

PERFORMANCE SPECIFICATION

CONNECTORS, PLUG, ELECTRICAL, COAXIAL, RADIO FREQUENCY,
SERIES SMA (CABLED, PIN RIGHT ANGLE, CLASS 2, SEMIRIGID CABLE)

This amendment forms a part of MIL-PRF-39012/80E, dated 24 January 1992, and is approved for use by all Departments and Agencies of the Department of Defense.

The attached insertable replacement pages listed below are replacements for stipulated pages. When the new pages have been entered in the document, insert the amendment as the cover sheet to the specification. Changes to the text have been marked with an asterisk.

<u>Replacement page</u>	<u>Page replaced</u>
3	Reprinted without change
4	4

PAGE 10

Table V, note 3/: Delete and substitute:

3/ All corrosion-resistant steel-bodied connectors which are designed to be assembled to the outer conductor using solder shall be gold-plated in accordance with ASTM B488, type 3, grade C, class 1.27, at least in the area of solder attachment."

NOTE: The margin of this amendment is marked with an asterisk to indicate where changes from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC
(Project 5935-4521-002)

Review activities:
Army - AM, AT, MI
Navy - AS, MC, OS, SH
Air Force - 19, 99

TABLE I. Dash number and applicable cable – Continued.

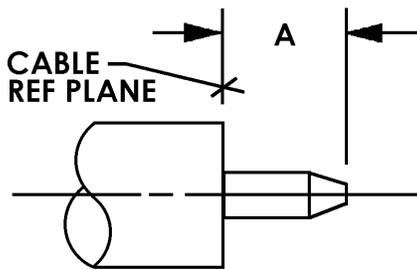
Dash number M39012/80	Applicable cable 1/	Tool no.	Positioning dies	Locator pins 11/	Crimp dies M22520/5	Dimensions						E	F
						A	B	C 12/		D 12/			
								Before	After	Before	After		
CATEGORY F – FIELD REPLACEABLE 2/ 3/ 4/ (MIL-C-22520 CRIMP TOOL)													
3207 13/ 3307 4/ 13/ 4207 13/ 4307 4/ 13/	M17/133-RG405* M17/133-00001 through M17/133-00011	M22520/36-01	M22520/36-15	M22520/36-15 or M22520/36-21	---	.738 (18.74 mm) maximum	.575 (14.60 mm) maximum	.585 (14.86 mm) maximum	.508 (12.90 mm) maximum	.765 (19.43 mm) maximum	.688 (17.48 mm) maximum	N/A 9/	
3208 13/ 3308 4/ 13/ 4208 13/ 4308 4/ 13/	M17/130-RG402* M17/130-00001 through M17/130-00007		M22520/36-15										
3210 3310 4/ 4210 4310 4/	M17/130-RG402* M17/130-00001 through M17/130-00007	M22520/5-01	---	---	-05 or -41 cavity 8	.667 (16.94 mm) maximum	.526 (13.36 mm) maximum	.369 (9.37 mm) maximum	.369 (9.37 mm) maximum	.550 (13.97 mm) maximum	.550 (13.97 mm) maximum		
3211 10/ 13/ 3311 4/ 10/ 13/ 4211 10/ 13/ 4311 4/ 10/ 13/	M17/133-RG405* M17/133-00001 through M17/133-00011	M22520/36-01	M22520/36-15	M22520/36-15 or M22520/36-21	---	.695 (17.65 mm) maximum	.555 (14.10 mm) maximum	.466 (11.84 mm) maximum	.322 (8.18 mm) maximum	.666 (16.92 mm) maximum	.522 (13.26 mm) maximum	To be determined	
3212 10/ 13/ 3312 4/ 10/ 13/ 4212 10/ 13/ 4312 4/ 10/ 13/	M17/130-RG402* M17/130-00001 through M17/130-00007		M22520/36-15										
3213 3313 4/ 4213 4313 4/	M17/133-RG405* M17/133-00001 through M17/133-00011	M22520/5-01	---	---	-05 or -41 cavity 8	.667 (16.94 mm) maximum	.526 (13.36 mm) maximum	.323 (8.20 mm) maximum	.323 (8.20 mm) maximum	.504 (12.80 mm) maximum	.504 (12.80 mm) maximum	N/A	

See footnotes at end of table.

MIL-PRF-39012/80E
AMENDMENT 2

TABLE I. Dash number and applicable cable – Continued.

- * Cable to be used when performing tests requiring cable.
- 1/ The RG cables are specified with the basic number. The latest version of each cable shall be applicable.
- 2/ These connectors have captivated center contacts.
- 3/ Coupling nuts shall be corrosion-resistant steel with a passivated finish in accordance with MIL-F-14072. (Applies to “-3XXX” series connectors only).
- 4/ No safety wire holes.
- 5/ Kit number - Omni Spectra T-200, Amphenol 901-2500, or equivalent.
- 6/ For logistics purposes, only connectors with safety wire holes will be stocked.
- * 7/ All corrosion-resistant steel-bodied connectors shall be gold plated in accordance with ASTM B488, type 3 grade C, class 1.27, at least in the area of solder attachment.
- 8/ Inactive for new design. Not for Air Force or Navy use.
- 9/ This dimension is furnished in manufacturers’ assembly instructions.
- 10/ Gasket material shall be in accordance with MIL-R-83248.
- 11/ The locators required shall be indicated in the assembly instructions.
- 12/ The C and D dimensions before crimping determines the closeness of a bend in the cable to the rear of the connector.
- 13/ Not for Army use. For OEM use only.



Cable	Dimension A	
	Min	Max
M17/130-RG402 M17/130-00001 through M17/130-00007	.080 (2.03 mm)	.090 (2.29 mm)
M17/133-RG405 M17/133-00001 through M17/133-00011	.065 (1.65 mm)	.075 (1.91 mm)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Tapering of center conductor is optional.
4. All undimensioned pictorial configurations are for references purposes only.

FIGURE 2. Cable stripping dimensions for category E and category F connectors.