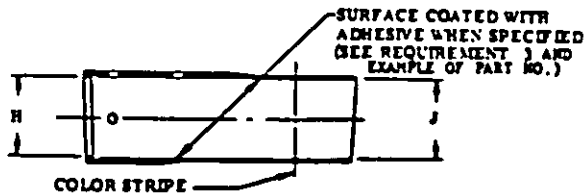
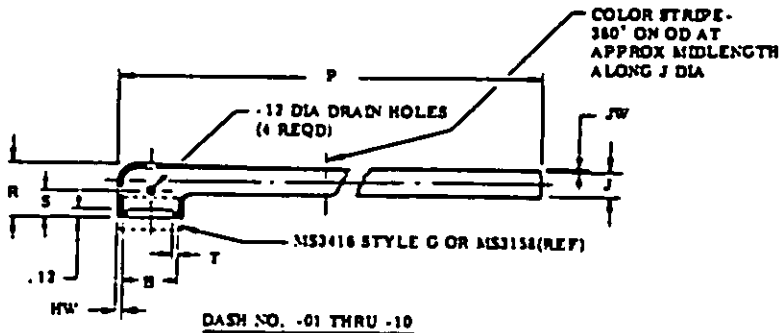


REVIEW ACTIVITIES:  
NAVY - EC

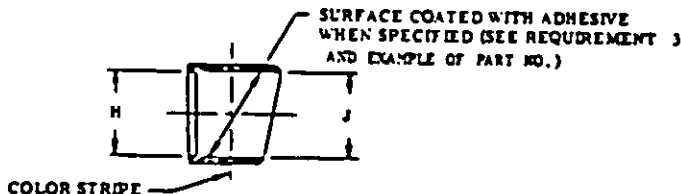
AS SUPPLIED



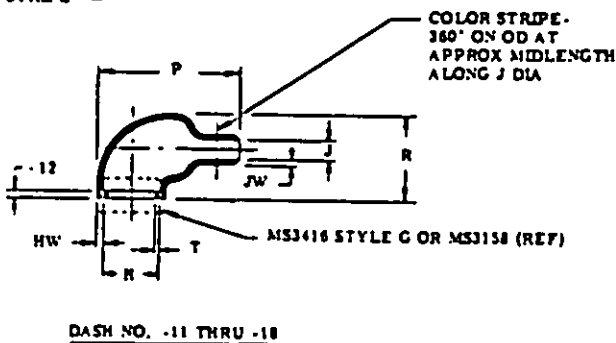
AS RECOVERED



AS SUPPLIED



AS RECOVERED



NOTES:

1. DIMENSIONS IN INCHES.
2. FOR USE WITH MS3416 STYLE G AND MS3158 BACKSHIELDS.
3. BOOTS SHRINK UPON APPLICATION OF HEAT IN EXCESS OF 150°C.

Ⓢ REINSTATED AS OF 17 JULY 1985

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

Ⓢ DENOTES CHANGES

DISTRIBUTION STATEMENT A: Approved for release; distribution is unlimited.  
 This standard has been approved by the NAVAL AIR SYSTEMS COMMAND  
 Department of the NAVY and is mandatory for use by  
 that activity. All other military activities are required  
 to comply with standards where available.

APPROVED 19 OCTOBER 71 REVISED Ⓢ 12 OCT 73 Ⓢ 11 JUNE 74 Ⓢ 17 FEB 78 Ⓢ 10 MAY 1982 Ⓢ 17 JULY 1985

P.A. NAVY - AS Other Code	TITLE BOOTS, HEAT-SHRINKABLE, STRAIN-RELIEF, RIGHT ANGLE	MILITARY STANDARD
		MS3117(AS)
PROCUREMENT SPECIFICATION MIL-I-B1765(AS)	SUPERSEDES:	SHEET 1 OF 3

REVIEW ACTIVITIES:  
NAVY - EC

DASH NO.	ROOTS FOR BACKSHEETS (REF)		H. DIA.		J DIA.			P 1.25	R 1.10	S 1.06	T V 1.004	J W 1.004	J W 1.004
	MS317 STYLE G	MS317A MS317B	SUPP. MIN	REC. MAX	SUPPLIED MIN Mat'l A, B & C	SUPPLIED MIN Mat'l A, D & C	MFC. MAX Mat'l A, D & C						
-01	-	-3, -8	.88	.45	.88	.55	.25	4.14	.73	.47	.040	.66	.045
-02	-3, -8	-10	1.01	.59	1.01	.63	.29	4.08	.78	.47	.010	.60	.045
-03	-10	-12, -14	1.16	.74	1.16	.72	.33	5.76	.82	.47	.040	.67	.045
-04	-12, -14	-16, -18	1.34	.90	1.34	.84	.38	6.78	.86	.47	.040	.67	.045
-05	-16, -18	-20	1.47	1.16	1.47	.91	.41	7.20	.96	.47	.065	.68	.045
-06	-20, -22	-22, -24, -61	1.72	1.34	1.72	1.07	.48	8.41	1.08	.47	.065	.68	.045
-07	-24, -61	-28	1.97	1.62	1.97	1.24	.56	8.84	1.16	.47	.065	.69	.055
-08	-28, -32	-32, -36	2.47	1.85	2.47	1.54	.63	8.95	1.31	.63	.080	.10	.055
-09	-36	-40	2.73	2.35	2.73	1.70	.77	9.19	1.38	.63	.080	.10	.055
-10	-40, -44	-44, -48	3.22	2.64	3.22	2.01	.90	9.33	1.75	.63	.080	.10	.055
-11	-	-3, -8	.92	.41	.92	.47	.22	1.08	.89	-	.040	.05	.05
-12	-3, -8	-10	1.12	.56	1.12	.58	.26	1.65	1.07	-	.040	.06	.06
-13	-10	-12, -14	1.22	.70	1.22	.63	.28	1.84	1.22	-	.040	.07	.07
-14	-12, -14	-16, -18	1.42	.88	1.42	.73	.33	2.20	1.38	-	.010	.07	.07
-15	-16, -18	-20, -22	1.68	1.11	1.68	.87	.39	2.71	1.73	-	.065	.08	.08
-16	-20, -22	-24, -28	2.04	1.38	2.04	1.39	.62	3.84	2.08	-	.065	.13	.13
-17	-28, -32	-32, -36	2.60	1.75	2.60	1.80	.80	4.81	2.60	-	.080	.15	.15
-18	-36, -40, -44, -48	-40, -44, -48	3.22	2.38	3.22	2.25	1.00	5.90	3.30	-	.080	.16	.16

This standard has been approved by the NAVAL AIR SYSTEMS COMMAND Department of the NAVY and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

APPROVED 19 OCTOBER 71 REVISED (E) FOR CHANGES SEE SHEET 1

P.A. NAVY - AS Other Cost	TITLE ROOTS, HEAT-SHRINKABLE, STRAIN-RELIEF, RIGHT ANGLE	MILITARY STANDARD MS3117(AS)
PROCUREMENT SPECIFICATION MIL-I-B1765(AS)	SUPERSEDES:	SHEET 2 OF 3

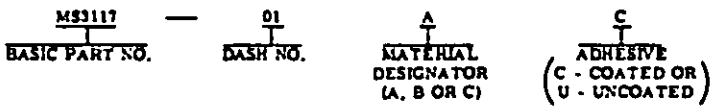
**REQUIREMENTS:**

1. MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

MATERIAL DESIGNATOR	MATERIAL TYPE	COLOR STRIPE	CONTINUOUS OPERATING TEMP. RANGE	FLEXIBILITY
A	MIL-I-81765/1 TYPE B	RED	-55°C TO +135°C	FLEXIBLE
B	MIL-I-81765/1 TYPE I	WHITE	-55°C TO +135°C	SEMI-RIGID
C	MIL-I-81765/4	YELLOW	-55°C TO +200°C	FLEXIBLE

2. COLOR STRIPES SHALL BE 1/8 INCH WIDE AND LOCATED AS SHOWN. COLORS SHALL REMAIN DISTINGUISHABLE OVER THE TEMPERATURE RANGE SPECIFIED.
3. ADHESIVE APPLIED ON INSIDE SURFACE SHALL BE A THERMOPLASTIC TYPE WITH A RING AND BALL SOFTENING POINT OF 120°C ± 5°C.
4. QUALIFICATION: 3 TYPICAL SAMPLES ASSEMBLED ON QUALIFIED CONNECTORS OR CONNECTORS UNDERGOING QUALIFICATION AND AN APPROPRIATE BACKSHELL SHALL BE TESTED PER MIL-STD-1344 AS FOLLOWS:
  - A. EXAMINATION OF PRODUCT
  - B. VIBRATION, METHOD 2005
  - C. INSULATION RESISTANCE, METHOD 3003
  - D. WATER PRESSURE IN ACCORDANCE WITH MIL-C-3015.
  - E. SHOCK, METHOD 2004
  - F. THERMAL SHOCK, METHOD 1003
  - G. POST EXAMINATION OF PRODUCT

**EXAMPLE OF PART NUMBER - MS3117-01AC**



REVIEW ACTIVITIES:  
NAVY - EC

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APPROVED 19 OCTOBER 71 REVISED (E) FOR CHANGES SEE SHEET 1

P.A. NAVY - AS Other Code	TITLE ROOTS, HEAT-SHRINKABLE, STRAIN-RELIEF, RIGHT ANGLE	MILITARY STANDARD <b>MS3117(AS)</b>
PROCUREMENT SPECIFICATION MIL-I-81765(AS)	SUPERSEDES:	SHEET 3 OF 3