

INCH-POUND

MS3187F  
w/AMENDMENT 1  
26 August 2011  
SUPERSEDING  
MS3187F  
1 March 2007

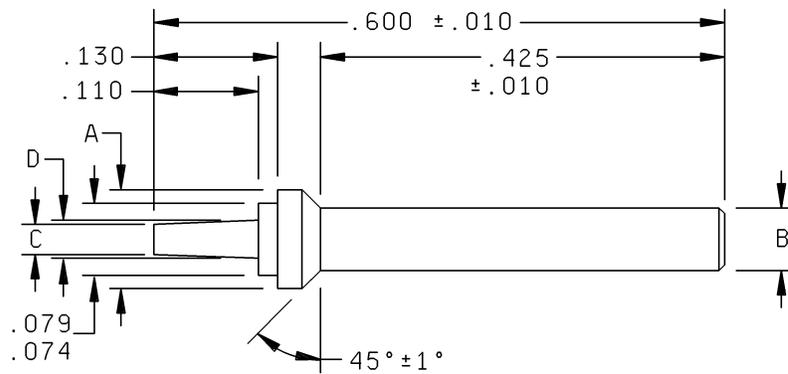
DETAIL SPECIFICATION SHEET

PLUG, END SEAL, FOR MIL-DTL-26482, SAE-AS50151, SAE-AS81703  
AND MIL-DTL-83723 ELECTRICAL CONNECTORS

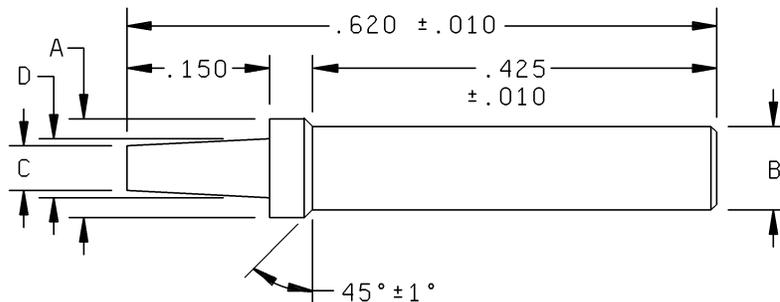
Reactivated after 1 March 2007, and may be used  
for new and existing designs and acquisitions.

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.



SEALING PLUG SIZE 20



SEALING PLUG SIZES 12-16

FIGURE 1. Grommet end seal for MIL-DTL-26482 series 1, and  
SAE-AS81703 series 2 electrical connectors.

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Part or Identifying Number (PIN)	Size	A	B ± .003	C	D	Color code
MS3187-A20	A20	.106 (2.69) .102 (2.59)	.066 (1.68)	.034 (0.86) .030 (0.76)	.042 (1.07) .037 (0.94)	Red
MS3187-16	16	.105 (2.67) .101 (2.57)	.088 (2.24)	.050 (1.27) .045 (1.14)	.064 (1.63) .059 (1.50)	Blue
MS3187-12	12	.153 (3.89) .147 (3.73)	.120 (3.05)	.082 (2.08) .077 (1.96)	.096 (2.44) .091 (2.31)	Yellow

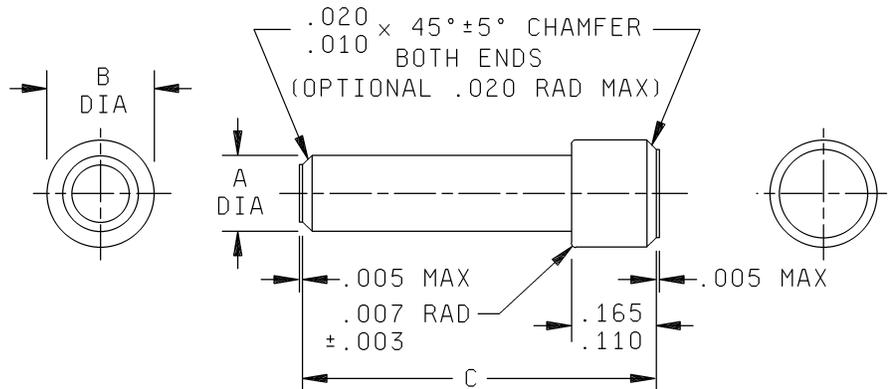
Inches	mm	Inches	mm
.003	0.08	.130	3.30
.010	0.25	.150	3.81
.074	1.88	.425	10.79
.079	2.01	.600	15.24
.110	2.79	.620	15.75

NOTES:

1. Dimensions are in inches. Metric equivalents are given for information only.
2. Unless otherwise specified, tolerances are ± .005 inches.

FIGURE 1. Grommet end seal for MIL-DTL-26482 series 1, and SAE-AS81703 series 2 electrical connectors - Continued.

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PIN	Install in connector contact cavity size	A dia	B dia	C	Color code
MS3187-20-2	20	.065 (1.65) .045 (1.14)	.100 (2.54) .085 (2.16)	.584 (14.83) .544 (13.82)	Red
MS3187-16-2	16	.093 (2.36) .073 (1.85)	.138 (3.51) .128 (3.25)	.584 (14.83) .544 (13.82)	Blue
MS3187-12-2	12	.131 (3.33) .111 (2.82)	.176 (4.47) .166 (4.22)	.584 (14.83) .544 (13.82)	Yellow
MS3187-8-2	8	.195 (4.95) .175 (4.45)	.320 (8.13) .310 (7.87)	.480 (12.19) .460 (11.68)	Red
MS3187-4-2	4	.320 (8.13) .300 (7.62)	.420 (10.67) .410 (10.41)	.480 (12.19) .460 (11.68)	Blue
MS3187-0-2	0	.450 (11.43) .430 (10.92)	.610 (15.49) .600 (15.24)	1.010 (25.65) .990 (25.15)	Yellow

Inches	mm	Inches	mm
.003	0.08	.020	0.51
.005	0.13	.110	2.79
.007	0.18	.165	4.19
.010	0.25		

NOTES:

1. Dimensions are in inches. Metric equivalents are given for information only.
2. Unless otherwise specified, tolerances are  $\pm .005$  inches.

FIGURE 2. Grommet end seal for MIL-DTL-26482 series 2, SAE-AS50151, SAE-AS81703 series 3 and MIL-DTL-83723 electrical connectors.

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REQUIREMENTS:

Dimensions and configurations: See figures 1 and 2.

Flash not to exceed .010 inches. Break all sharp corners.

Materials: Nylon, in accordance with ASTM-D4066, type III, for MIL-DTL-26482 series 1 and SAE-AS81703 series 2.

TFE or equivalent nonconductive material, capable of passing all class R performance requirements without damage to connector or plug for MIL-DTL-26482 series 2, SAE-AS81703 series 3, SAE-AS50151, and MIL-DTL-83723.

Color: Coding colors are specified in accordance with MIL-STD-104.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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

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

MIL-STD-104  
MIL-DTL-83723  
ASTM-D4066  
SAE-AS50151  
SAE-AS81703

CONCLUDING MATERIAL

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

Preparing activity:  
DLA – CC  
(Project 5935-2011-084)

Review activities:  
Army – AR, AV, MI  
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 <https://assist.daps.dla.mil>.