

1 INCH-POUND 1

MIL-C-39012/25E
23 July 1991
SUPERSEDING
MIL-C-39012/25D
6 October 1983

MILITARY SPECIFICATION SHEET
CONNECTORS, COAXIAL, RADIOFREQUENCY
(HARDWARE FOR RADIOFREQUENCY COAXIAL CONNECTORS)

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 the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-C-39012.

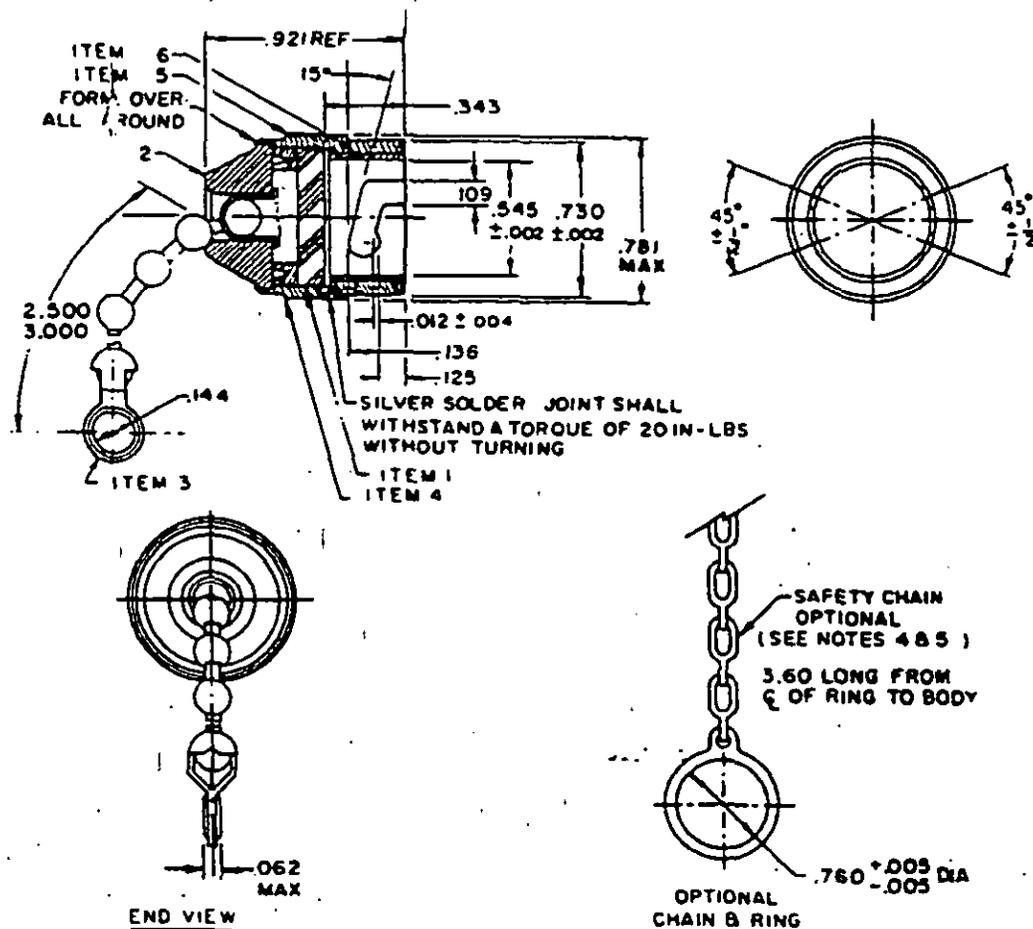
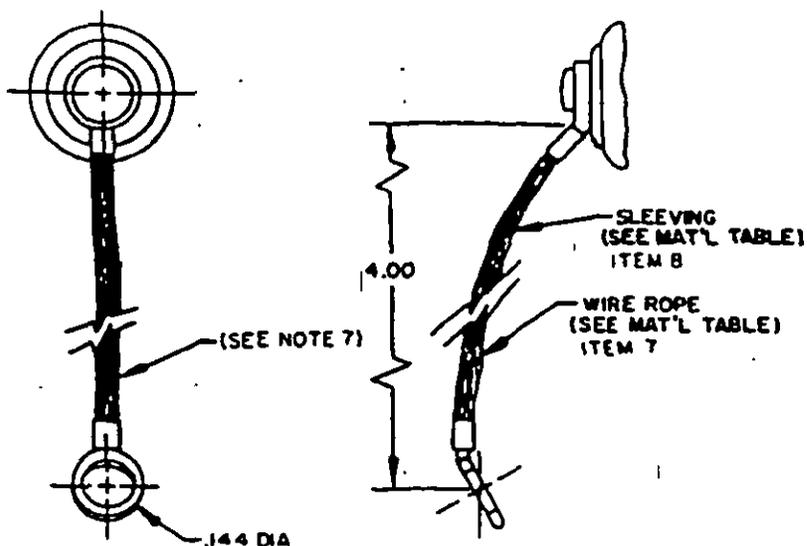


FIGURE 1. M39012/25-0001 cover for series C female connectors with bead chain.
M39012/25-0002 cover for series C female connectors with safety chain.
M39012/25-0101 cover for series C female connectors with wire rope.



Item	Material	Description
1	Silicon rubber	Gasket
2	Brass	Disc
3	Steel	Chain assembly
4	Silicon rubber	V-groove gasket
5	Brass	Coupling sleeve
6	Brass	Bayonet sleeve
7	SST	Wire rope
8	Teflon or nylon or equivalent	Covering

Inches	mm	Inches	mm
.002	0.05	.545	13.84
.004	0.10	.730	18.54
.005	0.13	.760	19.30
.012	0.30	.781	19.84
.062	1.57	.921	23.39
.109	2.77	2.5000	63.50
.125	3.18	3.000	76.20
.136	3.45	3.600	91.44
.144	3.66	4.000	101.60

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ± 0.005 (0.13 mm).
4. Safety chain: (Optional) corrosion resistant steel, passivated type II, class 6, trade number 00, in accordance with RR-C-271.
5. The chain shall withstand a tensile force as specified. The force shall be applied at a rate of approximately 100 pounds per minute. The applied force shall be 30 pounds for bead chain and 75 pounds for safety chain. The force shall be attached to the hole in the standard coupling.
6. Bayonets of connector shall lock in bottom slot and shall maintain the connector interface free of dust and moisture.
7. The wire rope shall be specified in MIL-W-83420, type 2, composition B.

FIGURE 1. M39012/25-0001 cover for series C female connectors with bead chain.
 M39012/25-0002 cover for series C female connectors with safety chain.
 M39012/25-0101 cover for series C female connectors with wire rope - Continued.

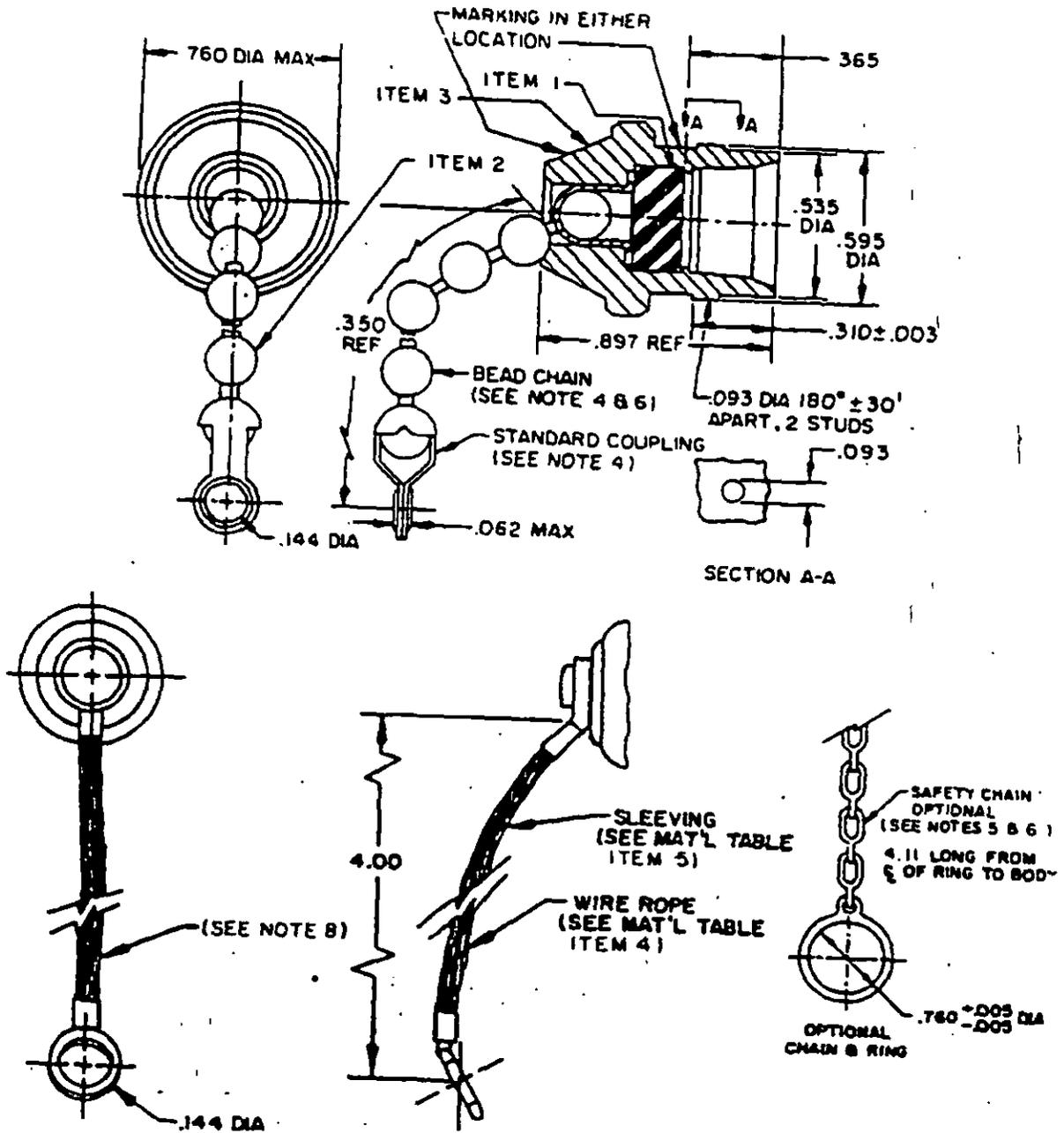


FIGURE 2. M39012/25-0003 cover for series C male with bead chain.
M39012/25-0004 cover for series C male with safety chain.
M39012/25-0103 cover for series C male with wire rope.

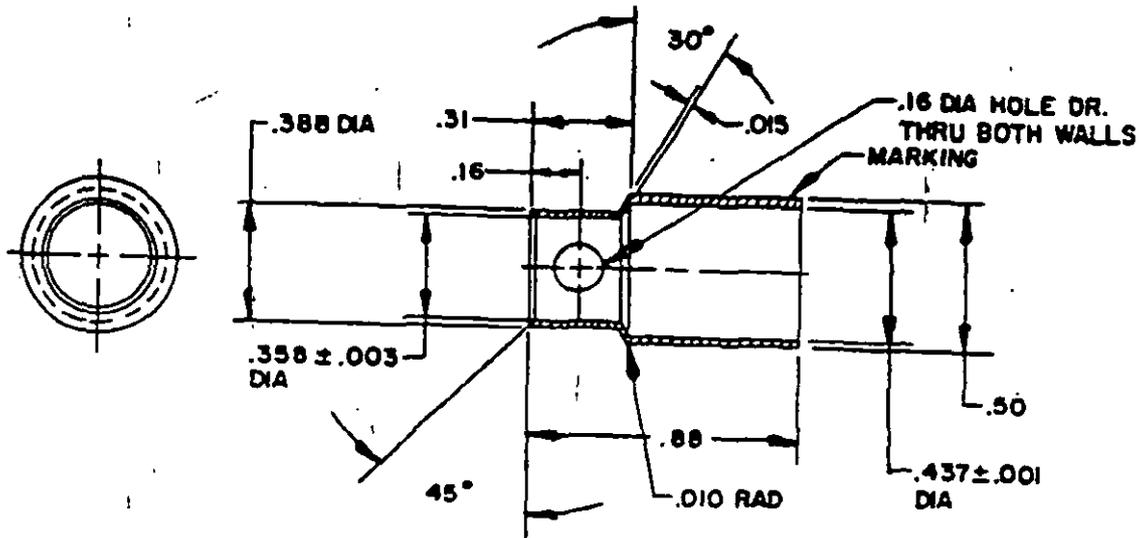
Item	Material	Description
1	Silicon rubber	Gasket
2	Steel	Chain assembly
3	Brass	Body
4	SST	Wire rope
5	Teflon or nylon or equivalent	Covering

Inches	mm	Inches	mm
.003	0.08	.595	15.11
.005	0.13	.760	19.30
.062	1.57	.897	22.78
.093	2.36	3.500	88.90
.144	3.66	4.000	101.60
.310	7.87	4.110	104.39
.535	13.59		

NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only.
- Unless otherwise specified, tolerance is ± 0.005 (0.13 mm).
- Standard coupling number 10-A (brass), bead chain number 6 (wornel metal or stainless steel), and sleeve number 10-S1 as supplied by the Bead Chain Manufacturing Company, Bridgeport, Connecticut, or equal.
- Safety chain: (Optional) corrosion resistant steel, passivated type II, class 6, trade number 00, in accordance with RR-C-271.
- The chain shall withstand a tensile force as specified. The force shall be applied at a rate of approximately 100 pounds per minute. The applied force shall be 30 pounds for bead chain and 75 pounds for safety chain. The force shall be attached to the hole in the standard coupling.
- Bayonets of connector shall lock in bottom slot and shall maintain the connector interface free of dust and moisture.
- The wire rope shall be specified in MIL-W-83420, type 2, composition B.

FIGURE 2. M39012/25-0003 cover for series C female with bead chain.
M39012/25-0004 cover for series C female with safety chain.
M39012/25-0103 cover for series C female with wire rope - Continued.



Inches	mm	Inches	mm
.001	0.03	.358	9.09
.003	0.08	.388	9.86
.010	0.25	.437	11.10
.015	0.38	.50	12.7
.16	4.1	.88	22.4
.31	7.9		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .02$ (0.5 mm) for two place decimals, $\pm .005$ (0.13 mm) for three place decimals, and $\pm 1/2^\circ$ on angles.
4. The material shall be brass. Silver plate in accordance with QQ-S-365A, .0001 (0.003 mm) inch thick minimum.

FIGURE 3. M39012/25-0005 shield.

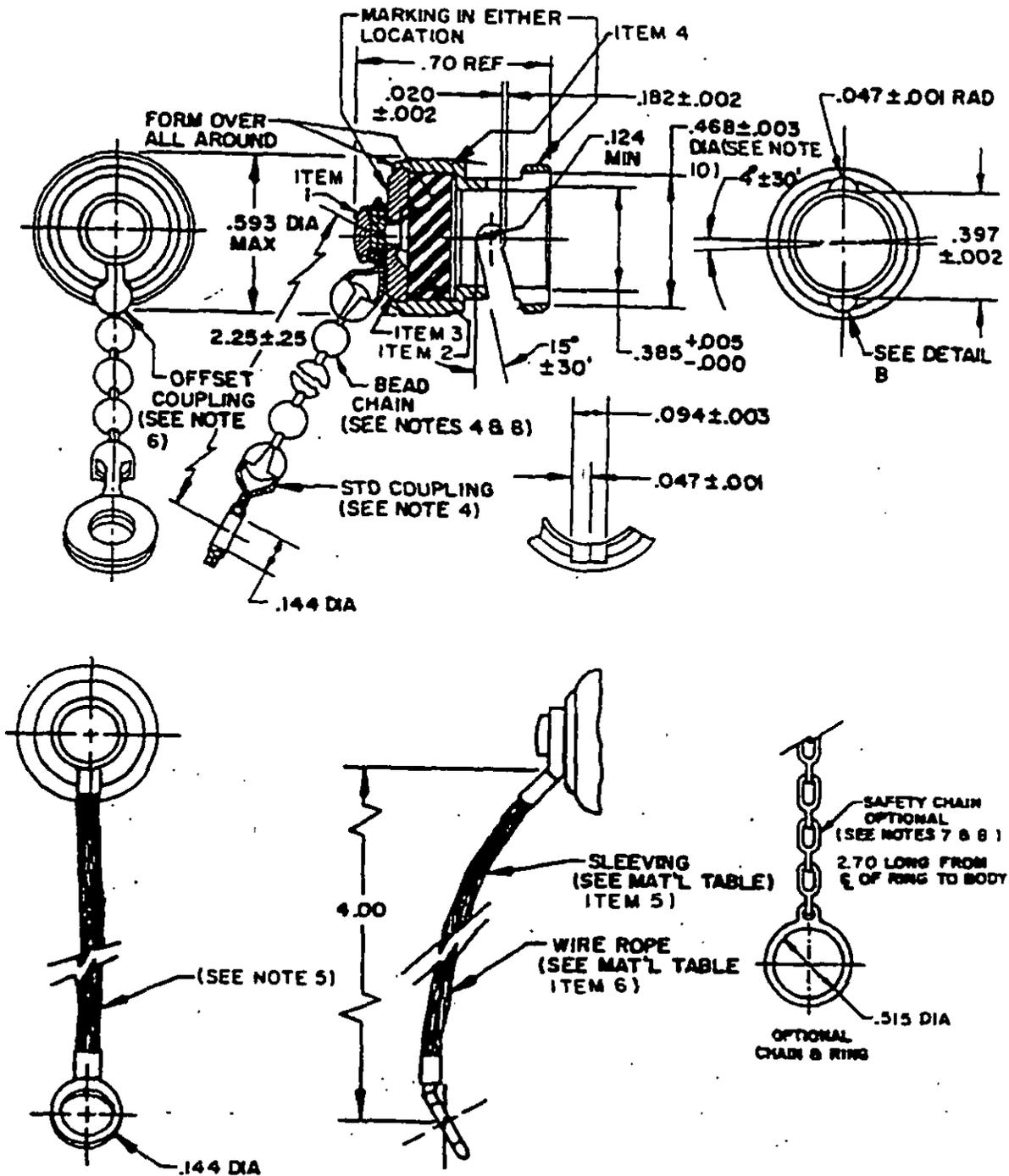


FIGURE 4. M39012/25-0006 cover for series BNC female connectors with bead chain.
 M39012/25-0007 cover for series BNC female connectors with safety chain.
 M39012/25-0106 cover for series BNC female connectors with wire rope.

Item	Material	Description				
1	Brass	Rivet				
2	Silicon rubber	Pad	Inches	mm	Inches	mm
3	Brass	Disc, body	.001	0.03	.385	9.78
4	Brass	Sleeve	.002	0.05	.397	10.08
5	SST	Wire rope	.003	0.08	.468	11.89
6	Teflon or nylon or equivalent	Covering	.005	0.13	.515	13.08
			.020	0.51	.593	15.06
			.047	1.19	.70	17.8
			.094	2.39	2.250	57.15
			.124	3.15	2.700	68.58
			.144	3.66	4.000	101.60
			.25	6.4		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm).
4. Standard coupling number 6AD (brass), bead chain number 6 (monel metal or stainless steel), and offset coupling number 6AD (brass), as supplied by the Bead Chain Manufacturing Company, Bridgeport, Connecticut, or equal.
5. The bead chain assembly to be finished with nickel plate, in lieu of silver, conforming to class I, type V of QQ-W-290. (Exception: Parts which are fabricated of monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test of MIL-C-39012.) The wire rope shall be specified in MIL-W-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) corrosion resistant steel, passivated type II, class 6, trade number 00, in accordance with RR-C-271.
8. The chain shall withstand a tensile force as specified. The force shall be applied at a rate of approximately 100 pounds per minute. The applied force shall be 30 pounds for bead chain and 75 pounds for safety chain. The force shall be attached to the hole in the standard coupling.
9. Bayonets of connector shall lock in bottom slot and shall maintain the connector interface free of dust and moisture.
10. For alternate construction only.

FIGURE 4. M39012/25-0006 cover for series BNC female connectors with bead chain.
M39012/25-0007 cover for series BNC female connectors with safety chain.
M39012/25-0106 cover for series BNC female connectors with wire rope - Continued.

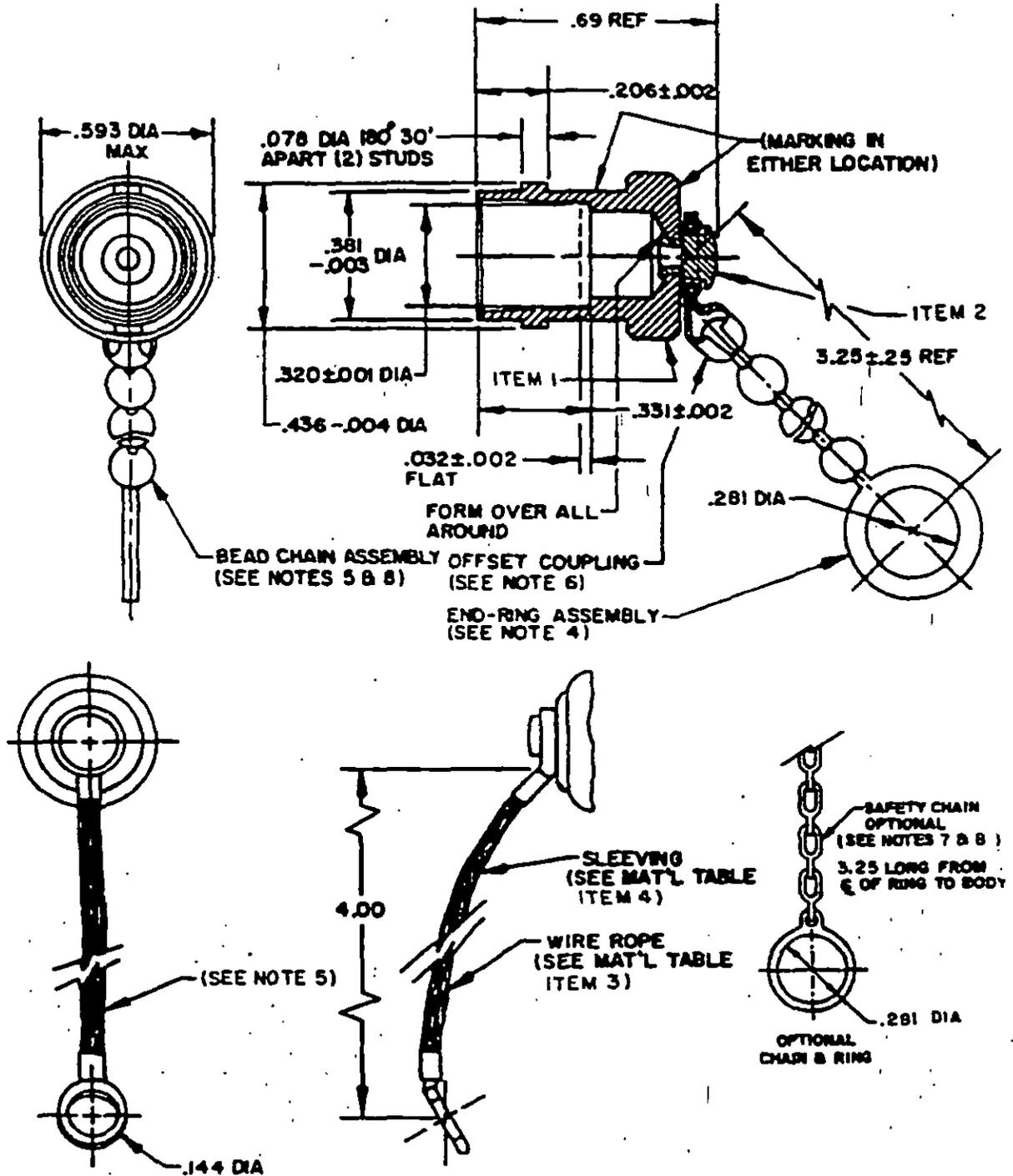


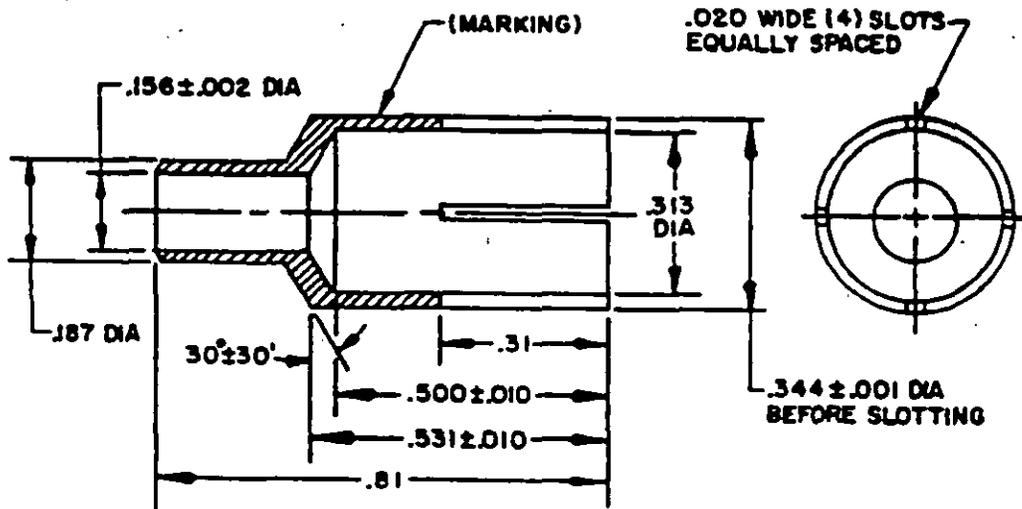
FIGURE 5. M39012/25-0008 cover for series BNC male connectors with bead chain.
 M39012/25-0009 cover for series BNC male connectors with safety chain.

Item	Material	Description	Inches		mm	
1	Brass	Body	.001	0.03	.281	7.14
			.002	0.05	.320	8.13
2	Brass	Rivet	.003	0.08	.331	8.41
			.004	0.10	.381	9.68
3	SST	Wire rope	.032	0.81	.436	11.07
			.078	1.98	.593	15.06
4	Teflon or nylon or equivalent	Covering	.144	3.66	.69	17.5
			.206	5.23	3.250	82.55
			.25	6.4	4.000	101.60

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .02$ (0.5 mm) for two place decimals and $\pm .005$ (0.13 mm) for three place decimals.
4. End ring assembly, number 6-R8 (brass), bead chain number 6 (monel metal or stainless steel), and offset coupling number 6AD (brass), as supplied by the Bead Chain Manufacturing Company, Bridgeport, Connecticut, or equal.
5. The bead chain assembly to be finished with nickel plate, in lieu of silver, conforming to class 1, type V of QQ-W-290. (Exception: Parts which are fabricated of monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test of MIL-C-39012.) The wire rope shall be specified in MIL-W-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) corrosion resistant steel, passivated type II, class 6, trade number 00, in accordance with RR-C-271.
8. The chain shall withstand a tensile force as specified. The force shall be applied at a rate of approximately 100 pounds per minute. The applied force shall be 30 pounds for bead chain and 75 pounds for safety chain. The force shall be attached to the hole in the standard coupling.
9. Bayonets of covers shall lock in bottom slot and shall maintain the connector interface free of dust and moisture.

FIGURE 5. M39012/25-0008 cover for series BNC male connectors with bead chain.
M39012/25-0009 cover for series BNC male connectors with safety chain - Continued.



Inches	mm	Inches	mm
.001	0.03	.31	7.9
.002	0.05	.313	7.95
.010	0.25	.344	8.74
.020	0.51	.500	12.70
.156	3.96	.513	13.03
.187	4.75	.81	20.6

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .02$ (0.5 mm) for two place decimals, $\pm .005$ (0.13 mm) for three place decimals, and $\pm 1/2^\circ$ on angles.
4. The material shall be brass. Silver plate in accordance with QQ-S-365, .0001 (0.003 mm) inch thick minimum.

FIGURE 6. M39012/25-0010 shield for series BNC receptacles.

Item	Material	Description
1	Brass	Rivet
2	Silicon rubber	Gasket
3	Brass	Cap
4	SST	Wire rope
5	Clear teflon or nylon or equivalent	Covering

Inches	mm	Inches	mm
.005	0.13	.632	16.05
.062	1.57	.635	16.13
.144	3.66	.687	17.45
.25	6.4	.827	21.01
.312	7.92	2.50	63.5
.455	11.56	3.75	95.2
.625	15.88	4.00	101.6

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm).
4. Standard coupling number 6AD (brass), as supplied by the Bead Chain Manufacturing Company, Bridgeport, Connecticut, or equal.
5. The bead chain assembly to be finished with nickel plate, in lieu of silver, conforming to class 1, type V of QQ-N-290. (Exception: Parts which are fabricated of monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test of MIL-C-39012.) The wire rope shall conform to MIL-W-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) corrosion resistant steel, passivated type II, class 6, trade number 00, in accordance with RR-C-271.
8. The chain shall withstand a tensile force as specified. The force shall be applied at a rate of approximately 100 pounds per minute. The applied force shall be 30 pounds for bead chain and 75 pounds for safety chain. The force shall be attached to the hole in the standard coupling.
9. Caps shall maintain connector interface free of dust and moisture.
10. This dimension is to the end of cap threads.

FIGURE 7. M39012/25-0011 cap and chain for series N female connectors with bead chain.
M39012/25-0012 cap and chain for series N female connectors with safety chain.
M39012/25-0111 cap and chain for series N female connectors with wire rope - Continued.

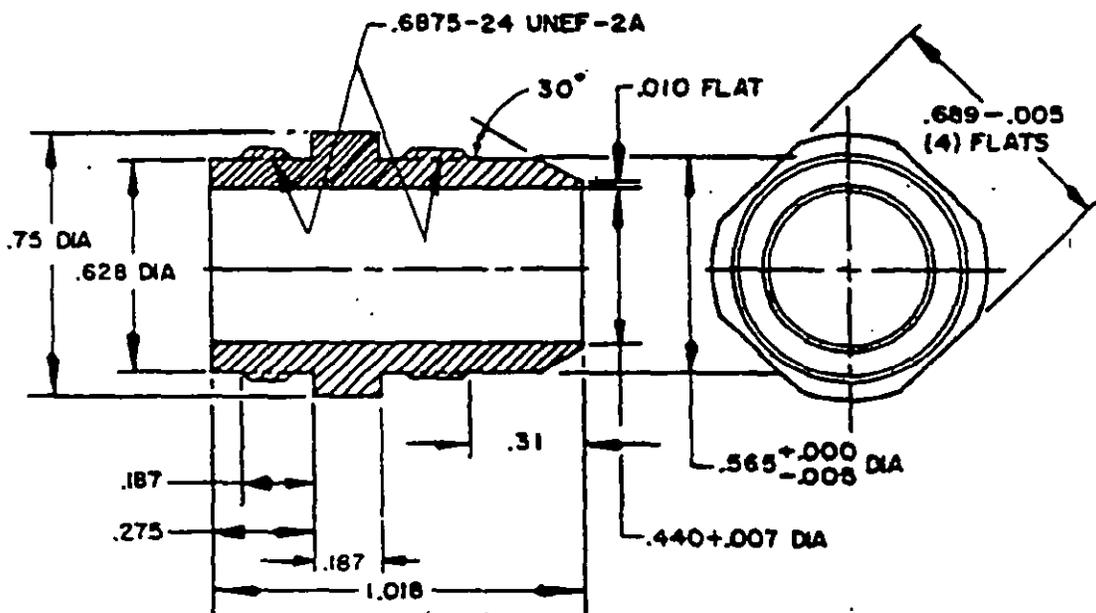


FIGURE BA

Inches	mm	Inches	mm
.005	0.13	.440	11.18
.007	0.18	.565	14.35
.010	0.25	.628	15.95
.062	1.57	.6875	17.462
.187	4.75	.689	17.50
.275	6.98	.750	19.05
.310	7.87	1.018	25.86

FIGURE 6. M39012/25-0013 armor clamp for M17/74-RG215 and M17/6-RG12 cable.

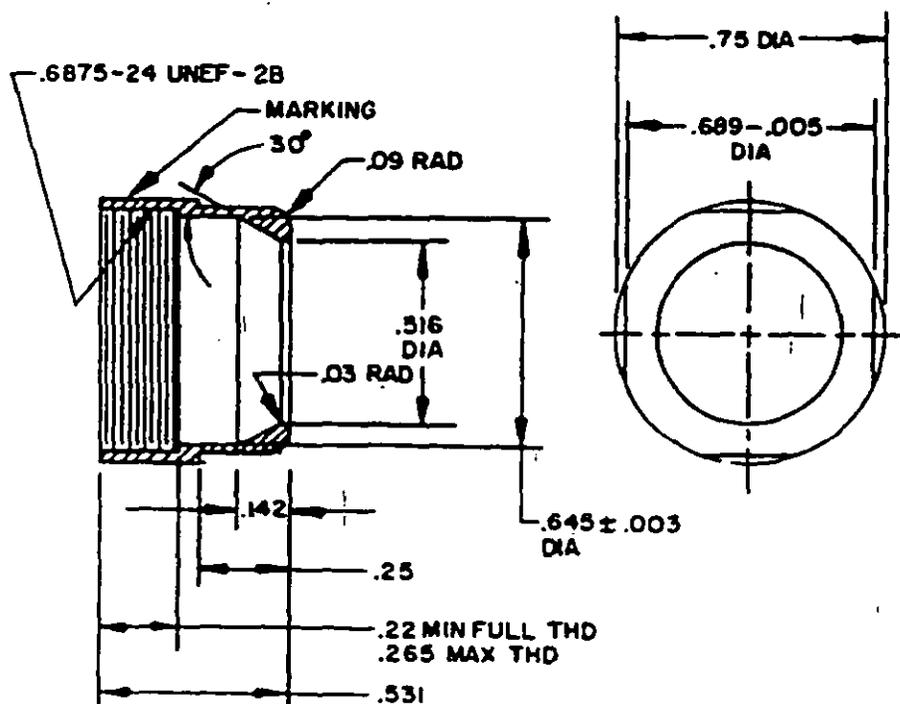


FIGURE 8B

Inches	mm	Inches	mm
.003	0.08	.265	6.73
.005	0.13	.516	13.11
.03	0.8	.531	13.49
.09	2.29	.645	16.38
.142	3.61	.689	17.50
.22	5.6	.750	19.05
.25	6.4		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .02$ (0.5 mm) for two place decimals, $\pm .005$ (0.13 mm) for three place decimals, and $\pm 1/2^\circ$ on angles.
4. The material shall be brass. Silver plate in accordance with QQ-S-365, .0001 (0.003 mm) inch thick minimum.

FIGURE 8. M39012/25-0013 armor clamp for M17/74-RG215 and M17/6-RG12 cable - Continued.

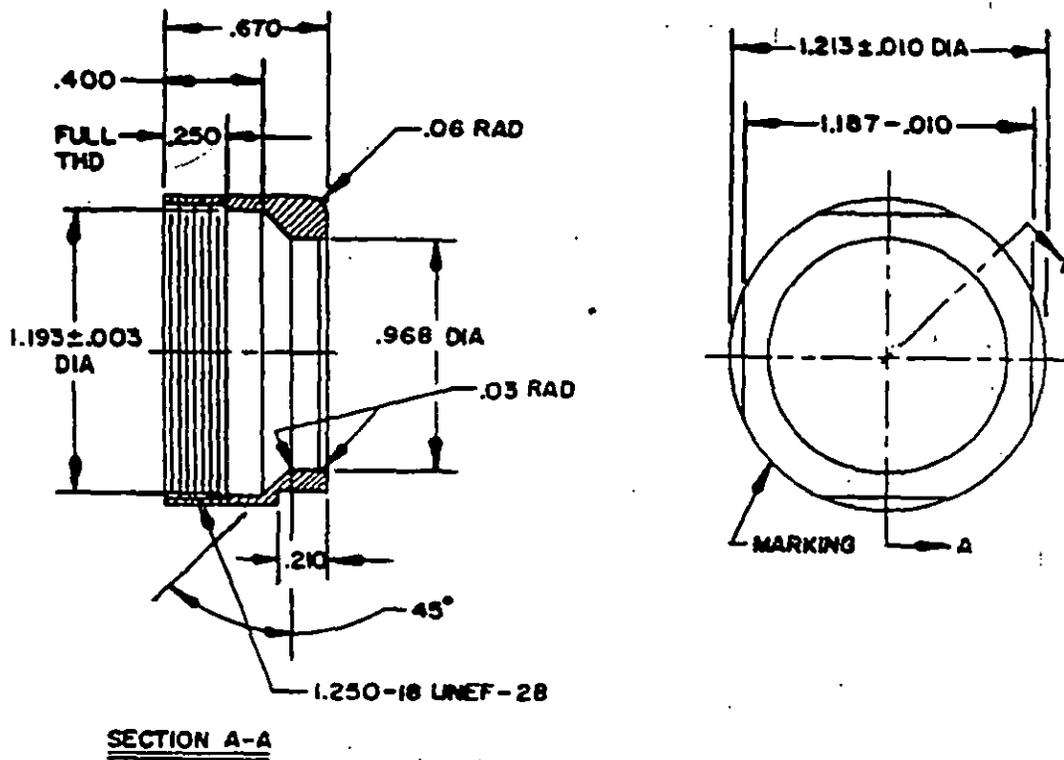


FIGURE 9A

Inches	mm	Inches	mm
.003	0.08	.670	17.02
.010	0.25	.968	24.59
.03	0.8	1.187	30.15
.06	1.5	1.193	30.30
.210	5.33	1.250	31.75
.250	6.35	1.312	33.32
.400	10.16		

FIGURE 9. M39012/25-0014 armor clamp for M17/79-RG219 cable.

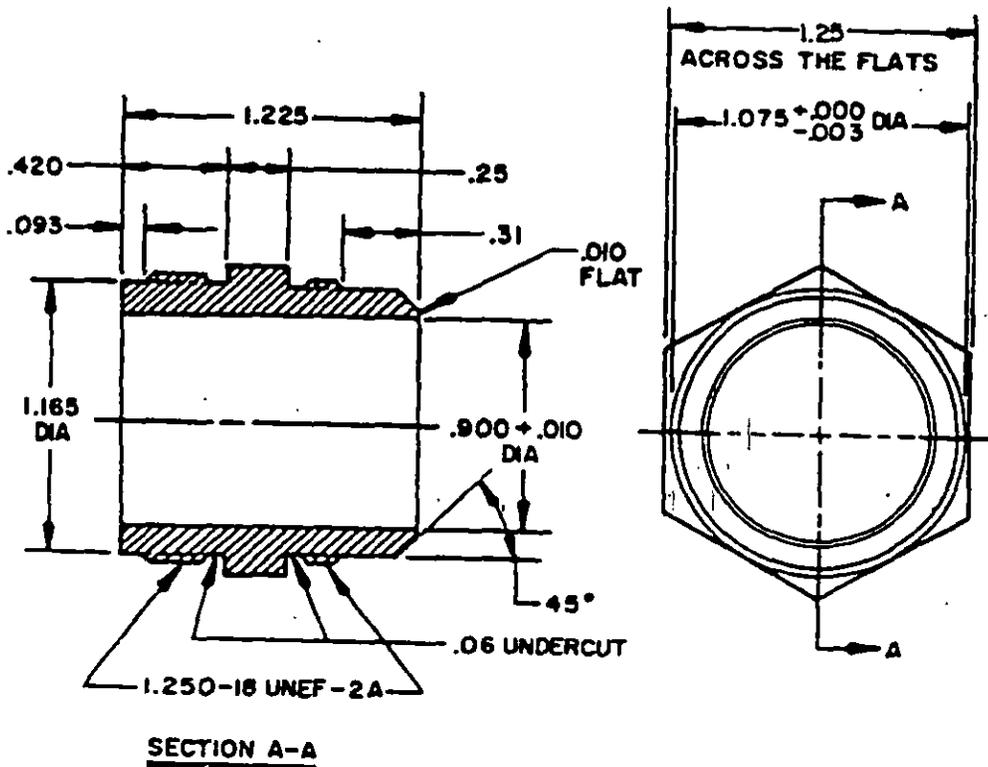


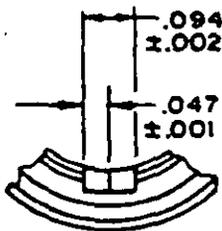
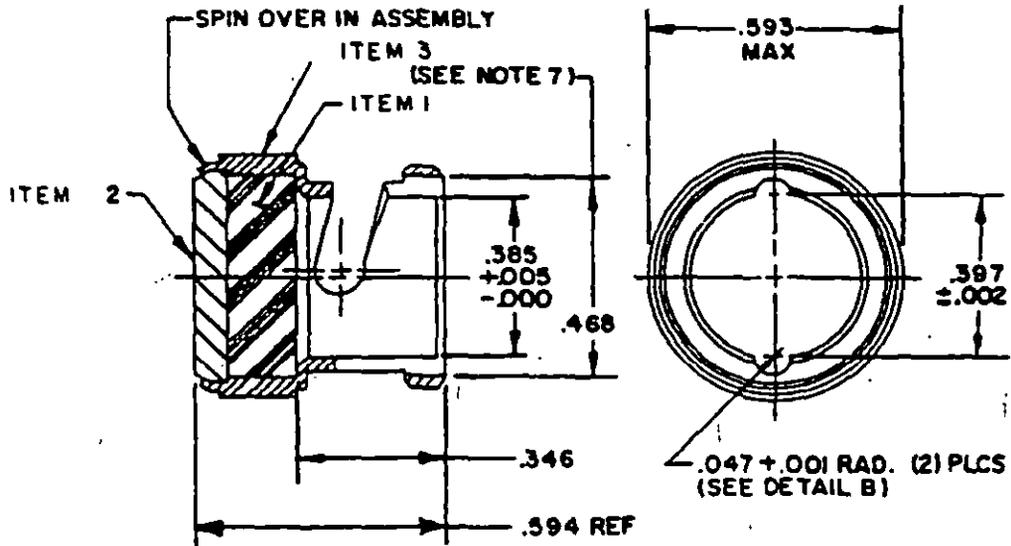
FIGURE 9B

Inches	mm
.005	0.13
.010	0.25
.06	1.5
.093	2.36
.250	6.35
.310	7.87
.420	10.67
.900	22.86
1.075	27.30
1.125	28.58
1.165	29.59
1.225	31.12
1.250	31.75

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .02$ (0.5 mm) for two place decimals, $\pm .005$ (0.13 mm) for three place decimals, and $1/2^\circ$ on angles.
4. The material shall be brass. Silver plate in accordance with QQ-S-365, .0001 (0.003 mm) inch thick minimum.

FIGURE 9. M39012/25-0014 armor clamp for M17/79-RG219 cable - Continued.



DETAIL B
ALTERNATE
CONSTRUCTION

Inches	mm	Inches	mm
.001	0.03	.346	8.79
.002	0.05	.385	9.78
.005	0.13	.468	11.89
.047	1.19	.593	15.06
.094	2.39	.594	15.09

Item	Material	Description
1	Silicon rubber	Gasket
2	Brass	Disc
3	Brass	Sleeve

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .02$ (0.5 mm) for two place decimals and $\pm .005$ (0.13 mm) for three place decimals.
4. Bayonets of connector shall lock in bottom slot and shall maintain the connector interface free of dust and moisture.
5. Marking shall be on any visible surface.
6. All undimensioned configurations are for reference only.
7. Alternate construction only.

FIGURE 10. M39012/25-0015 cap for series BNC female connectors.

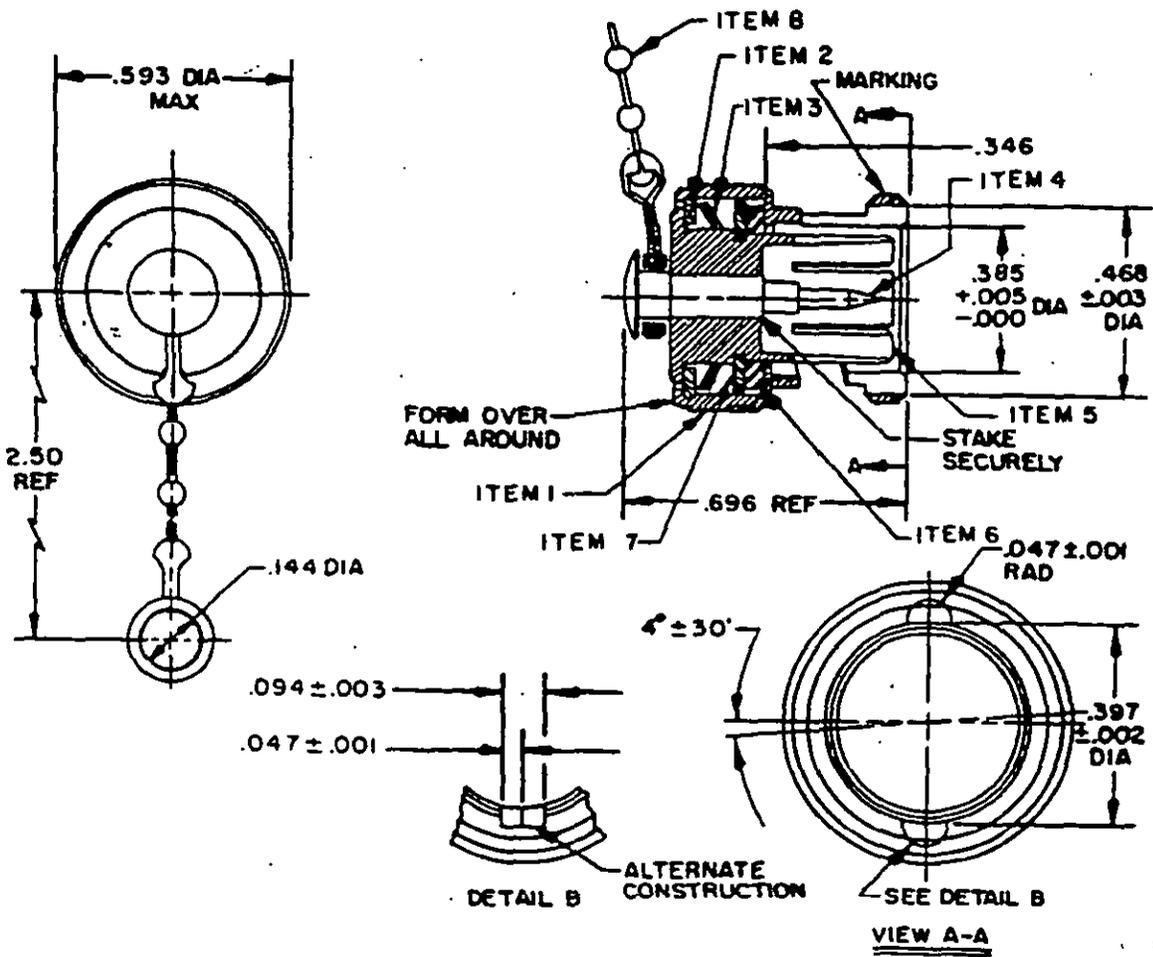
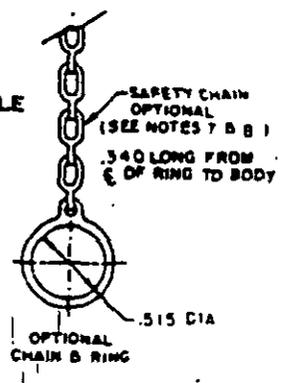
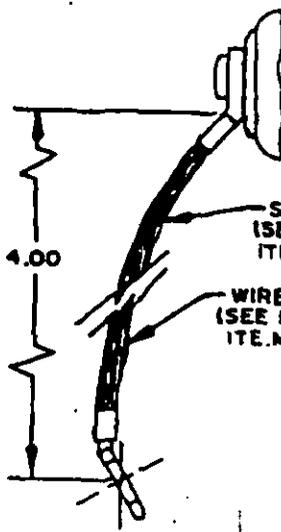


FIGURE 11. M39012/25-0016 shorting plug for series BNC female connectors with bead chain.
M39012/25-0017 shorting plug for series BNC female connectors with safety chain.
M39012/25-0116 shorting plug for series BNC female connectors with wire rope.



Item	Material	Description
1	Brass	Sleeve
2	Brass	Washer
3	Copper beryllium	Spring
4	Brass	Contact pin
5	Brass	Body
6	Silicon rubber	Gasket
7	brass	Washer
8	Notes 5 and 8	Beaded chain
9	SST	Wire rope
10	Teflon or nylon or equivalent	Covering

Inches	mm	Inches	mm
.001	0.03	.397	10.08
.002	0.05	.468	11.89
.003	0.08	.515	13.08
.005	0.13	.593	15.06
.047	1.19	.696	17.68
.094	2.39	2.50	63.5
.144	3.66	3.40	86.4
.346	8.79	4.00	101.6
.385	9.78		

NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only.
- Unless otherwise specified, tolerances are $\pm .02$ (0.5 mm) for two place decimals and $\pm .005$ (0.13 mm) for three place decimals.
- Standard coupling number 6AD (brass), bead chain number 6 (monel metal or stainless steel), and offset coupling number 6AD (brass), as supplied by the Bead Chain Manufacturing Company, Bridgeport, Connecticut, or equal.
- The bead chain assembly to be finished with nickel plate, in lieu of silver, conforming to class 1, type V of QQ-N-290. (Exception: Parts which are fabricated of monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test of MIL-C-39012.) The wire rope shall be specified in MIL-W-83420, type 2, composition B.
- The offset coupling must rotate freely after riveting.
- Safety chain: (Optional) corrosion resistant steel, passivated type II, class 6, trade number 00.
- The chain shall withstand a tensile force as specified. The force shall be applied at a rate of approximately 100 pounds per minute. The applied force shall be 30 pounds for bead chain and 75 pounds for safety chain. The force shall be attached to the hole in the standard coupling.

FIGURE 11. M39012/25-0016 shorting plug for series BNC female connectors with bead chain.
M39012/25-0017 shorting plug for series BNC female connectors with safety chain.
M39012/25-0116 shorting plug for series BNC
female connectors with wire rope - Continued.

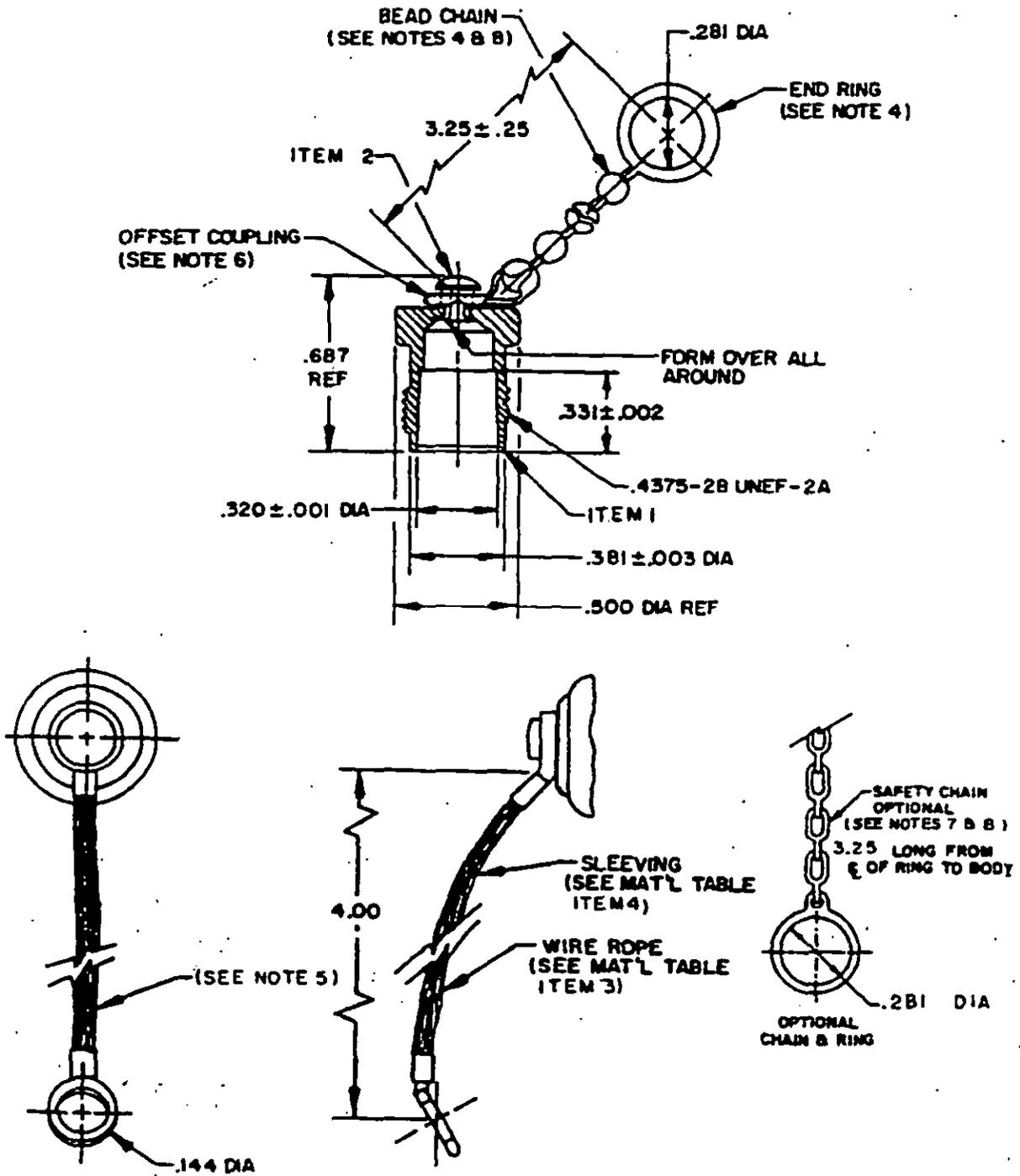


FIGURE 12. M39012/25-0018 cap and chain for series TNC male connectors with bead chain.
 M39012/25-0019 cap and chain for series TNC male connectors with safety chain.
 M39012/25-0118 cap and chain for series TNC male connectors with wire rope.

Item	Material	Description	Inches		mm	
1	Brass	Body				
2	Brass	Rivet	.001	0.03	.331	8.41
			.002	0.05	.381	9.68
3	SST	Wire rope	.003	0.08	.4375	11.112
			.144	3.66	.593	15.06
4	Teflon or nylon or equivalent	Covering	.25	6.4	.687	17.45
			.281	7.14	3.25	82.6
			.320	8.13	4.00	101.6

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .02$ (0.5 mm) for two place decimals and $\pm .005$ (0.13 mm) for three place decimals.
4. End ring assembly, number 6AD (brass), bead chain number 6 (monel metal or stainless steel), and offset coupling number 6AD (brass), as supplied by the Bead Chain Manufacturing Company, Bridgeport, Connecticut, or equal.
5. The bead chain assembly to be finished with nickel plate, in lieu of silver, conforming to class 1, type V of QQ-W-290. (Exception: Parts which are fabricated of monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test of MIL-C-39012.) The wire rope shall be specified in MIL-W-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) corrosion resistant steel, passivated type II, class 6, trade number 00, in accordance with RR-C-271.
8. The chain shall withstand a tensile force as specified. The force shall be applied at a rate of approximately 100 pounds per minute. The applied force shall be 30 pounds for bead chain and 75 pounds for safety chain. The force shall be attached to the hole in the standard coupling.

FIGURE 12. M39012/25-0018 cap and chain for series TNC male connectors with bead chain.
M39012/25-0019 cap and chain for series TNC male connectors with safety chain.
M39012/25-0118 cap and chain for series TNC male connectors with wire rope - Continued.

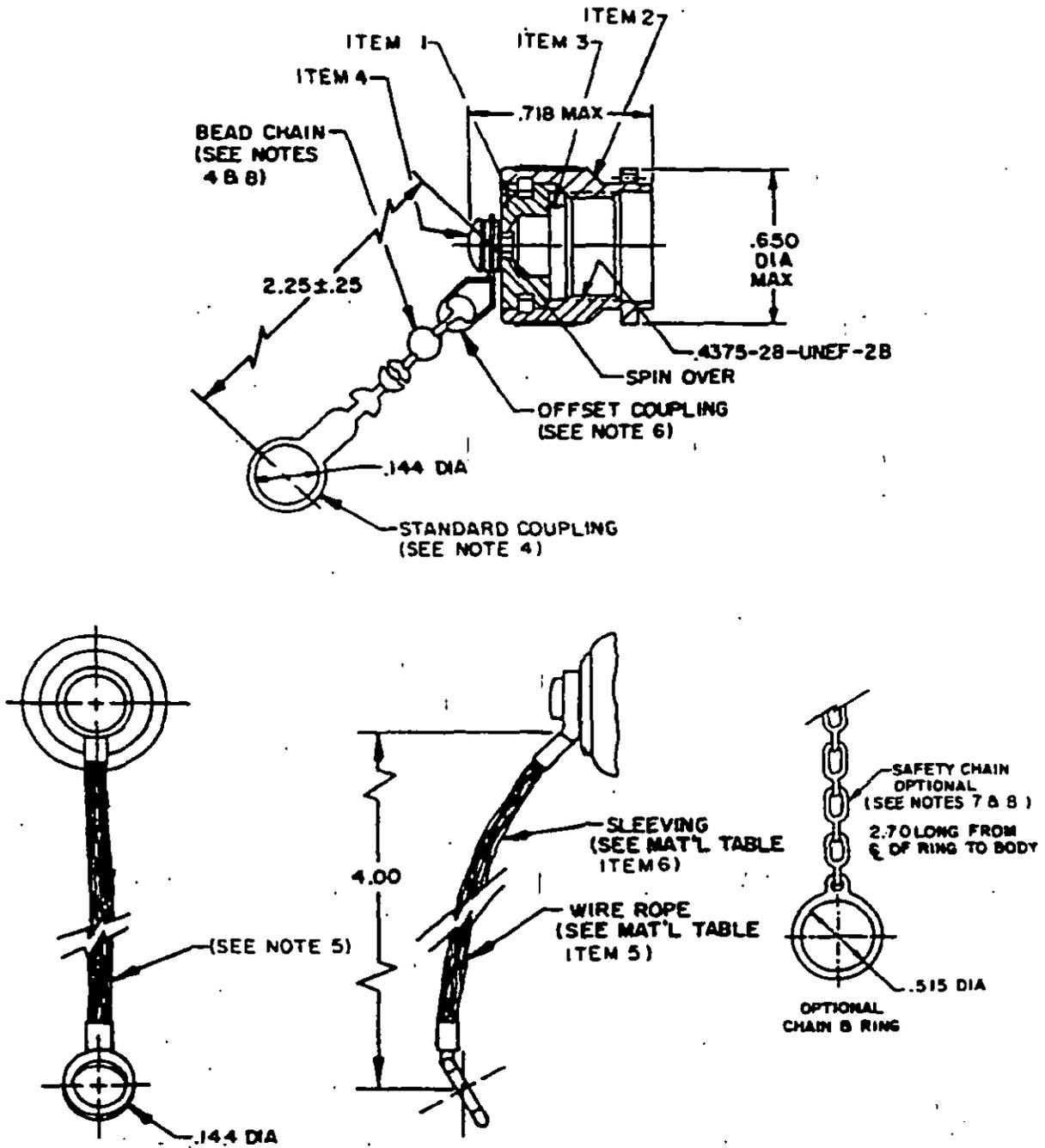


FIGURE 13. M39012/25-0020 cap and chain for TNC female connectors with bead chain.
M39012/25-0021 cap and chain for TNC female connectors with safety chain.
M39012/25-0120 cap and chain for TNC female connectors with wire rope.

Item	Material	Description
1	Brass	Body
2	Brass	Coupling nut
3	Silicone rubber	Gasket
4	Brass	Rivet
5	SST	Wire rope
6	Teflon or nylon or equivalent	Covering

Inches	mm	Inches	mm
.144	3.66	.718	18.24
.25	6.4	2.25	57.2
.4375	11.112	2.70	68.6
.515	13.08	4.00	101.6
.650	16.51		

NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only.
- Unless otherwise specified, tolerances are $\pm .02$ (0.5 mm) for two place decimals and $\pm .005$ (0.13 mm) for three place decimals.
- Standard coupling number 6AD (brass), bead chain number 6 (monel metal or stainless steel), and offset coupling number 6AD (brass), as supplied by the Bead Chain Manufacturing Company, Bridgeport, Connecticut, or equal.
- The bead chain assembly to be finished with nickel plate, in lieu of silver, conforming to class 1, type V of QQ-N-290. (Exception: Parts will pass the corrosion test of MIL-C-39012.) The wire rope shall be specified in MIL-W-83420, type 2, composition B.
- The offset coupling must rotate freely after riveting.
- Safety chain: (Optional) corrosion resistant steel, passivated type II, class 6, trade number 00, in accordance with RR-C-271.
- The chain shall withstand a tensile force as specified. The force shall be applied at a rate of approximately 100 pounds per minute. The applied force shall be 30 pounds for bead chain and 75 pounds for safety chain. The force shall be attached to the hole in the standard coupling.
- Caps shall maintain connector interface free of dust and moisture.
- All undimensioned configurations are for reference only.

FIGURE 13. M39012/25-0020 cap and chain for TNC female connectors with bead chain.
M39012/25-0021 cap and chain for TNC female connectors with safety chain.
M39012/25-0120 cap and chain for TNC female connectors with wire rope - Continued.

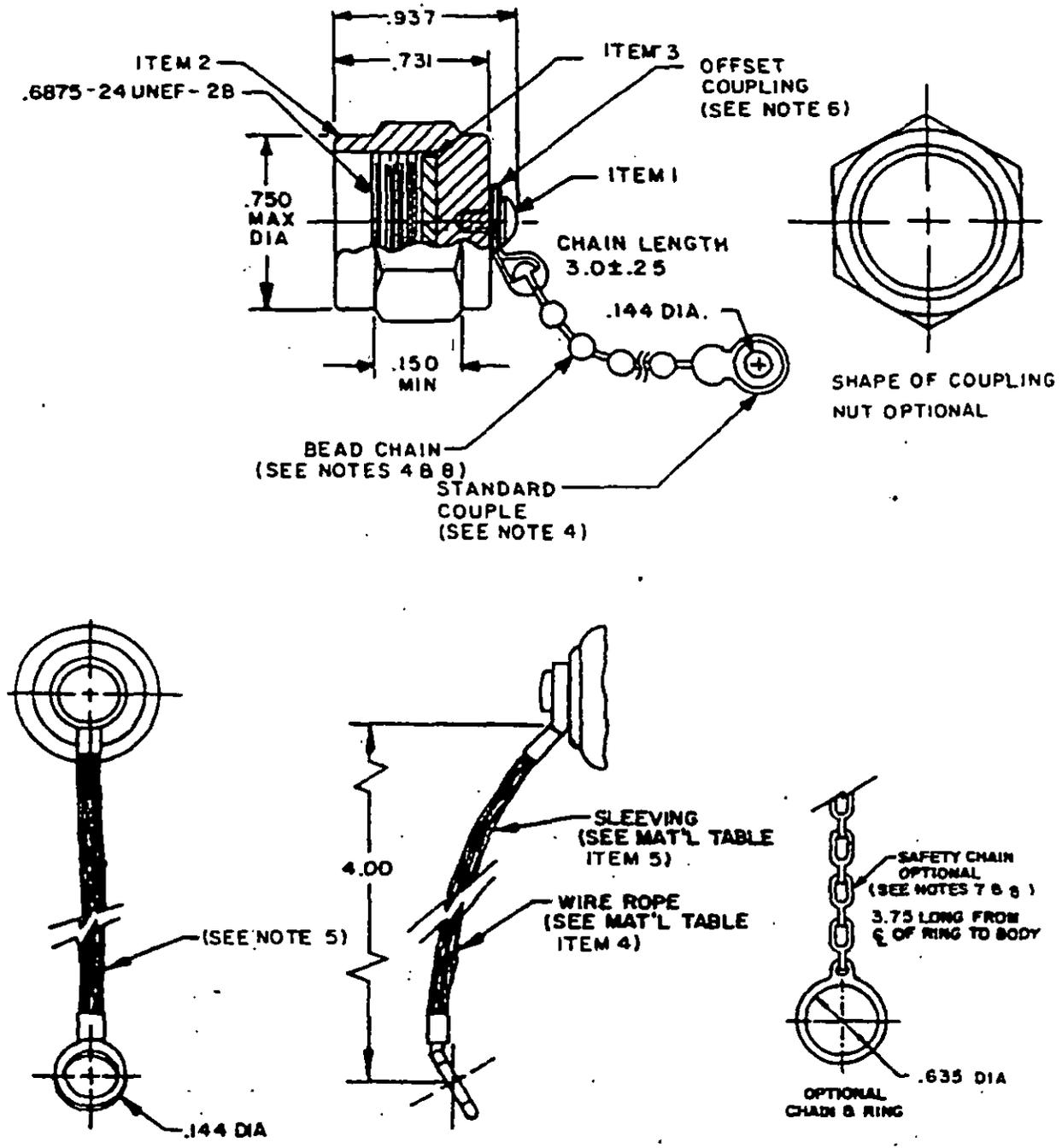


FIGURE 14. M39012/25-0022 cap and chain for series SC female connectors with bead chain.
M39012/25-0023 cap and chain for series SC female connectors with safety chain.
M39012/25-0122 cap and chain for series SC female connectors with wire rope.

Item	Material	Description	Inches	mm
1	Brass	Rivet	.144	3.66
			.150	3.81
2	Brass	Cap	.250	6.35
			.635	16.13
3	Silicone rubber	Gasket	.6875	17.46
			.731	18.57
4	SST	Wire rope	.750	19.05
			.937	23.80
5	Teflon, nylon or equivalent	Covering	3.25	82.55
			3.75	95.25
			4.00	101.60

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .02$ (0.5 mm) for two place decimals and $\pm .005$ (0.13 mm) for three place decimals.
4. Standard coupling number 6AD (brass), bead chain number 6 (monel metal or stainless steel), and offset coupling number 6AD (brass), as supplied by the Bead Chain Manufacturing Company, Bridgeport, Connecticut, or equal.
5. The bead chain assembly to be finished with nickel plate, in lieu of silver, conforming to class 1, type V of QQ-N-290. (Exception: Parts which are fabricated of monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test of MIL-C-39012.) The wire rope shall be specified in MIL-W-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) corrosion resistant steel, passivated type II, class 6, trade number 00, in accordance with RR-C-271.
8. The chain shall withstand a tensile force as specified. The force shall be applied at a rate of approximately 100 pounds per minute. The applied force shall be 30 pounds for bead chain and 75 pounds for safety chain. The force shall be attached to the hole in the standard coupling.
9. Caps shall maintain connector interface free of dust and moisture.

FIGURE 14. M39012/25-0022 cap and chain for series SC female connectors with bead chain.
M39012/25-0023 cap and chain for series SC female connectors with safety chain.
M39012/25-0122 cap and chain for series SC
female connectors with wire rope - Continued.

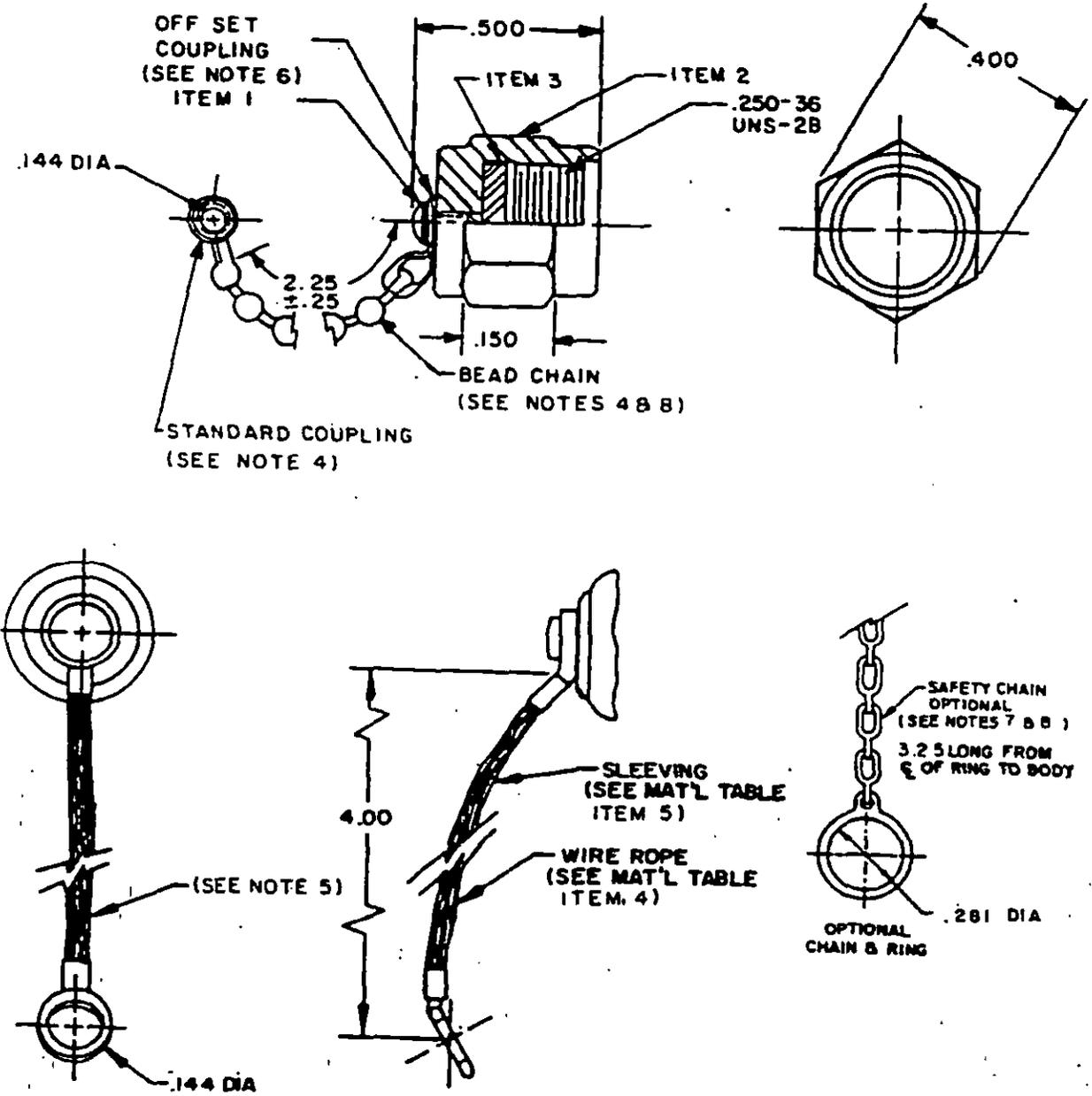


FIGURE 15. M39012/25-3024 cap and chain for series SMA female connectors with bead chain.
M39012/25-3025 cap and chain for series SMA female connectors with safety chain.
M39012/25-3124 cap and chain for series SMA female connectors with wire rope.

Item	Material	Description	Inches	mm
1	Stainless steel	Rivet		
2	Stainless steel	Cap	.144	3.66
3	Silicone rubber	Gasket	.150	3.81
			.250	6.35
4	SST	Wire rope	.281	7.14
			.500	12.70
5	Teflon, nylon or equivalent	Covering	2.25	57.15
			3.25	82.55
			4.00	101.60

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm).
4. Standard coupling number 6AD (brass), bead chain number 6 (monel metal or stainless steel), and offset coupling number 6AD (brass), as supplied by the Bead Chain Manufacturing Company, Bridgeport, Connecticut, or equal.
5. The bead chain assembly to be finished with nickel plate, in lieu of silver, conforming to class 1, type V of QQ-W-290. (Exception: Parts which are fabricated of monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test of MIL-C-39012.) The wire rope shall be specified in MIL-W-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) corrosion resistant steel, passivated type II, class 6, trade number 00, in accordance with RR-C-271.
8. The chain shall withstand a tensile force as specified. The force shall be applied at a rate of approximately 100 pounds per minute. The applied force shall be 30 pounds for bead chain and 75 pounds for safety chain. The force shall be attached to the hole in the standard coupling.
9. Caps shall maintain connector interface free of dust and moisture.

FIGURE 15. M39012/25-3024 cap and chain for series SMA female connectors with bead chain.
M39012/25-3025 cap and chain for series SMA female connectors with safety chain.
M39012/25-3124 cap and chain for series SMA
female connectors with wire rope - Continued.

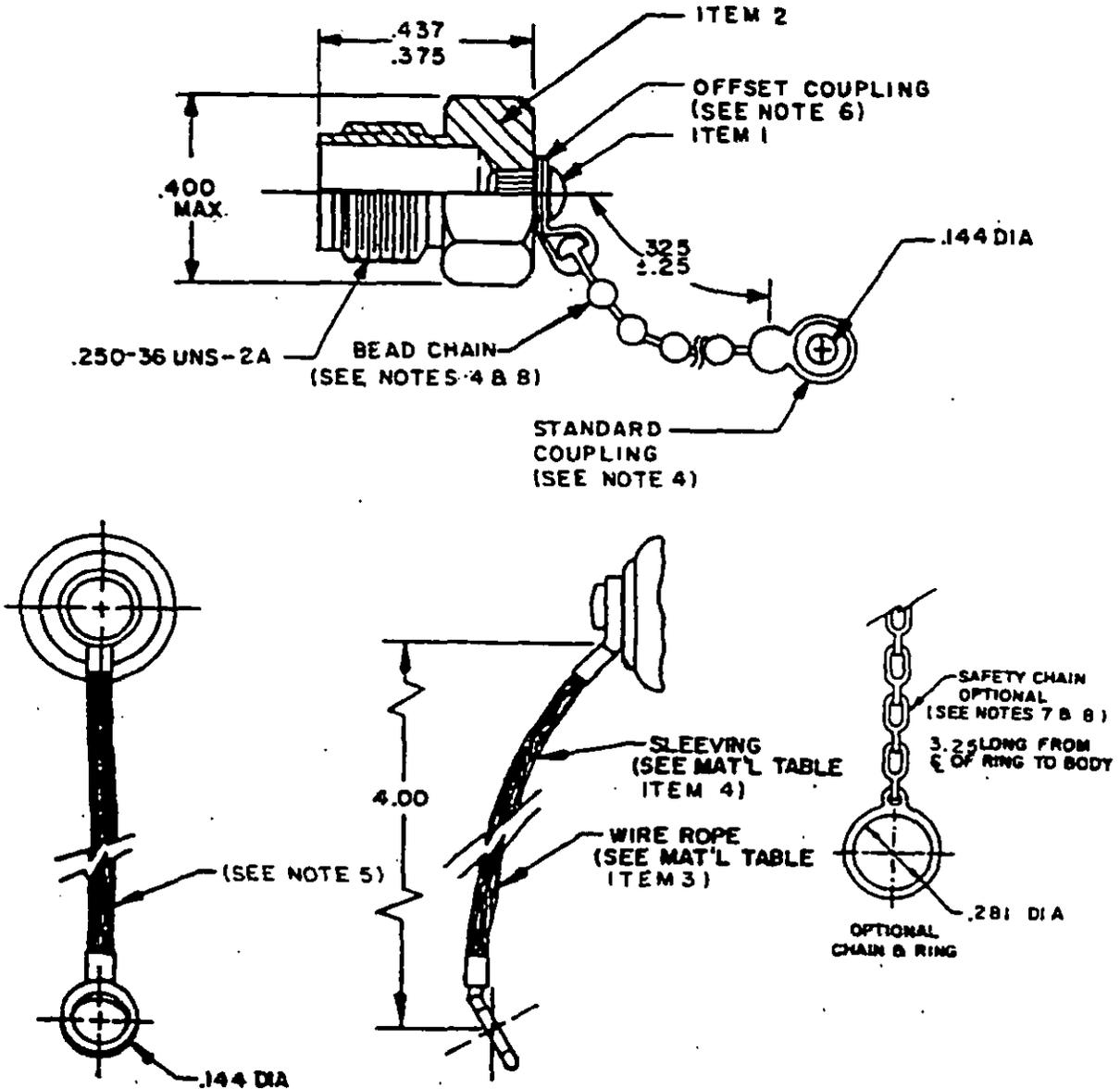


FIGURE 16. M39012/25-3026 cap and chain for series SMA male connectors with bead chain.
M39012/25-3027 cap and chain for series SMA male connectors with safety chain.
M39012/25-3126 cap and chain for series SMA male connectors with wire rope.

Item	Material	Description	Inches	mm
1	Stainless steel	Rivet	.144	3.66
2	Stainless steel	Body	.250	6.35
3	SST	Wire rope	.281	7.14
4	Teflon, nylon or equivalent	Covering	.325	8.26
			.375	9.53
			.400	10.16
			.437	11.10

NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only.
- Unless otherwise specified, tolerance is $\pm .005$ (0.13 mm).
- Standard coupling number 6AD (brass), as supplied by the Bead Chain Manufacturing Company, Bridgeport, Connecticut, or equal.
- The bead chain assembly to be finished with nickel plate, in lieu of silver, conforming to class 1, type V of QQ-N-290. (Exception: Parts which are fabricated of monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test of MIL-C-39012.) The wire rope shall be specified in MIL-W-83420, type 2, composition B.
- The offset coupling must rotate freely after riveting.
- Safety chain: (Optional) corrosion resistant steel, passivated type II, class 6, trade number 00, in accordance with RR-C-271.
- The chain shall withstand a tensile force as specified. The force shall be applied at a rate of approximately 100 pounds per minute. The applied force shall be 30 pounds for bead chain and 75 pounds for safety chain. The force shall be attached to the hole in the standard coupling.
- Caps shall maintain connector interface free of dust and moisture.

FIGURE 16. M39012/25-3026 cap and chain for series SMA male connectors with bead chain.
M39012/25-3027 cap and chain for series SMA male connectors with safety chain.
M39012/25-3126 cap and chain for series SMA
male connectors with wire rope - Continued.

REQUIREMENTS:

Material: See table I.

TABLE I. Materials.

Component material	Applicable specification
Brass	QQ-B-613 or QQ-B-626
Copper beryllium	QQ-C-530 or QQ-C-533
Phosphor bronze	QQ-B-750
Soft copper	QQ-C-576
Aluminum	QQ-A-225/6
Steel-corrosion resisting	QQ-S-763
Flux	D-F-499
TFE fluorocarbon	L-P-403
Silicon rubber	ZZ-R-765 or MIL-R-5847
Brazing alloy silver	QQ-B-654
Soft solder	QQ-S-571

Design and construction: See figures 1 through 16.

Part or Identifying Number (PIN): M39012/25-(dash number from table II).

Corrosion (salt spray): Method 101, test condition B, MIL-STD-202.

The salt solution concentration shall be 5 percent.

Special detail: After exposure, hardware shall be washed, shaken and lightly brushed as specified in method 101 of MIL-STD-202, and then permitted to dry for 24 hours at 40°C. Hardware shall then be examined for evidence of corrosion and pitting and ease of coupling.

Qualification by similarity: Connector manufacturers may qualify all applicable PIN's for dust caps by similarity if they submit any representative sample of a bead chain, safty chain, and wire rope to applicable qualification testing. A manufacturer must be qualified to that connector series and material in order to be approved by similarity.

Cross reference data: See tables II and III.

TABLE II. Cross reference for hardware to connectors and cable. 1/

PIN 2/	Figure number	Item name	Applicable chain	Applicable cable	Applicable connector series
M39012/25-0001	1	Cover	Bead	---	All series C female connectors
M39012/25-0002			Safety	---	
M39012/25-0003	2	Cover	Bead	---	All series C male connectors
M39012/25-0004			Safety	---	
M39012/25-0005	3	Shield	---	M17/6-RG11 M17/74-RG213 and M17/163-00001 M17/75-RG214 and M17/164-00001 M17/77-RG216	
M39012/25-0006	4	Cover	Bead	---	All series BNC female connectors
M39012/25-0007			Safety	---	
M39012/25-0008	5	Cover	Bead	---	All series BNC male connectors
M39012/25-0009			Safety	---	
M39012/25-0010	6	Shield	---	M17/84-RG223 and M17/167-00001 M17/28-RG028 and M17/155-00001	
M39012/25-0011	7	Cap and chain	Bead	---	All series N female connectors
M39012/25-0012			Safety	---	
M39012/25-0013	8A 8B	Armor clamp	---	M17/74-RG215 M17/6-RG12	Series C and N connectors using applicable cables and 11/16 accessory thread
M39012/25-0014	9A 9B	Armor clamp	---	M17/79-RG219	
M39012/25-0015	10	Cap	---	---	All series BNC female connectors

See footnotes at end of table.

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TABLE 11. Cross reference for hardware to connectors and cable 1/ - Continued.

PIN 2/	Figure number	Item name	Applicable chain	Applicable cable	Applicable connector series
M39012/25-0016	11	Shorting plug	Bead	---	For shorting series BNC female connectors
M39012/25-0017			Safety	---	
M39012/25-0018	12	Cap	Bead	---	All series TNC male connectors
M39012/25-0019			Safety	---	
M39012/25-0020	13	Cap	Bead	---	All series TNC female connectors
M39012/25-0021			Safety	---	
M39012/25-0022 M39012/25-0023 M39012/25-0122	14	Cap	Bead Safety Wire rope	---	All series SC female connectors
M39012/25-0024 M39012/25-0025 M39012/25-0124			Bead Safety Wire rope	---	
M39012/25-0026 M39012/25-0027 M39012/25-0126	16	Plug	Bead Safety Wire rope	---	All series SMA male connectors
			Bead Safety Wire rope	---	

1/ This hardware previously covered by MIL-C-71, MIL-C-3989, MIL-C-3608, REA49131, REB49047, REA49049, and REB49068.

2/ The dash number (-0001) in the PIN is sequentially assigned and is used to designate the material of the connector. The four-digit dash numbers as shown (-0001, -0002) designates the material as brass. Phosphor bronze is designated by insertion of 1 as the first digit of the four-digit number (-1001, -1002 etc.). A 2 is inserted to designate aluminum (-2001, -2002 etc.), and a 3 shall be inserted to designate corrosion resistant steel (-3001, -3002 etc.).

TABLE III. Cross reference PIN to superseded type designation.

PIN	Superseded type designation
M39012/25-0001	MX-1142A/U
M39012/25-0003	MX-1143A/U
M39012/25-0005	MX-1144/U
M39012/25-0006	CW-123A/U
M39012/25-0008	CW-282/U
M39012/25-0010	MX-195A/U
M39012/25-0011	MX-913/U
M39012/25-0013	MX-1286/U
M39012/25-0014	MX-1441/U
M39012/25-0015	CW-155A/U
M39012/25-0016	CW-159/U
M39012/25-0017	

Revision letters are not used to denote changes due to the extensiveness of the changes.

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 85

Review activities:

Army - AR, EA, MI
Navy - SH
Air Force - 11, 17, 99
DLA - ES

User activities:

Army - AT, AV
Navy - AS, MC, OS
Air Force - 19

Preparing activity:
Army - CR

Agent:
DLA - ES

(Project 5935-3828)