

INCH-POUND

MIL-DTL-32330/1A
8 September 2015
SUPERSEDING
MIL-DTL-32330/1
10 August 2009

DETAIL SPECIFICATION SHEET
HOSE ASSEMBLY, CONDUCTIVE
POLYTETRAFLUOROETHYLENE TUBE, FLARED,
TUBE TO HOSE WITH SWIVEL NUT

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-32330.

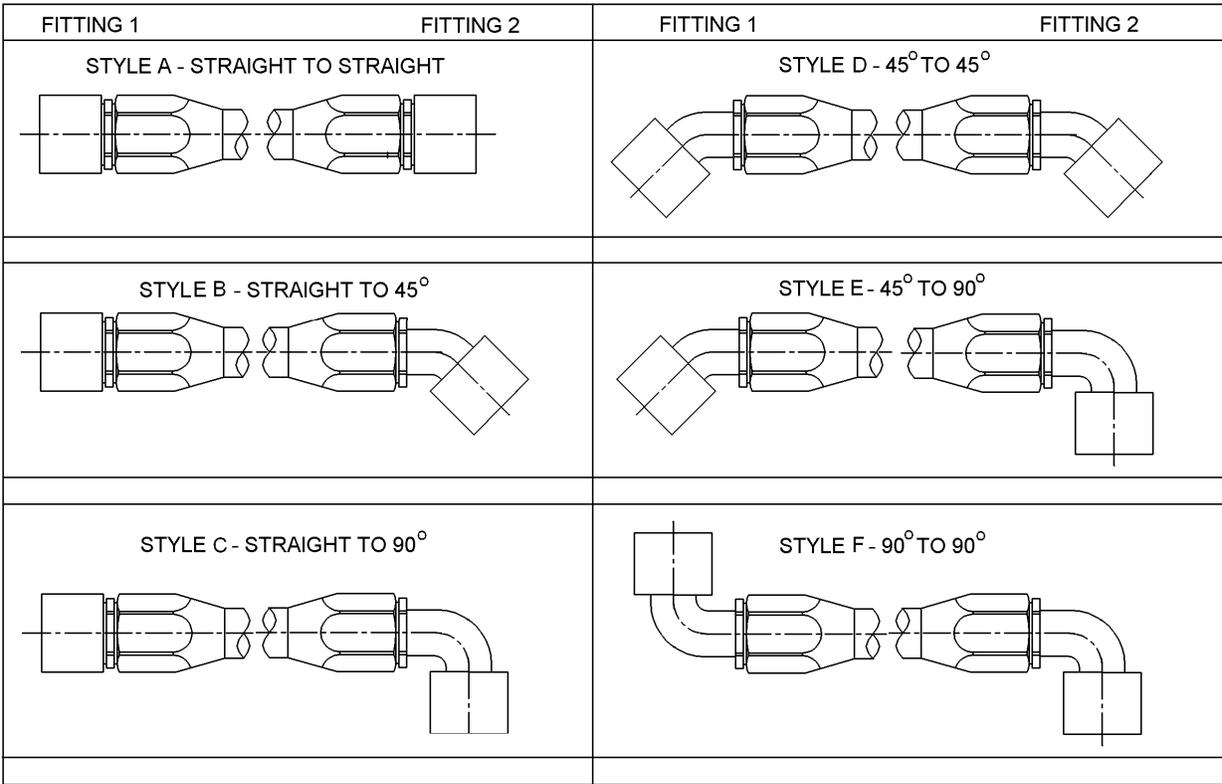


FIGURE 1. Hose assembly configurations.



MIL-DTL-32330/1A

Table I lists fitting ends “MS sheets” to style code as specified on figure 1.

TABLE I. Hose assembly, fitting styles A thru F to MS sheets.

Style code	Fitting ends MIL-DTL-83296		Configuration
	1	2	
A	MS27616	MS27616	Straight to straight
B	MS27616	MS27617	Straight to 45° elbow
C	MS27616	MS27618	Straight to 90° elbow
D	MS27617	MS27617	45° elbow to 45° elbow
E	MS27617	MS27618	45° elbow to 90° elbow
F	MS27618	MS27618	90° elbow to 90° elbow

REQUIREMENTS

Hose assemblies described herein shall be manufactured with fittings in accordance with MIL-DTL-83296 and hose in accordance with MIL-DTL-83298.

Hose assembly configurations shall be as specified on figures 1, 2, and 3.

Hose assembly length tolerance shall be in accordance with MIL-DTL-32330.

Fittings shall mate with parts in accordance with SAE-AS4395.

Size codes shall be as specified in table II.

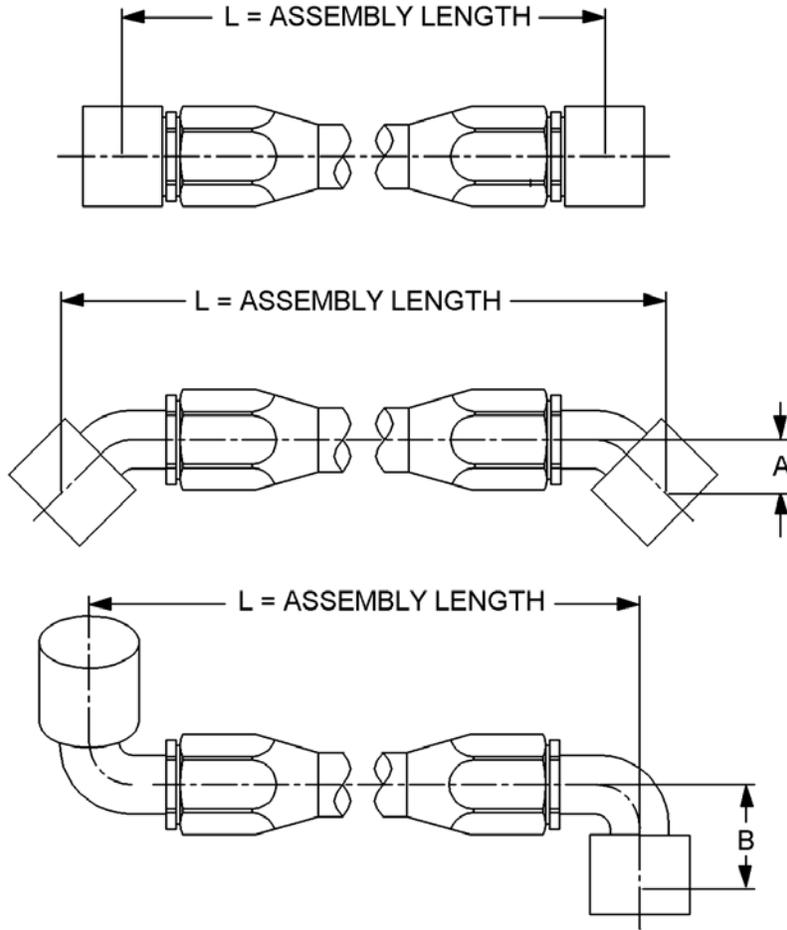
TABLE II. Size code. 1/ 2/

Size dash no.	Hose ID Inches	Min. hose ID inch (mm)	Max. over braid OD inch (mm)
-4	1/4	.217 (5.51)	.470 (11.94)
-6	3/8	.310 (7.87)	.575 (14.61)
-8	1/2	.425 (10.80)	.742 (18.85)
-10	5/8	.552 (14.02)	.882 (22.40)

1/ Dimensions are in inches.

2/ Metric equivalents are given for information only.

Hose assembly length. The hose assembly length is calculated as shown on figure 2.

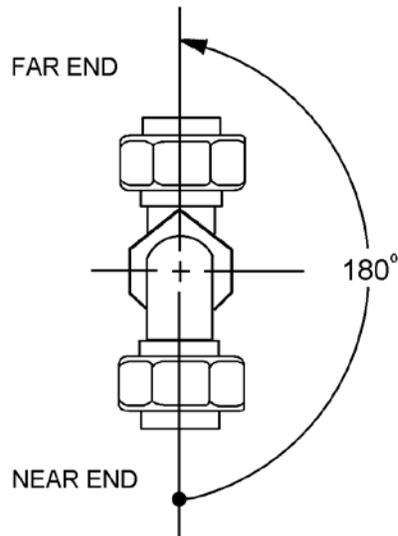


NOTES:

1. Length "L" to be measured between centers of nipple ends along a straight line parallel to hose length with hose laid out horizontally and straight.
2. Lengths of hose "L" are represented by feet (00 through 99), inches (00 through 11) and fractions in 1/8 inch increments (0 thru 7).

FIGURE 2. Hose assembly dimensions.

Hose assembly elbow fitting drop height. The hose assembly elbow fitting drop height is calculated as shown on figure 3.



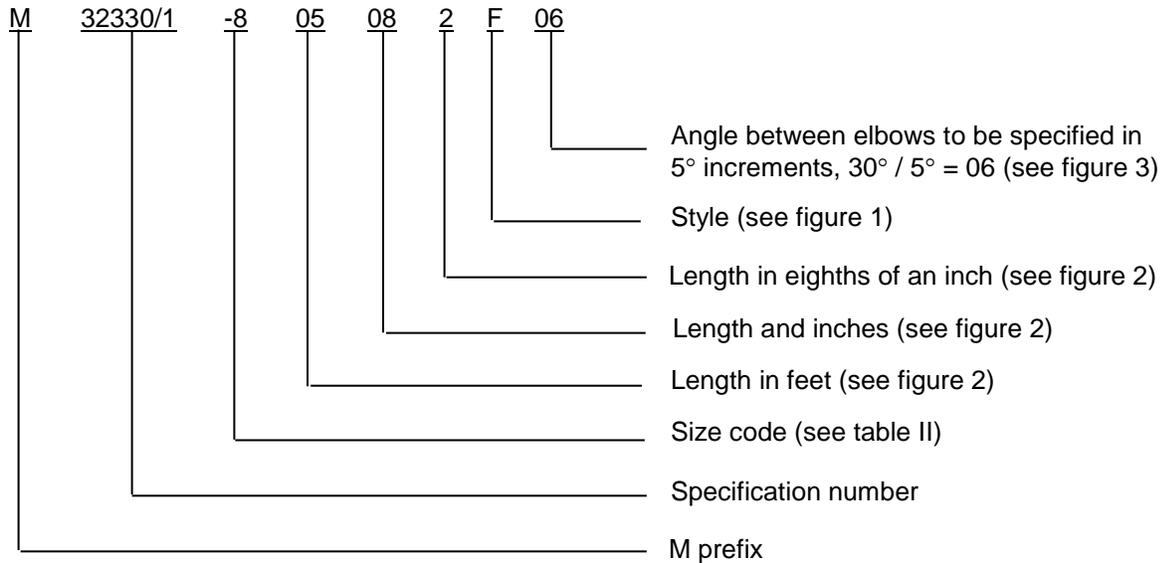
NOTES:

1. Angular displacement for hose assemblies with elbow fittings on both ends shall have the angular displacement between elbows, measured counter-clockwise from the centerline of the nearest fitting, positioned at six-o' clock, to the centerline of the other fitting (see SAE-J517).
2. The near end of the connector shall be put in numerical order relative to the far end. Examples: Near end adapter straight, far end 45°, near end adapter straight, far end 90°, near end adapter 45°, far end 90°.
3. Angular displacement shall be measured in degrees with a tolerance of $\pm 3^\circ$ for lengths up to 2 feet (61 cm) and $\pm 5^\circ$ for all lengths over 2 feet (61 cm).
4. The angular displacement shall be expressed in two digits number of degrees divided.
5. Making the angular determination in the wrong direction will result in an unacceptable part.
6. Elbow fitting drop height, A and B, are as specified in applicable fitting specification sheet (see table I)

FIGURE 3. Elbow fitting drop height and angular alignment.

MIL-DTL-32330/1A

Part or Identifying Number (PIN) example:



M32330/1-805082F06 indicates - Hose assembly for 1/2 inch hose I.D., 5 feet 8 1/4 inches in length, style F (90° elbow to 90° elbow), and 30° between angular displacement between elbows.

Changes from previous issue. The margins of this specification 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-32330, this document references the following:

- MIL-DTL-83296 SAE-AS4395
- MIL-DTL-83298 SAE-J517
- MS27616
- MS27617
- MS27618

MIL-DTL-32330/1A

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 4720-2015-006)

Review activities:

Army - AT
Navy - MC, SA

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 <https://assist.dla.mil>.