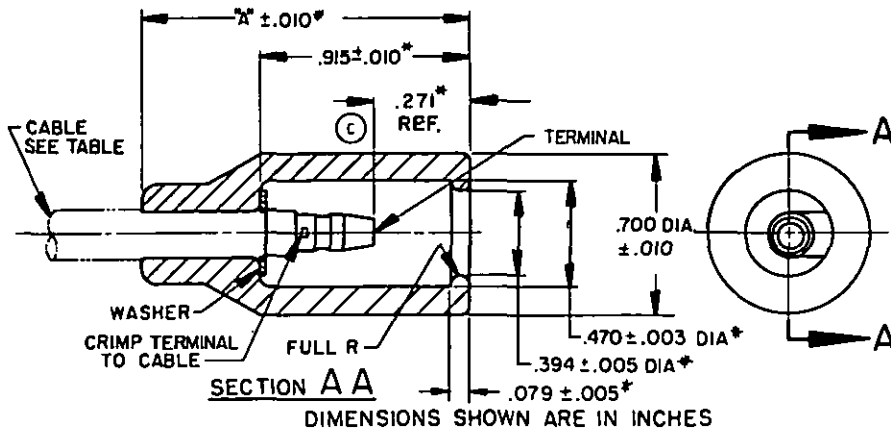
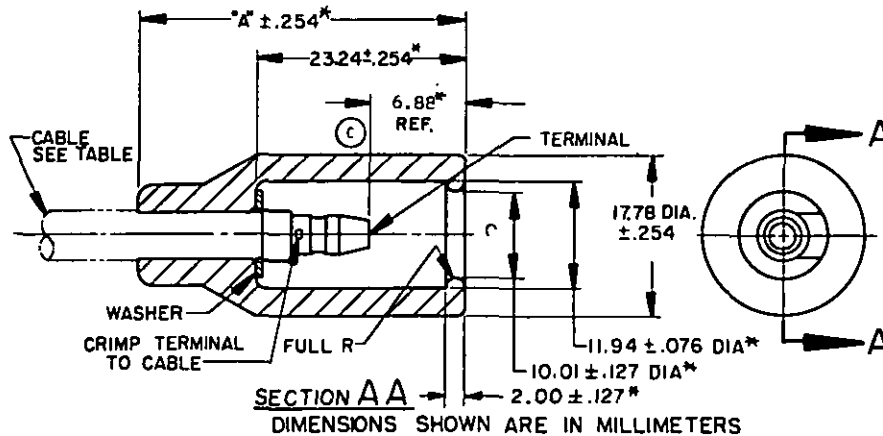


FED SUP CLASS
5935



MS DASH NO.	REFERENCE DRAWING NO. (ASSEMBLY)	SIZE	SHELL NUMBER	WASHER NUMBER	TERMINAL NUMBER	A	CABLE DIAMETER	AWG SIZE	CABLE MIL-C-13486 PART NUMBER
-1	8338571	1	8338572	8338573	MS-27148-1	1.421	.235±.010	12	M-13486/1-7
-2	8338565	2	8338566	8338567	MS-27148-2	1.328	.160±.010	14	M-13486/1-5
-3	NONE	3	8724495	8724497	MS-27148-3	1.328	.135±.015	16	M-13486/1-3

REVIEW ACTIVITIES: DSA-ES; AIR FORCE-80
USER ACTIVITIES: ARMY-EL. ME; NAVY-MC



MS DASH NO.	REFERENCE DRAWING NO. (ASSEMBLY)	SIZE	SHELL NUMBER	WASHER NUMBER	TERMINAL NUMBER	A	CABLE DIAMETER	AWG SIZE	CABLE MIL-C-13486 PART NUMBER
-1	8338571	1	8338572	8338573	MS-27148-1	36.09	5.96±.254	12	M-13486/1-7
-2	8338565	2	8338566	8338567	MS-27148-2	33.73	4.06±.254	14	M-13486/1-5
-3	NONE	3	8724495	8724497	MS-27148-3	33.73	3.43±.381	16	M-13486/1-3

This military standard is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

Ⓢ DENOTES CHANGES

P.A. ARMY-AT Other Cust	INTERNATIONAL INTEREST STANAG 4040	TITLE CONNECTOR, PLUG, ELECTRICAL-PIN CONTACT NO. 12, 14 & 16 A.W.G., WATERPROOF	MILITARY STANDARD
AF-80	PROCUREMENT SPECIFICATION NONE	SUPERSEDES:	MS 27142
			SHEET 1 OF 2

APPROVED 11 MAY 1961 REVISED 1 SEPTEMBER 1967 22 JUNE 1973 23 OCT 84

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NOTES:

1. MATERIAL:
WASHER: BRASS ALLOY NO.268, NO.240 OR NO.260, TEMPER, 1/2 HARD PER QQ-B-613 OR QQ-B-626.
SHELL: RUBBER-GRADE SC 615 A C E F, MIL-STD-417.
1 1 3 2
2. SIZE 1 MATES WITH CONNECTOR MS 27143. SIZE 2 MATES WITH CONNECTOR MS 27144, STYLE 1, SIZE 1. SIZE 3 MATES WITH CONNECTOR MS 27144, STYLE 1, SIZE 2.
3. ELECTRICAL REQUIREMENTS:
 - A. VOLTAGE RATING: 30 VOLTS DC
 - B. CURRENT RATING: AWG SIZE CURRENT (AMPS)

16	13
14	17
12	23
 - C. VOLTAGE DROP: WHEN CONNECTORS ARE COUPLED, VOLTAGE DROP SHALL NOT EXCEED 20 MILLIVOLTS AND SHALL MEET THE REQUIREMENTS OUTLINED IN MIL-STD-202, METHOD 307.
 - D. DIELECTRIC STRENGTH: WHEN CONNECTORS ARE COUPLED, THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF DIELECTRIC STRENGTH TEST (1000 VOLTS) OUTLINED IN MIL-STD-202 METHOD 302.
4. WHEN CONNECTORS ARE COUPLED, THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF WATERPROOFNESS TEST OUTLINED IN MIL-STD-1184.
5. WHEN CONNECTORS ARE COUPLED, THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF SALT SPRAY CORROSION TEST OUTLINED IN MIL-STD-202, METHOD 101 (5% SALINE, SOLUTION, 200 HRS DURATION), TERMINAL TO BE CRIMPED TO CABLE AND SHALL WITHSTAND A PULL TEST OF 40 POUNDS (18 KILOGRAMS) ON SIZE 3, 60 POUNDS (27 KILOGRAMS) ON SIZE 2, 90 POUNDS (40 KILOGRAMS) ON SIZE 1.
7. FORCE REQUIRED TO UNCOUPLE CONNECTORS SHALL NOT EXCEED 50% OF VALUES EXPRESSED IN NOTE 6 WHEN AT EITHER TEMPERATURE EXTREME OF TABLE D, MIL-STD-202, METHOD 102.
8. REFERENCED DRAWINGS MAY BE OBTAINED FROM U. S. ARMY TANK AUTOMOTIVE COMMAND, WARREN, MICHIGAN 48090.

CERTAIN PROVISIONS OF THIS STANDARD (IDENTIFIED BY *) ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT NATO-STANAG 4040. WHEN REVISION OR CANCELLATION OF THIS STANDARD IS PROPOSED WHICH WILL EFFECT OR VIOLATE THE INTERNATIONAL AGREEMENT CONCERNED, THE PREPARING ACTIVITY WILL TAKE APPROPRIATE RECONCILIATION ACTION THROUGH INTERNATIONAL STANDARDIZATION CHANNELS, INCLUDING DEPARTMENTAL STANDARDIZATION OFFICES, IF REQUIRED.

APPROVED 11 MAY 1961 REVISED (C) FOR CHANGES SEE SHEET 1

P. A. ARMY-AT Other Cust NAVY-YD AF-80	INTERNATIONAL INTEREST	TITLE CONNECTOR, PLUG, ELECTRICAL - PIN CONTACT NO. 12, 14 & 16 A.W.G., WATERPROOF	MILITARY STANDARD
	STANAG 4040		MS27142
PROCUREMENT SPECIFICATION NONE		SUPERSEDES:	SHEET 2 OF 2