INCH-POUND

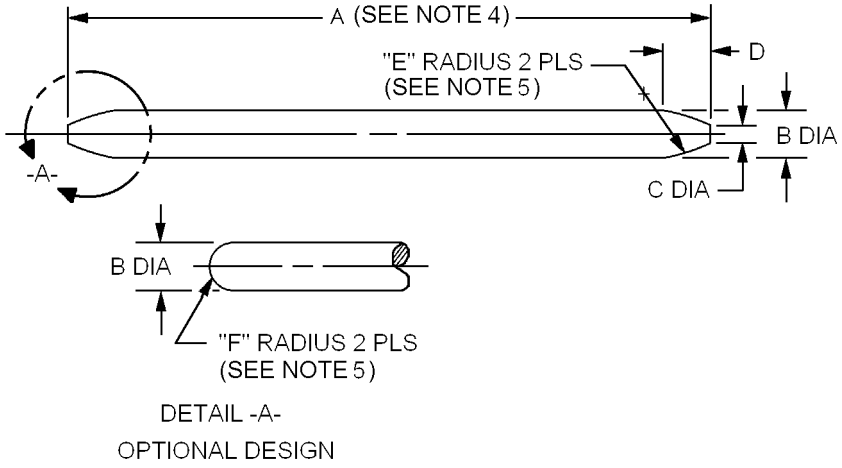
MS27625C
14 October 2009
SUPERSEDING
MS27625B
14 September 2005

DETAIL SPECIFICATION SHEET

WIRE, RETAINER

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-83296.



Part or Identifying Number (PIN)	A ±.015 (0.38) inch (mm)	B +.000 -.004 (+0.00 -0.10) inch (mm)	C ±.010 (0.25) inch (mm)	D inch (mm)	E +.010 -.000 (+0.25 -.000 mm)	F inch (mm)
MS27625-4C	1.438 (36.53)	.080 (2.030	.020 (0.51)	.073 (1.85)	.156 (3.96)	.030 (0.76)
MS27625-6C	1.735 (44.07)	.095 (2.41)	.023 (0.58)	.087 (2.21)	.186 (4.72)	.037 (0.94)
MS27625-8C	2.203 (55.96)	.095 (2.41)	.023 (0.58)	.087 (2.21)	.186 (4.72)	.037 (0.94)
MS27625-10C	2.625 (66.68)	.125 (3.18)	.031 (0.79)	.115 (2.92)	.246 (6.25)	.050 ±.010 (1.27 ±0.25)

FIGURE 1. Retainer wire dimensions and configuration.

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are for information only.
3. Unless otherwise specified all tolerances shall be ± .005 inch (0.13 mm).
4. Wire shall be straight within .020 inch (0.51 mm) full indicator movement.
5. Unless otherwise specified radius shall be concentric to wire OD within .005 inch (0.13 mm) full indicator movement.
6. Unless otherwise specified radius or break all corners to .005 +.005/-.000 inch (0.13 + 0.13/-.000 mm).
7. Radius shall be concentric to wire OD within .005 inch (0.13 mm) full indicator movement.
8. Surface roughness, as specified in ASME B46.1, shall not exceed 125µ inches (3.18 µm) nominal roughness average ($R_{a)}$.

FIGURE 1. Retainer wire dimensions and configuration - Continued.

REQUIREMENTS:

Dimensions and configurations shall be as specified on figure 1.

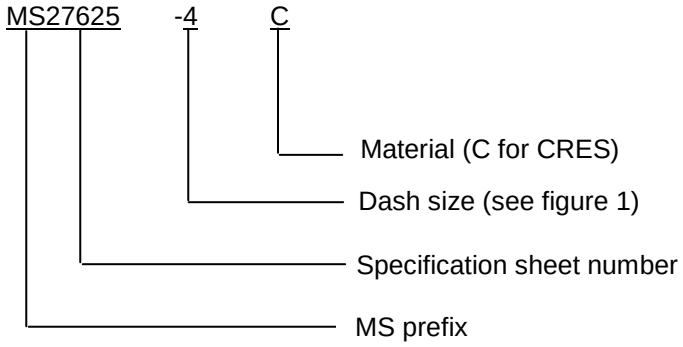
This is a design specification sheet for manufacturing purposes.

This specification sheet describes retainer wire used with MIL-DTL-83298 hose and MIL-DTL-32330 hose assemblies. Next assemblies are MS27620, MS27621, MS27633, and MS27634. The item is only procured as an integral part of an adapter assembly.

Material shall be a corrosion resistant steel (CRES), class 304 or 305, condition A in accordance with ASTM A313/A313M or ASTM A580/A580M.

Finish: Retainer wire shall be passivated in accordance with SAE-AMS2700. Dry-film lubricant shall be in accordance with MIL-PRF-46010 or SAE-AS5272.

PIN:



PIN example: MS27625-4C indicates a wire, retainer .080 inch diameter, CRES.

Changes from previous issue. Marginal notations are not used in this revision to identify changes due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-83296, this document references the following:

MIL-DTL-83298	MS27634
MIL-DTL-32330	ASME B46.1
MIL-PRF-46010	ASTM A313/A313M
MS27620	ASTM A580/A580M
MS27621	SAE-AMS2700
MS27633	SAE-AS5272

CONCLUDING MATERIAL

Custodians:
Army - AV
Navy - AS
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 4730-2008-043)

Review activities:
Navy - MC, SA
Air Force - 71

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.