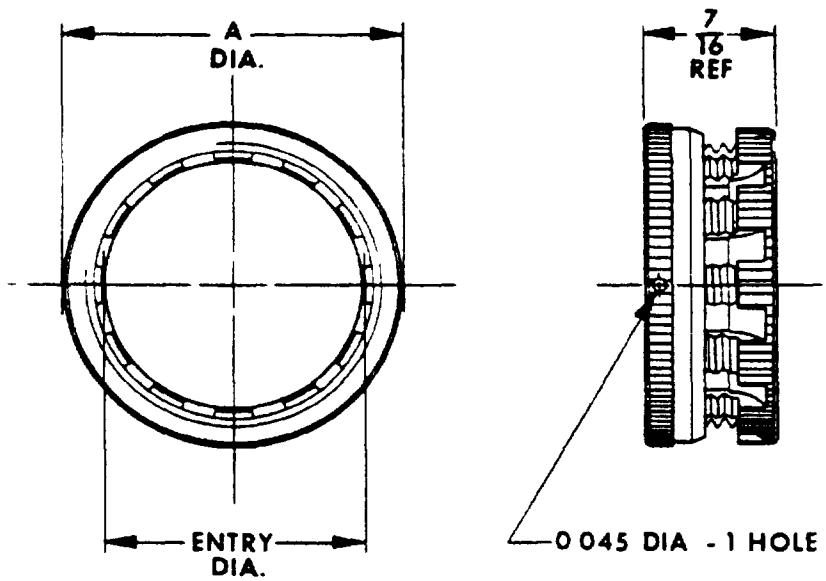
PROJ NO 5935-F674

FED SUP CLASS 5935



DIMENSIONS EXPRESSED IN INCHES

DASH NO	ENTRY DIA	A DIA MAX	NO OF SLOTS	WEIGHT IN LBS
2	0 250	0 545	3	0 005
3	0 375	0 670	4	0 006
4	0 500	0 795	6	0 007
5	0 625	0 920	8	0 009
6	0 750	1 045	10	0. 010
7	0 875	1 170	10	0 011
8	1 000	1 295	12	0 012
9	1 125	1 420	15	0 014
10	1 250	1 687	15	0 023
11	1 375	1 812	15	0 032

DIMENSIONS EXPRESSED IN MILLIMETERS

DASH NO	ENTRY DIA	A DIA MAX	NO OF SLOTS	WEIGHT IN GRAMS
2	6 350	13 843	3	2 268
3	9 525	17 018	4	2 722
4	12 700	20 193	6	3 175
5	15 875	23 368	8	4 082
6	19 050	26 543	10	4 536
7	22 225	29 718	10	4 990
8	25 400	32 893	12	5 443
9	28 575	36 068	15	6 350
10	31 750	42 850	15	10 433
11	34 925	46 025	15	14 515

1 Material Body - Aluminum alloy QQ-A-225/6 8 or 10 Nut - Aluminum alloy QQ-A-225 6 8 or 10 Spring - Copper alloy Friction washer - Teflon

2 Finish Body - Gold iridite per MIL-C-5541 Nut - Gold iridite per MIL-C-5541

3 Dimensions in inches unless otherwise specified, tolerances shall be 0 XX ± 0 03 and 0 XXX ± 0 015, angular tolerances X° ± 2° Metric equivalents (to the nearest 0 001 mm) are given for general information only and are based upon 1 inch equals 25 4 mm

4 Shield compensation captivated spring member in clamp nut compensates for differences in shield thickness of at least 0 020 inch between adjacent slots in body

5 Shield accommodation each slot in body will accommodate up to 0 180 inch total shield thickness

6 Ground-lead pull-out retention of ground leads meets requirements of MIL-F-21608

7 Items described in this drawing are covered by U S Patent No 3,465,092

8 Illustrations copyrighted by Glenair, Inc 1968

9 Example of part number MS 27741 -6

MS Number — Dash Number

APPROVED 17 February 1971 REVISED

P A AIR FORCE 80 Other Cust	CONNECTOR, ELECTRICAL, INDIVIDUAL SHIELD TERMINATION	MILITARY STANDARD MS27741 (USAF)
PROCUREMENT SPECIFICATION NONE	SUPERSEDES	SHEET 1 OF 2

DD FORM 1 SEP 67 672-1

FED SUP CLASS
5935

ASSEMBLY INSTRUCTIONS

The following instructions are suggested assembly procedures only Actual termination and assembly method will depend on the accepted techniques of the user The TAG Ring requires no special assembly tools and can be assembled by hand However, the user may find it preferable to use soft jaw pliers for final tightening of the TAG Rings
In all cases, a self pigtailing technique for the individual shields is used, with the point at which the conductors are extracted through the shields to be determined by the particular connector involved For solder contact connectors the length of the extracted conductor will be shorter than for crimp contact connectors It is suggested that all shield pigtails be flattened before installing the TAG Ring

TAG Ring

(a) Place TAG Ring on wire bundle or cable with castellated (slotted) face of body toward termination end of cable (Fig 1)

Fig. 1

(b) If shielded conductors have an outer jacket, strip jacket to desired length Extract conductors through shields at location desired for installation of TAG Ring Flatten shield pigtails

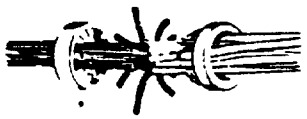


Fig 2

(c) With shields held against wire bundle separate clamp nut from body Flare shields outward, perpendicular to wire bundle, as shown in Fig 2

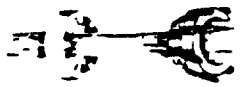


Fig 3

d) Place shields in slots of body making sure shields are distributed as uniformly as possible among the slots (spring member in clamp nut will compensate for differences in shield thickness of at least .020 inch between adjacent slots) (Fig 3) If desired shields can be doubled to achieve more uniform thickness between adjacent slots

Fig. 4

(e) Install ground lead in two slots of body, by looping around a body tab as shown in Fig 4 Connect ground lead to selected termination point

Fig. 5

(f) Fold shields over knurled surface of body and engage clamp nut aligning tabs of clamp nut spring with slots in body Tighten securely as shown in Fig 5 Hand tightening can be used but if preferred, soft jaw pliers can be used for final tightening

Fig. 6

(g) Trim excess shields to desired length (Fig 6) either flush with surface of TAG Ring or to any length desired For future repairability it is suggested at least ½ inch shield lengths be retained

Fig 7

(h) If desired, safety wire can be installed through hole provided in clamp nut. Simply loop wire through hole and tighten as shown in Fig 7 With safety wire installed between two body tabs it works similar to a cotterpin to prevent accidental loosening

Fig 8

(i) If desired, TAG Ring can be insulated by installing heat shrinkable sleeving over completed assembly Fig 8

This standard has been approved by the AFLC 1801 Department of the Air Force and is mandatory for use by that activity All other military activities are required to employ this standard where suitable

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PA AIR FORCE 80
Other Cust

CONNECTOR, ELECTRICAL, INDIVIDUAL SHIELD TERMINATION

MILITARY STANDARD
MS27741(USAF)

PROCUREMENT SPECIFICATION
NONE

SUPERSEDES

SHEET 2

DD FORM SEP 67 672-1

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE