SECTION B-B
DASH NOS.
8 THRU 20



SECTION C-C
DASH NOS.
22 THRU 48

MATERIAL	PROTECTIVE FINISH
NYLON	NONE

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29 Decambar 1978

TABLE I. GROMMET CONFIGURATION DASH NUMBERS.

SECTION	SHEET THICKNESS (REF)	D INSTALLED DIA	H	NAS557 DASH NO.
A-A	.025 - .051	.188	.241	-3
		.250	.303	-4
		.375	.429	-6
B-B	.064 - .081	.500	.601	-8
		.625	.726	-10
		.750	.851	-12
		.875	.976	-14
		1.000	1.101	-16
		1.125	1.226	-18
C-C	.091 - .125	1.250	1.351	-20
		1.375	1.507	-22
		1.500	1.632	-24
		1.750	1.882	-28
		2.000	2.132	-32
		2.250	2.382	-36
		2.500	2.632	-40
		2.750	2.882	-44
2.875	3.007	-46		
3.000	3.132	-48		

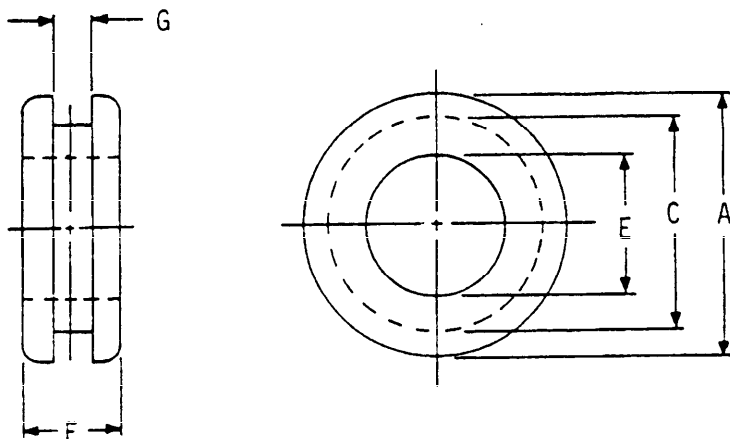
NOTE: TO BE USED WHERE TEMPERATURE DOES NOT EXCEED 350°F

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29 December 1978

SECTION 901

GROMMETS, SYNTHETIC AND SILICONE RUBBER, HOT OIL AND COOLANT RESISTANT

APPLICABLE DOCUMENT: MS35489



MATERIAL	PROTECTIVE FINISH
RUBBER, SYNTHETIC	NONE
RUBBER, SILICONE	NONE

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TABLE I. GROMMET CONFIGURATION DASH NUMBERS.

E	C	A	G							
			0.062		0.125		0.188		0.250	
			MS35489 DASH NO.	F	MS35489 DASH NO.	F	MS35489 DASH NO.	F	MS35489 DASH NO.	F
0.125	0.250	0.344	1	0.188						
0.125	0.562	0.750	2	0.188	31	0.250	60	0.312	89	0.375
0.125	1.000	1.250	3	0.250	32	0.312	61	0.375	90	0.438
0.188	0.312	0.438	4	0.188	33	0.250	62	0.312	91	0.375
0.188	0.562	0.750	134	0.188	137	0.250	138	0.312	139	0.375
0.188	0.625	0.875	5	0.188	34	0.250	63	0.312	92	0.375
0.250	0.438	0.625	6	0.188	35	0.250	64	0.312	93	0.375
0.250	0.750	1.000	7	0.250	36	0.312	65	0.375	94	0.438
0.250	1.000	1.250	8	0.250	37	0.312	66	0.375	95	0.438
0.312	0.562	0.812	9	0.312	38	0.375	67	0.438	96	0.500
0.312	0.750	1.000	10	0.312	39	0.375	68	0.438	97	0.500
0.312	0.812	1.062	118	0.312	122	0.375	136	0.438	130	0.500
0.375	0.625	0.875	11	0.312	40	0.375	69	0.438	98	0.500
0.375	1.000	1.250	12	0.250	41	0.312	70	0.375	99	0.438
0.438	0.688	0.938	13	0.312	42	0.375	71	0.438	100	0.500
0.500	0.812	1.062	14	0.312	43	0.375	72	0.438	101	0.500
0.500	1.250	1.500	15	0.250	44	0.312	73	0.375	102	0.438
0.562	0.812	1.062	16	0.312	45	0.375	74	0.438	103	0.500
0.625	0.875	1.125	17	0.312	46	0.375	75	0.438	104	0.500
0.625	1.250	1.500	18	0.250	47	0.312	76	0.375	105	0.438
0.688	1.000	1.312	19	0.375	48	0.438	77	0.500	106	0.562
0.750	1.062	1.375	20	0.375	49	0.438	78	0.500	107	0.562
0.750	1.250	1.625	135	0.250	123	0.312	127	0.375	131	0.438
0.750	1.438	1.812	21	0.375	50	0.438	79	0.500	108	0.562
0.750	1.625	2.000	120	0.375	124	0.438	128	0.500	132	0.562
0.875	1.250	1.625	22	0.438	51	0.500	80	0.562	109	0.625
0.875	1.625	2.000	121	0.438	125	0.500	129	0.562	133	0.625
1.000	1.375	1.750	23	0.438	52	0.500	81	0.562	110	0.625
1.000	1.875	2.250	24	0.438	53	0.500	82	0.562	111	0.625
1.250	2.375	2.750	25	0.438	54	0.500	83	0.562	112	0.625
1.250	2.500	2.975	26	0.438	55	0.500	84	0.562	113	0.625
1.500	1.750	2.125	27	0.438	56	0.500	85	0.562	114	0.625
1.500	2.750	3.250	28	0.438	57	0.500	86	0.562	115	0.625
1.750	3.250	3.750	29	0.500	58	0.562	87	0.625	116	0.688
2.000	3.500	4.000	30	0.500	59	0.562	88	0.625	117	0.688

NOTE: ADD "X" AFTER DASH NUMBER FOR SILICONE RUBBER GROMMET.

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

1. DOCUMENT NUMBER		2. DOCUMENT TITLE	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one)	
b. ADDRESS (Street, City, State, ZIP Code)		<input type="checkbox"/> VENDOR <input type="checkbox"/> USER <input type="checkbox"/> MANUFACTURER <input type="checkbox"/> OTHER (Specify): _____	
5. PROBLEM AREAS			
a. Paragraph Number and Wording:			
b. Recommended Wording:			
c. Reason/Rationale for Recommendation:			
6. REMARKS			
7a. NAME OF SUBMITTER (Last, First, MI) - Optional		7b. WORK TELEPHONE NUMBER (Include Area Code) - Optional	
c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional		8. DATE OF SUBMISSION (YYMMDD)	

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