

INCH-POUND

MS3475F

4 June 2009

SUPERSEDING

MS3475E

1 March 2007

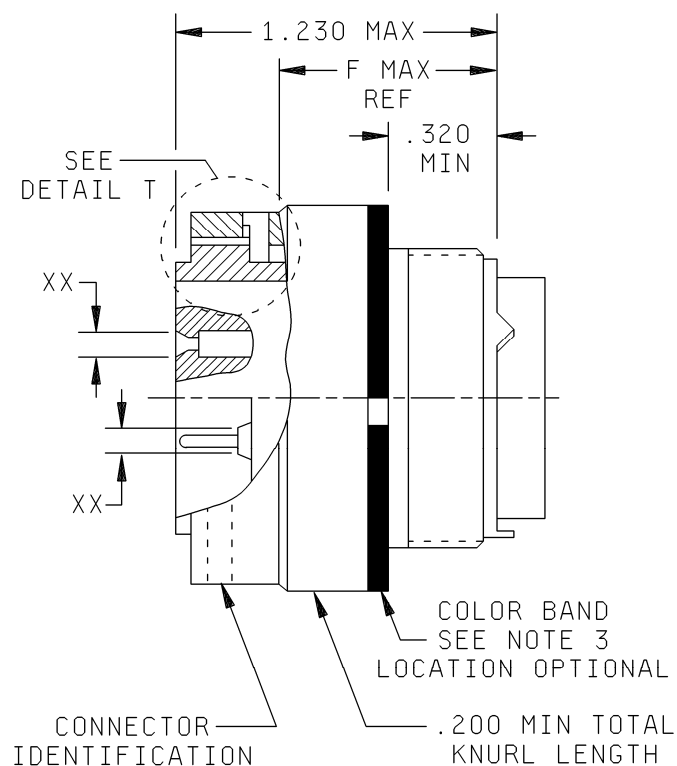
## DETAIL SPECIFICATION SHEET

CONNECTORS, PLUG, ELECTRICAL, RFI SHIELDED, SERIES 2,  
CRIMP TYPE, BAYONET COUPLING, CLASSES D, L, T, W AND Z

Reactivated after 1 March 2007, and may be used  
for new and existing designs and acquisitions.

This specification is approved for use by all Departments  
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein  
shall consist of this specification sheet and MIL-DTL-26482.



NOTE: For "XX", see note 5 and table I for contact cavities requiring reduced dimensions.

FIGURE 1. Plug, dimensions.

AMSC N/A

FSC 5935

MS3475F

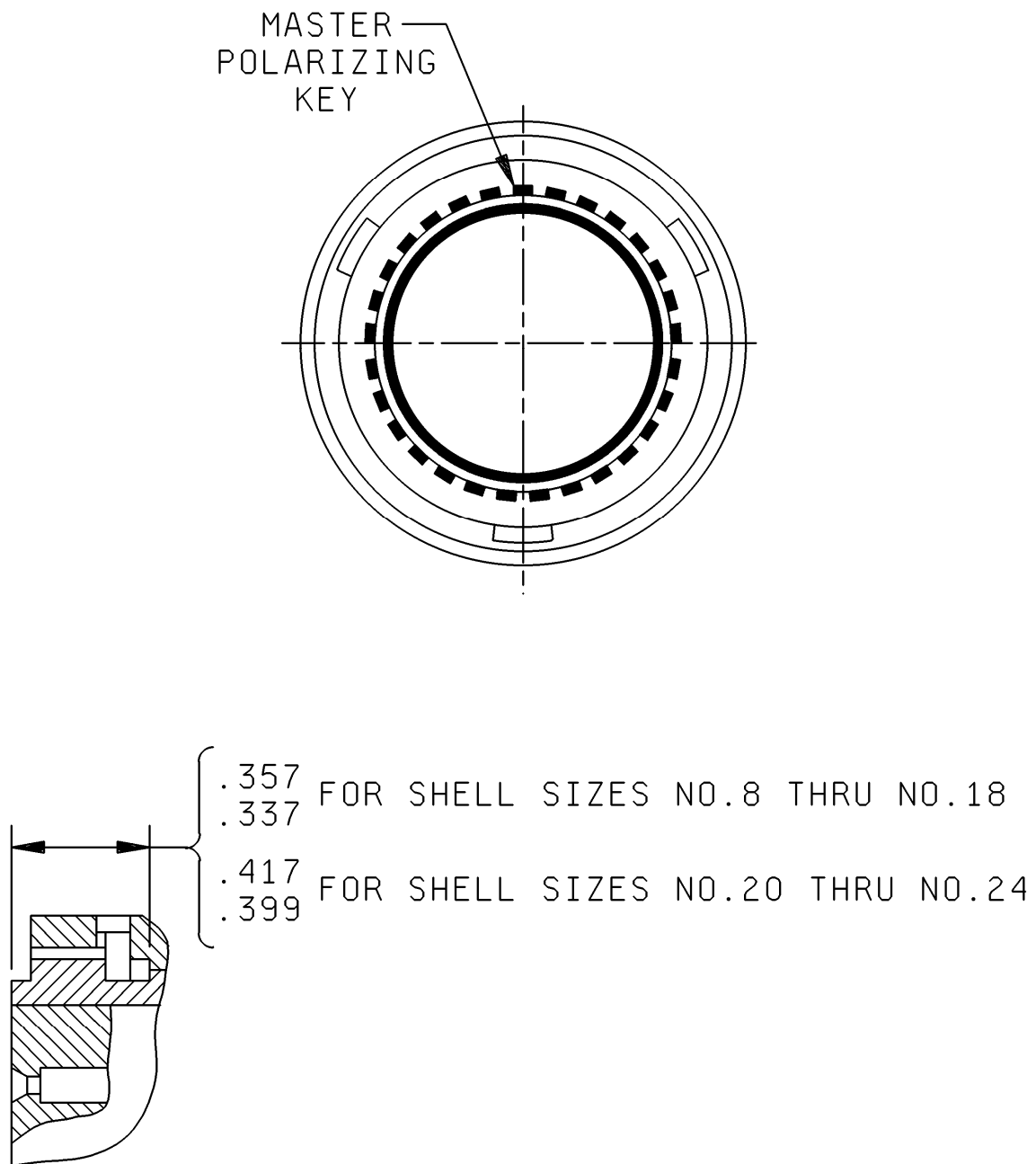


FIGURE 1. Plug dimensions - Continued.

MS3475F

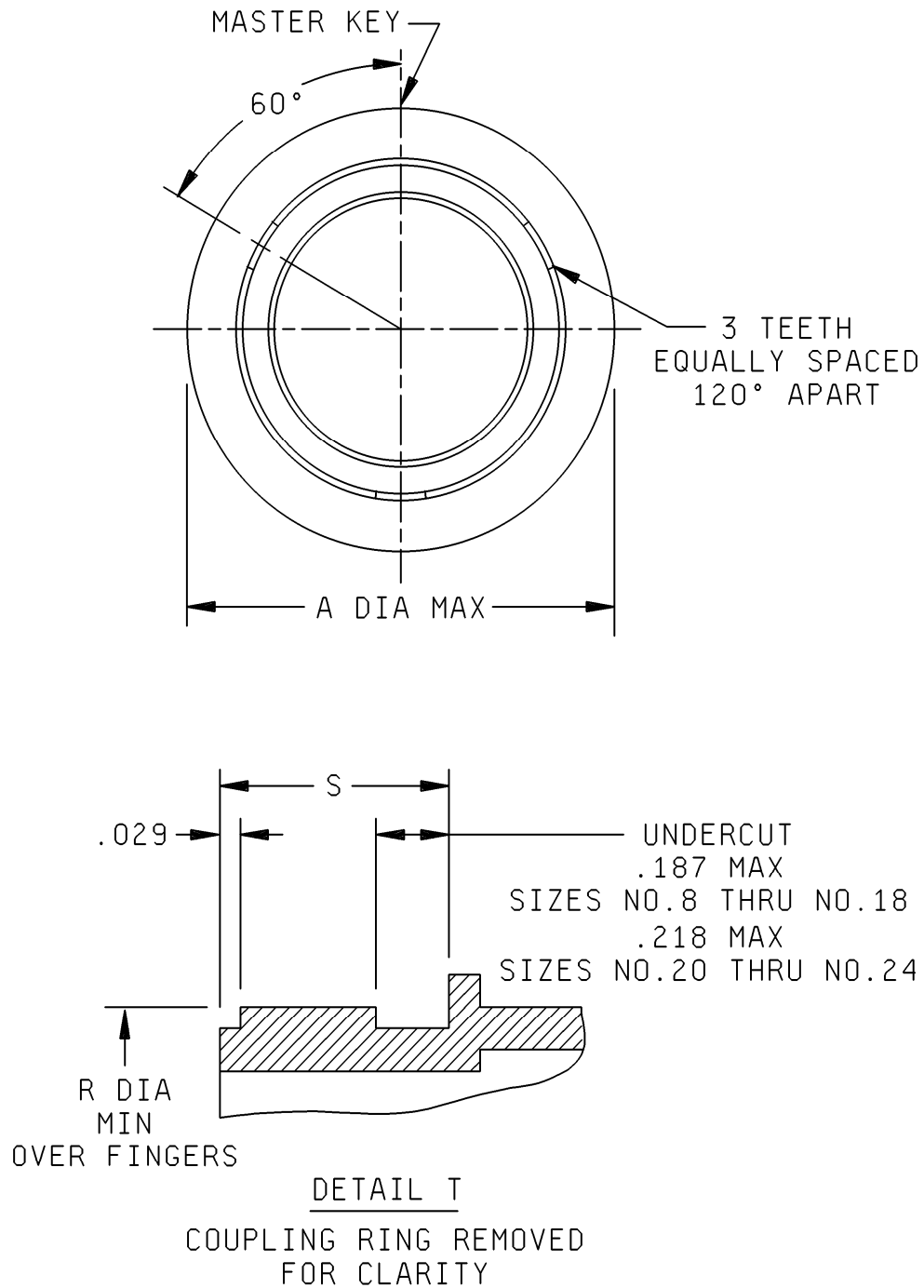


FIGURE 1. Plug dimensions - Continued.

MS3475F

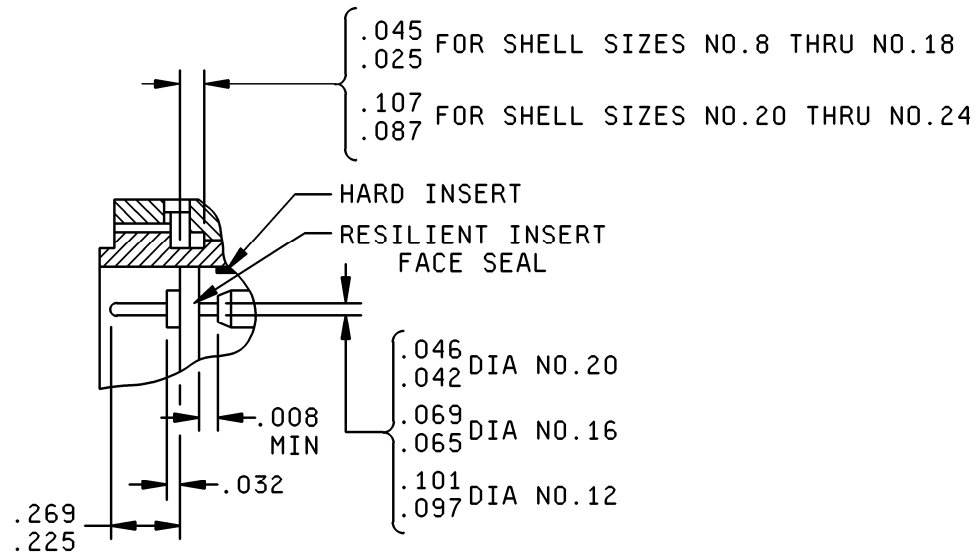
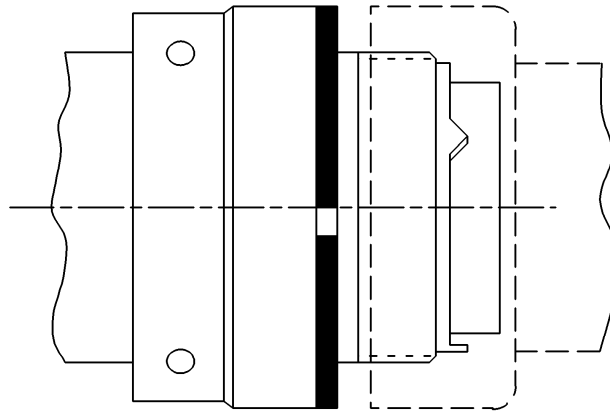
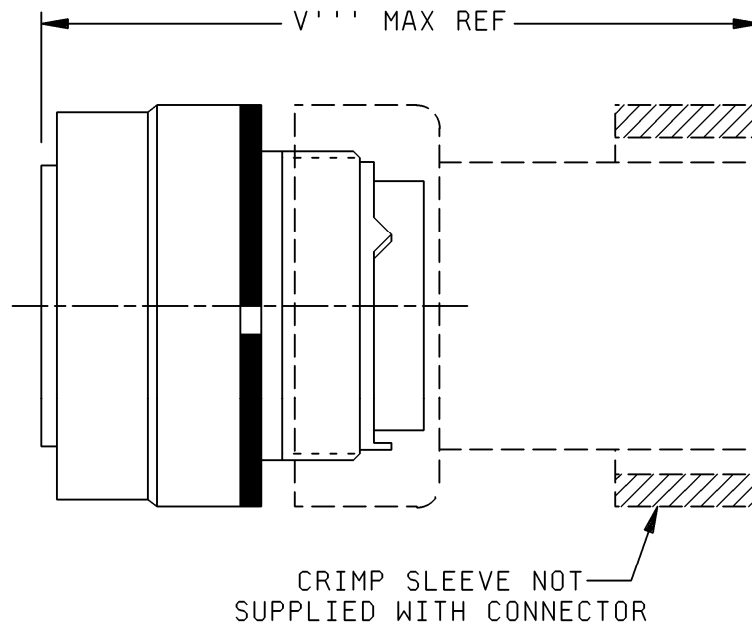


FIGURE 1. Plug dimensions - Continued.

MS3475F



COUPLED POSITION



ASSEMBLED TO RFI BACKSHELL  
SEE NOTE 4

FIGURE 1. Plug dimensions - Continued.

## MS3475F

Shell size	A	F	R	S	V'''	Max weight in lbs (grams) <u>1/</u>	
						Pin	Socket
8	.782 (19.86)	.887 (22.53)	.369 (9.37)	.363 (9.22) .343 (8.71)	2.334 (59.28)	.0204 (9.26)	.0216 (9.81)
10	.926 (23.52)	.887 (22.53)	.497 (12.62)		2.334 (59.28)	.0406 (18.43)	.0421 (19.11)
12	1.043 (26.49)	.887 (22.53)	.614 (15.60)		2.334 (59.28)	.0505 (22.93)	.0536 (24.33)
14	1.183 (30.05)	.887 (22.53)	.739 (18.77)		2.334 (59.28)	.0639 (29.01)	.0692 (31.42)
16	1.305 (33.15)	.887 (22.53)	.864 (21.95)		2.334 (59.28)	.0788 (35.77)	.0880 (39.95)
18	1.391 (35.33)	.887 (22.53)	.969 (24.61)		2.334 (59.28)	.0864 (39.22)	.0957 (43.44)
20	1.531 (38.89)	.825 (20.96)	1.094 (27.79)	.425 (10.80) .405 (10.29)	2.334 (59.28)	.1016 (46.12)	.1114 (50.57)
22	1.656 (42.06)	.825 (20.96)	1.219 (30.96)		2.334 (59.28)	.1241 (56.34)	.1363 (61.88)
24	1.777 (45.14)	.825 (20.96)	1.344 (34.14)		2.334 (59.28)	.1400 (63.56)	.1916 (86.98)

1/ Less contacts and accessories. Maximum weights do not apply to class S.

Inches	mm	Inches	mm	Inches	mm	Inches	mm
.008	0.20	.065	1.66	.200	5.08	.399	10.13
.025	0.64	.069	1.75	.218	5.54	.419	10.64
.029	0.74	.087	2.21	.225	5.72	1.230	31.24
.032	0.81	.097	2.46	.269	6.83		
.042	1.07	.101	2.57	.320	8.13		
.045	1.14	.107	2.72	.337	8.56		
.046	1.17	.187	4.75	.357	9.07		

## NOTES:

1. Dimensions are in inches. Metric equivalents are given for information only and are in parentheses.
2. Unless otherwise specified, tolerances are  $\pm .005$  (0.13 mm) for 3 place decimals,  $\pm .01$  (0.3 mm) for 2 place decimals, and  $\pm 1^\circ$  for all angles.
3. Color bands:  $0.070 \pm .031$  ( $1.78 \pm 0.79$  mm) wide, color blue.
4. Connector assembly must be used with a backshell. Backshells must be procured separately. See SAE-AS85049 for applicable backshells.
5. Insert arrangements requiring reduced diameters for raised seal barrier on outer row of contact cavities as indicated.

FIGURE 1. Plug dimensions - Continued.

# MS3475F

TABLE I. Contact cavities requiring reduced diameters (XX) for pins and sockets in outer row of contact cavities. 1/

Shell size	Insert arrangement	Contact Cavities
8	-33 & -98	A, B, C
12	-10	C, G
14	-12	A, B, C, D, E, F, G, H
14	-18	A, C, E, G, J, L
14	-19	B, D, F, H, K, M
16	-26	A, B, C, D, E, F, G, H, J, K, L, M, N, P, R
18	-32	A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T
22	-41	A, B, C, D, E, F, G, H, J, K, L, M, N, P, R, S, T, U, V, W, X, Y

1/ The reduced diameter "XX" refers to the diameters of the raised seal barriers (pin barrier rings) or lead-in chamfers (socket entry holes) to ensure proper sealing of pin and socket after mating. See MIL-DTL-26482, connector intermateability control dimensions figure (series 1 and series 2) for reduced diameter "XX" for contact size 20 only.

## REQUIREMENTS:

Dimensions and configuration: See figure 1 and in table I.

Connector mating: This connector mates with MS3470, MS3471, MS3472, MS3473, MS3474, MS3477 and MS3479.

Also, they will mate with MS3115 (dummy stowage receptacle) and the following series 1 receptacles provided both mating connectors contain a full compliment of power contacts: MS3100, MS3112, MS3113, MS3114, MS3119, MS3120, MS3122, MS3124, MS3127 and MS3128.

Intermateability and rear accessory interchangeability dimensions are in accordance with MIL-DTL-26482.

Class E is cancelled and replaced by class L.

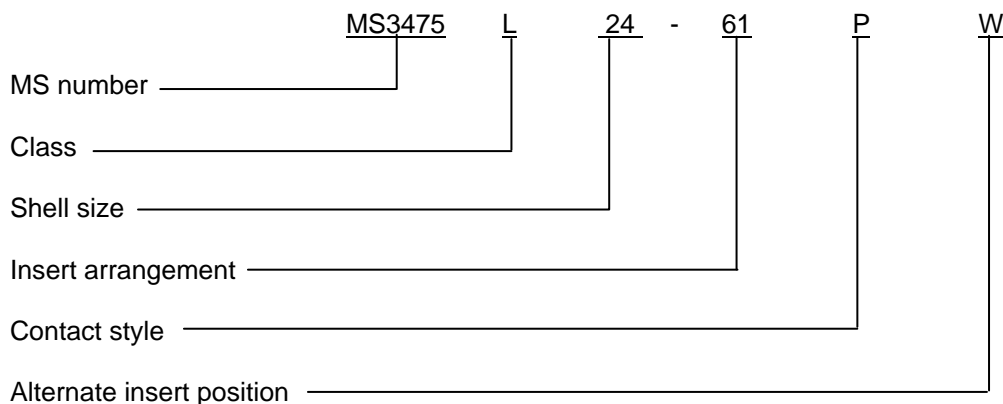
This specification sheet supersedes MIL-C-83723/42 and MIL-C-83723/43.

For insert arrangement, see MIL-STD-1669.

Insert arrangements requiring reduced diameters for raised seal barriers or lead-in chamfers on outer row of contact cavities as indicated, see table 1.

Connector identification marking shall be in accordance with MIL-DTL-26482. Example: MS3475L---, minimum height does not apply to shell sizes 8, 10 and 12.

Part or Identifying Number (PIN) example:



## MS3475F

Changes from previous issue. The margins of this specification sheet are marked with vertical lines to indicate where changes from the previous issue 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 issue.

Referenced documents. In addition to MIL-DTL-26482, this document references the following:

MS3100  
MS3112  
MS3113  
MS3114  
MS3115  
MS3119  
MS3120  
MS3122  
MS3124  
MS3127  
MS3128  
MS3470  
MS3471  
MS3472  
MS3473  
MS3474  
MS3477  
MS3479  
MIL-STD-1669  
SAE-AS85049

## CONCLUDING MATERIAL

### Custodians:

Army – CR  
Navy – AS  
Air Force – 85  
DLA – CC

### Preparing activity:

DLA – CC

(Project 5935–2007-187)

### Review activities:

Army – AR, AV  
Navy – EC, SH  
Air Force – 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.