

MIL-PRF-39012/25F  
 3 March 2009  
 SUPERSEDING  
 MIL-C-39012/25E  
 23 July 1991

DETAIL SPECIFICATION SHEET

CONNECTORS, COAXIAL, RADIO FREQUENCY,  
 (HARDWARE FOR RADIO FREQUENCY 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 MIL-PRF-39012.

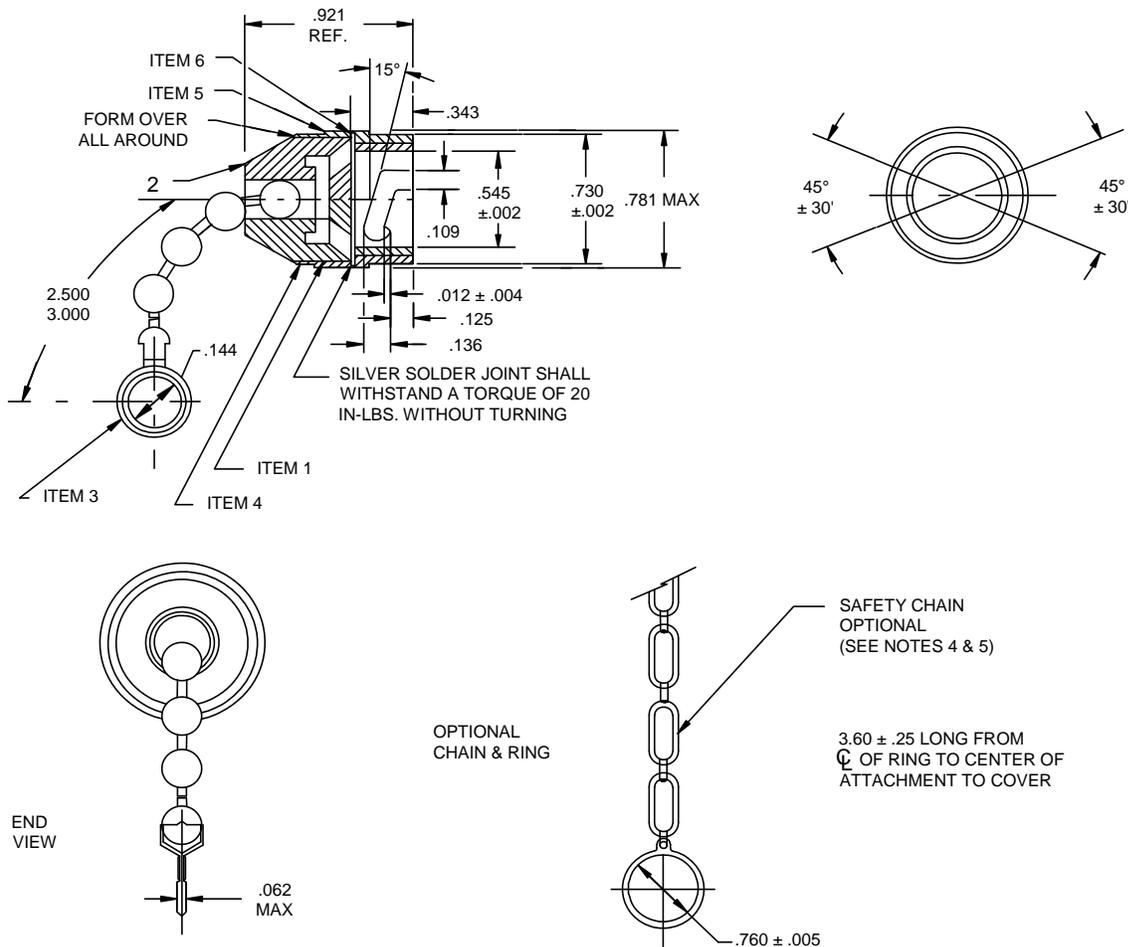
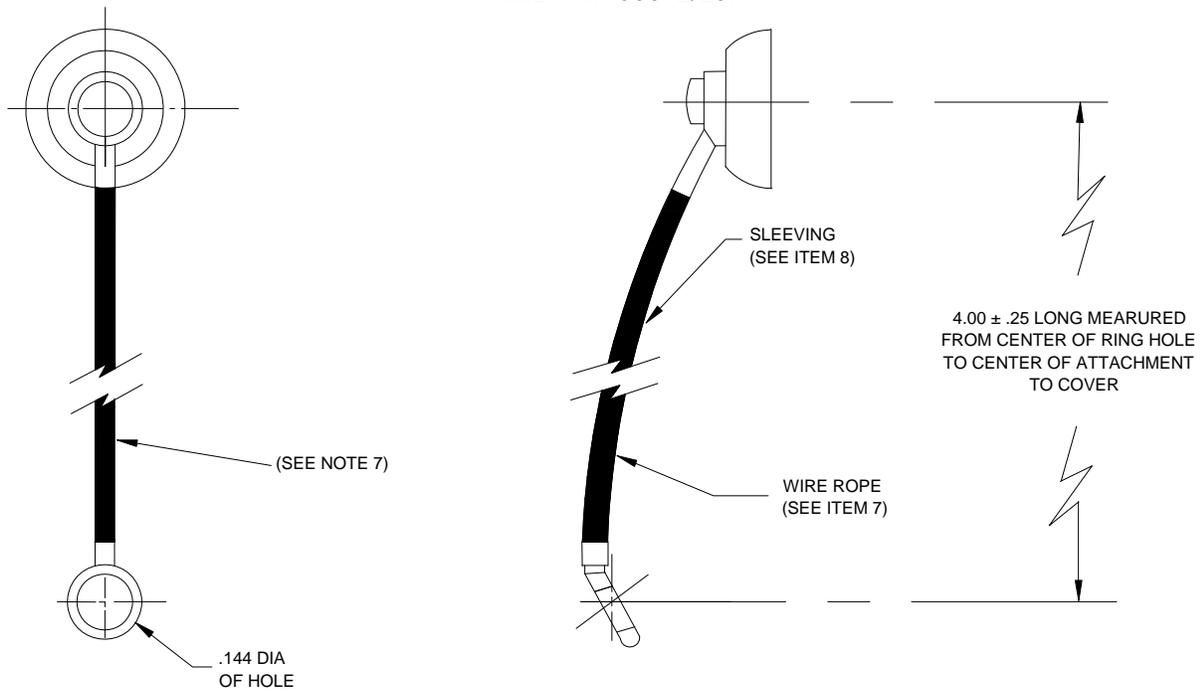


FIGURE 1. M39012/25-X001 cover for series C female connectors with bead chain.  
M39012/25-X002 cover for series C female connectors with safety chain.  
M39012/25-X101 cover for series C female connectors with wire rope.

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Item	Material	Description				
1	Silicon rubber	Gasket				
2	Brass	Disc	Inches	mm	Inches	mm
			.002	0.05	.545	13.84
3	Steel	Chain assembly	.004	0.10	.730	18.54
			.005	0.13	.760	19.30
4	Silicone rubber	V-groove gasket	.012	0.30	.781	19.84
			.062	1.57	.921	23.39
5	Brass	Coupling sleeve	.109	2.77	2.50	63.5
6	Brass	Bayonet sleeve	.125	3.18	3.00	76.2
			.136	3.45	3.60	91.4
			.144	3.66	4.00	101.6
7	SST	Wire rope	.25	6.3		
8	Teflon or nylon or equivalent	Covering				

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is  $\pm 0.005$  inch (0.13 mm).
4. Safety chain: (Optional) passivated corrosion resistant steel in accordance with MIL-PRF-39012.
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-DTL-83420, type 2, composition B.

FIGURE 1. M39012/25-X001 cover for series C female connectors with bead chain.  
M39012/25-X002 cover for series C female connectors with safety chain.  
M39012/25-X101 cover for series C female connectors with wire rope - Continued.

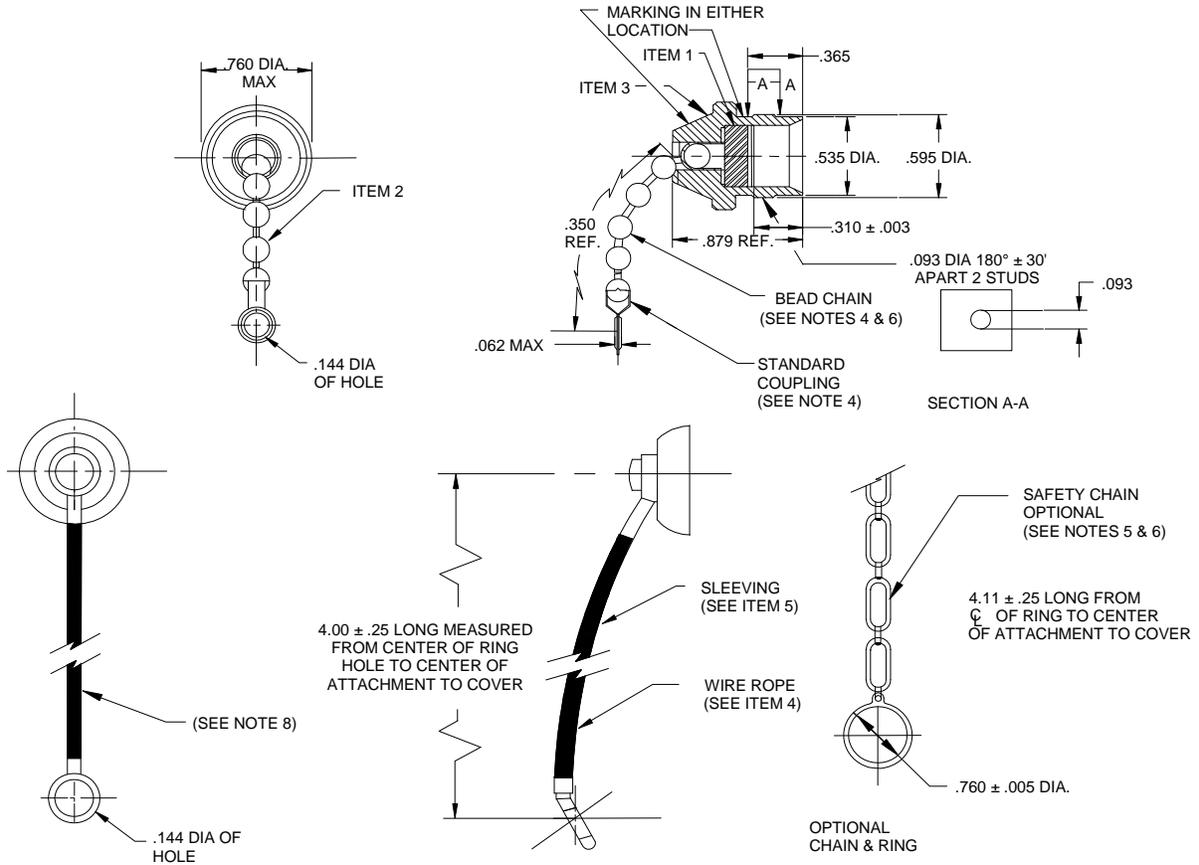


FIGURE 2. M39012/25-X003 cover for series C male connectors with bead chain.  
M39012/25-X004 cover for series C male connectors with safety chain.  
M39012/25-X103 cover for series C male connectors with wire rope.

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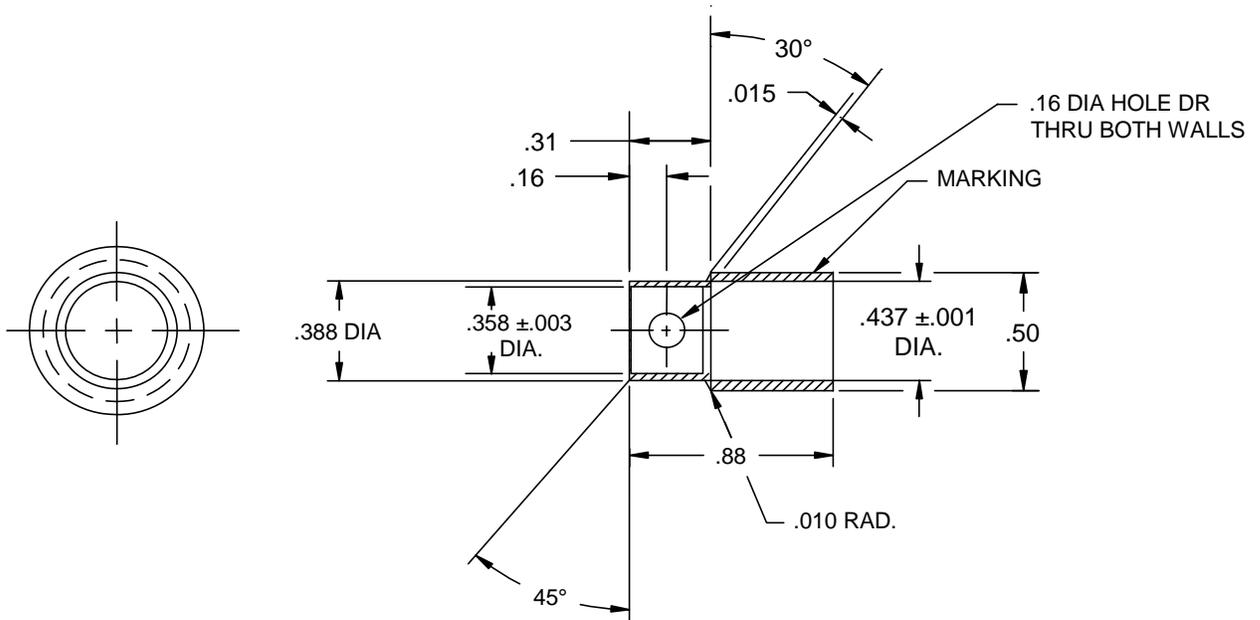
Item	Material	Description				
1	Silicone rubber	Gasket	Inches	mm	Inches	mm
2	Steel	Chain assembly	.003	0.08	.595	15.11
			.005	0.13	.760	19.30
3	Brass	Body	.062	1.57	.897	22.78
			.093	2.36	3.50	88.90
4	SST	Wire rope	.144	3.66	4.00	101.6
			.25	6.3	4.110	104.39
5	Teflon or nylon or equivalent	Covering	.310	7.87		
			.535	13.59		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is  $\pm 0.005$  inch (0.13 mm).
4. Standard coupling brass, bead chain monel metal or stainless steel, and sleeve.
5. Safety chain: (Optional) passivated corrosion resistant steel in accordance with MIL-PRF-39012.
6. 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.
7. Bayonets of connector shall lock in bottom slot and shall maintain the connector interface free of dust and moisture.
8. The wire rope shall be specified in MIL-DTL-83420, type 2, composition B.

FIGURE 2. M39012/25-X003 cover for series C male connectors with bead chain.  
M39012/25-X004 cover for series C male connectors with safety chain.  
M39012/25-X103 cover for series C male connectors with wire rope – Continued.

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Inches	mm	Inches	mm
.001	0.03	.358	9.09
.003	0.08	.388	9.86
.010	0.25	.437	1.10
.015	0.38	.50	12.7
.16	4.1	.88	22.3
.25	6.3		
.31	7.9		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm .02$  inch (0.5 mm) for two place decimals,  $\pm .005$  inch (0.13 mm) for three place decimals, and  $\pm 30'$  on angles.
4. The material shall be brass. Silver plate shall be in accordance with MIL-PRF-39012, .0001 inch (0.003 mm) thick minimum.

FIGURE 3. M39012/25-0005 shield (Silver plated connectors only).

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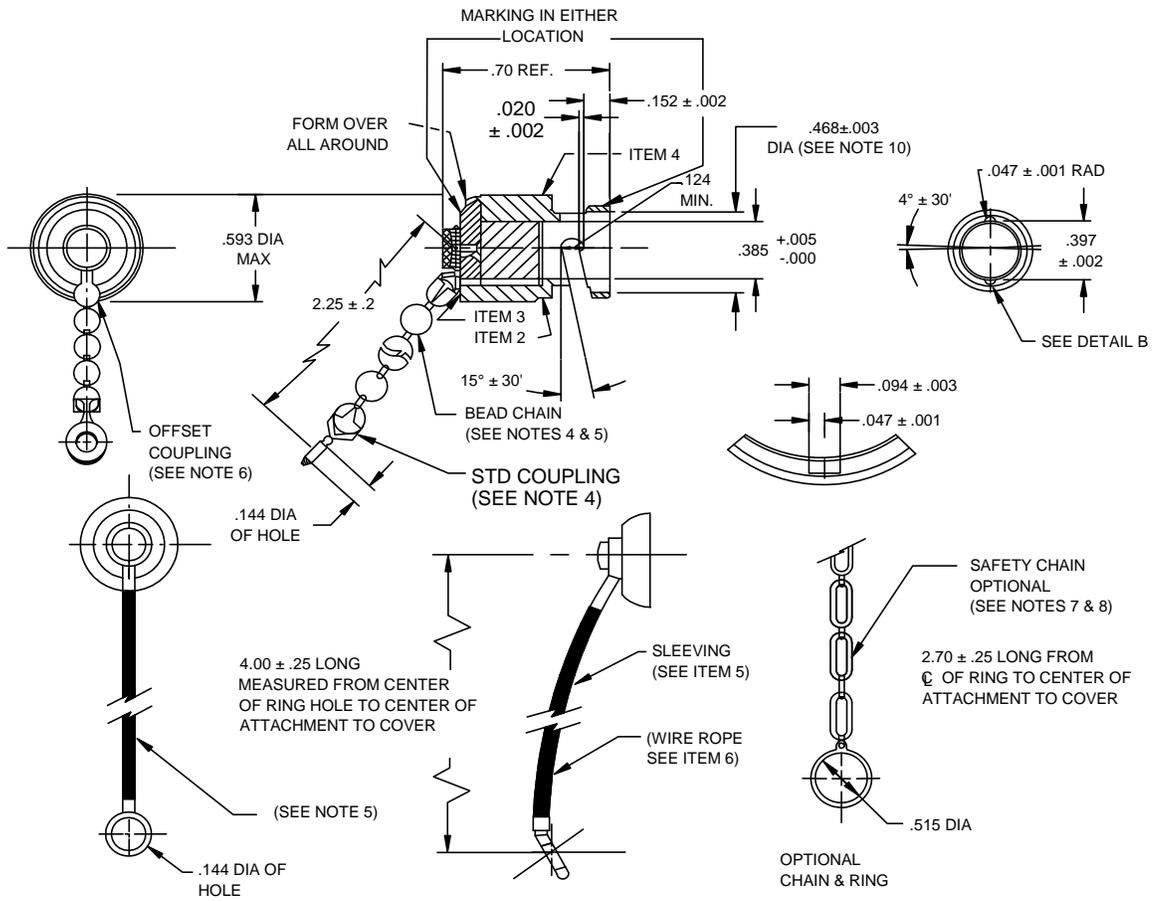


FIGURE 4. M39012/25-X006 cover for series BNC female connectors with bead chain.  
M39012/25-X007 cover for series BNC female connectors with safety chain.  
M39012/25-X106 cover for series BNC female connectors with wire rope.

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Item	Material	Description				
1	Brass	Rivet	Inches mm		Inches mm	
2	Silicone rubber	Pad	.001	0.03	.385	9.78
3	Brass	Disc, body	.002	0.05	.397	10.08
4	Brass	Sleeve	.003	0.08	.468	11.89
5	SST	Wire rope	.005	0.13	.515	13.08
6	Teflon, nylon or equivalent	Covering	.020	0.51	.593	15.06
			.047	1.19	.70	17.9
			.094	2.39	2.250	57.15
			.124	3.15	2.700	68.58
			.144	3.66	4.00	101.6
			.25	6.3		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is  $\pm 0.005$  inch (0.13 mm).
4. Standard coupling brass, bead chain monel metal or stainless steel, and offset coupling, brass.
5. The bead chain to be finished with nickel plate, in-lieu-of silver, conforming to MIL-PRF-39012. (Exception: Parts which are fabricated with monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test as specified in MIL-PRF-39012.). The wire rope shall be specified in MIL-DTL-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) passivated corrosion resistant steel, in accordance with MIL-PRF-39012.
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-X006 cover for series BNC female connectors with bead chain.  
M39012/25-X007 cover for series BNC female connectors with safety chain.  
M39012/25-X106 cover for series BNC female connectors with wire rope – Continued.

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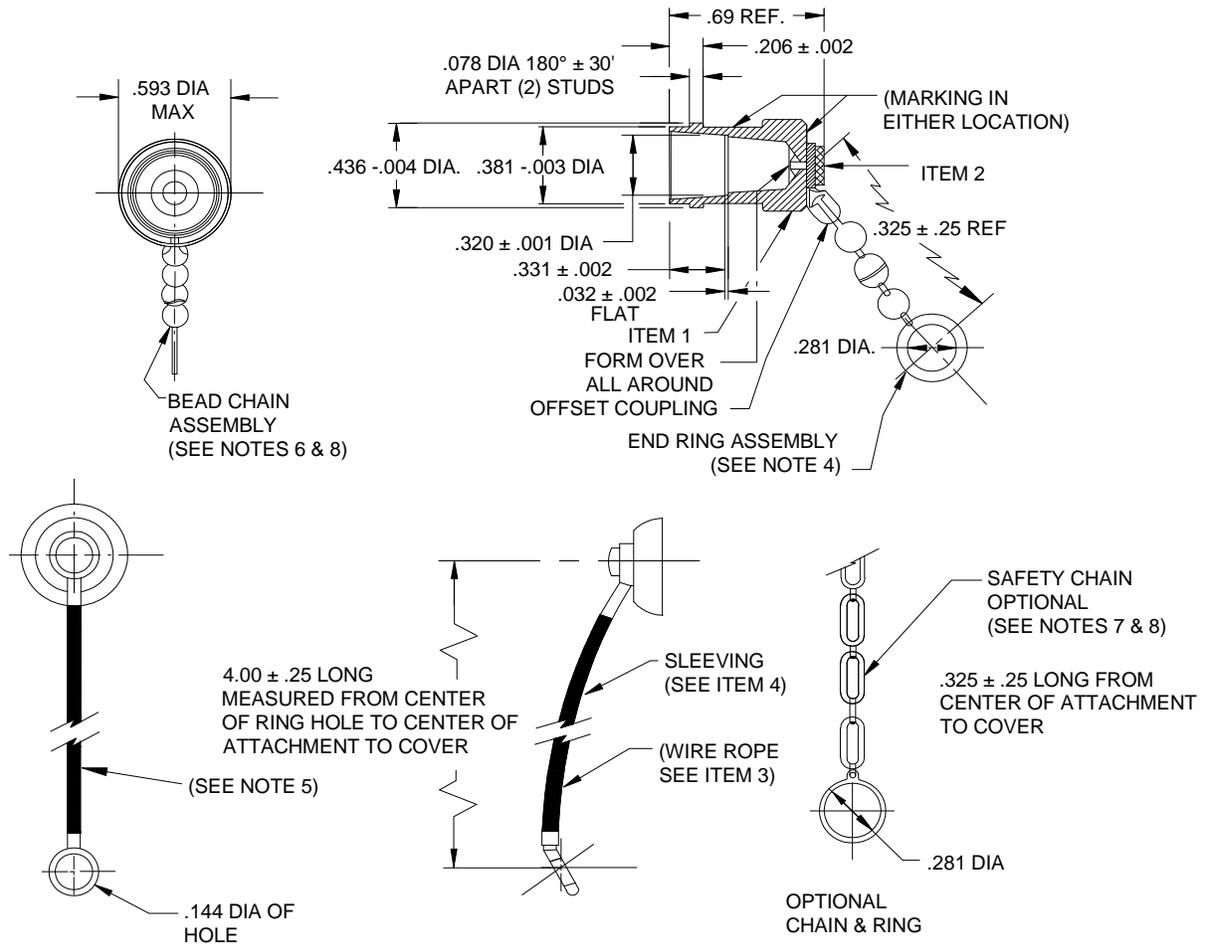


FIGURE 5. M39012/25-X008 cover for series BNC male connectors with bead chain.  
M39012/25-X009 cover for series BNC male connectors with safety chain.

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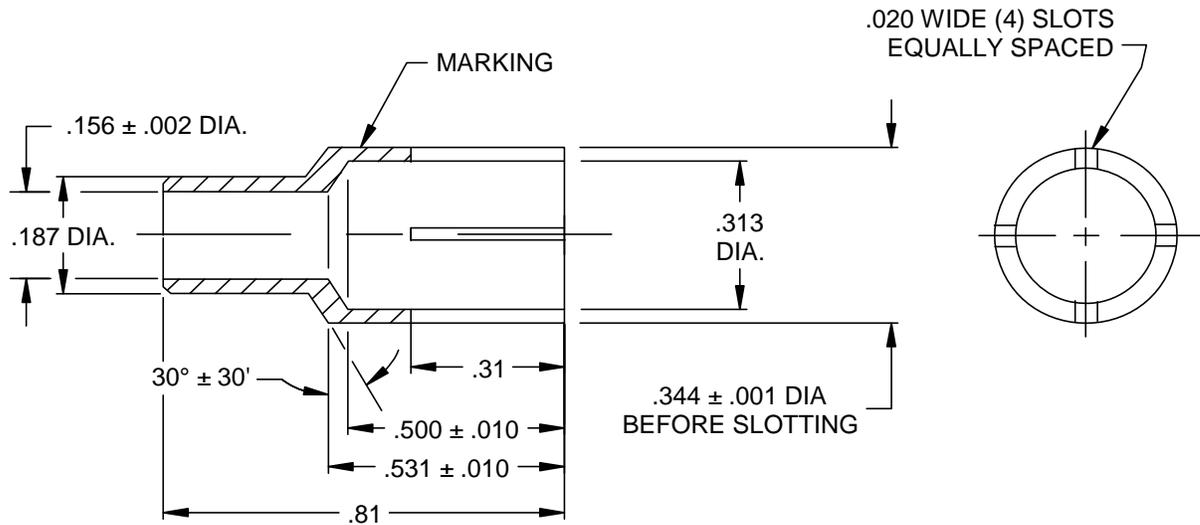
Item	Material	Description
1	Brass	Body
2	Brass	Rivet
3	SST	Wire rope
4	Teflon, nylon or equivalent	Covering

Inches		mm	
.001	0.03	.281	7.14
.002	0.05	.320	8.13
.003	0.08	.331	8.41
.004	0.10	.381	9.68
.032	0.81	.436	11.07
.078	1.98	.593	15.06
.144	3.66	.69	17.5
.206	5.23	3.25	82.55
.25	6.3	4.00	101.6

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm .02$  inch (0.5 mm) for two place decimals and  $\pm .005$  Inch (0.13 mm) for three place decimals.
4. End ring assembly brass, bead chain monel metal or stainless steel, and offset coupling, brass.
5. The bead chain to be finished with nickel plate, in-lieu-of silver, conforming to MIL-PRF-39012. (Exception: Parts which are fabricated with monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test as specified in MIL-PRF-39012.). The wire rope shall be specified in MIL-DTL-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) passivated corrosion resistant steel, in accordance with MIL-PRF-39012.
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.

FIGURE 5. M39012/25-X008 cover for series BNC male connectors with bead chain.  
M39012/25-X009 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
.25	6.3		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm .02$  inch (0.5 mm) for two place decimals,  $\pm .005$  inch (0.13 mm) for three place decimals and  $\pm 30'$  on angles.
4. The material shall be brass. Silver plating shall be in accordance with MIL-PRF-39012, .0001 inch (0.003 mm) thick, minimum.

FIGURE 6. M39012/25-0010 shield for series BNC receptacles (Silver plated connectors only).

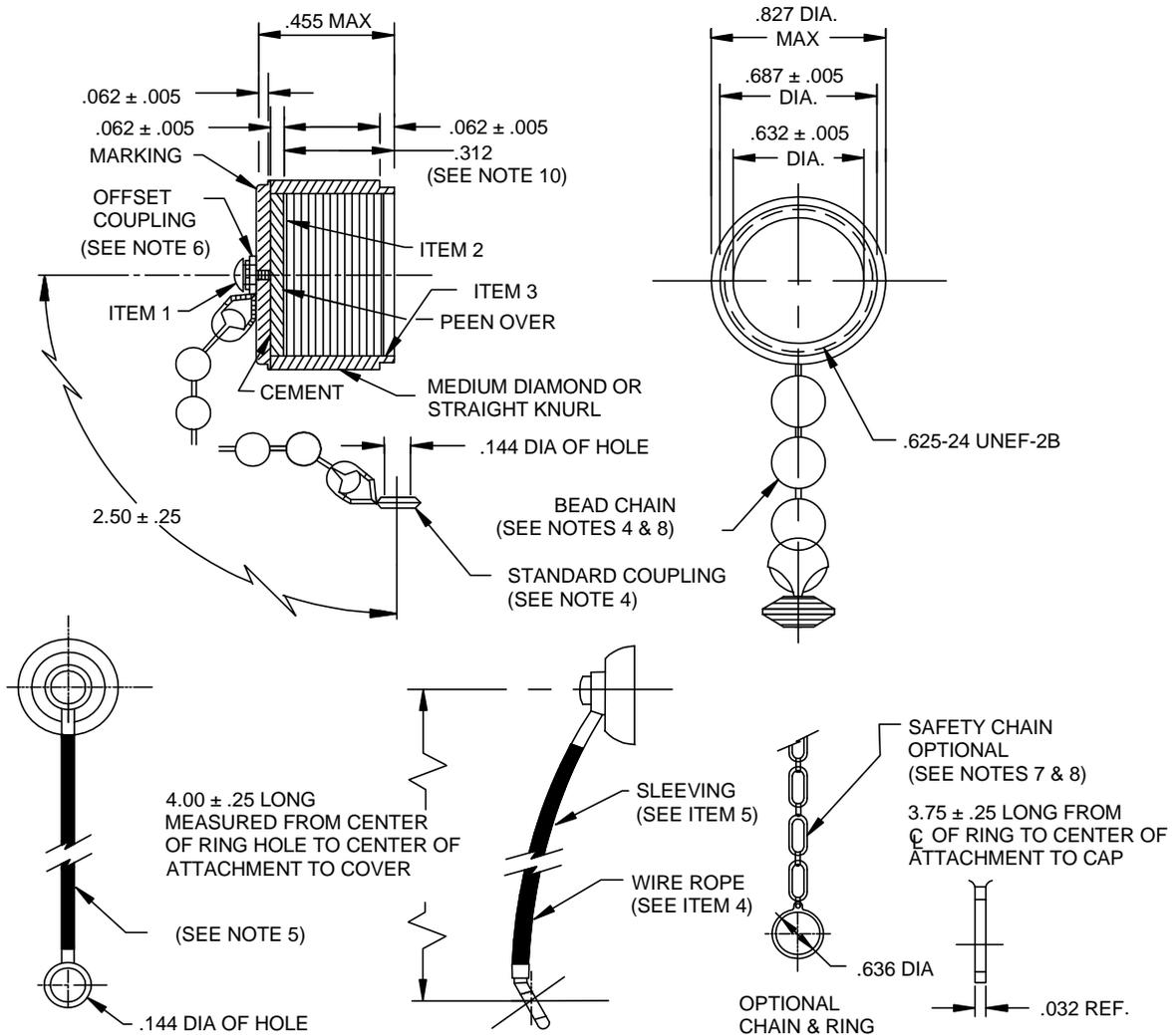


FIGURE 7. M39012/25-X011 cap and chain for series N female connectors with bead chain.  
M39012/25-X012 cap and chain for series N female connectors with safety chain.  
M39012/25-X111 cap and chain for series N female connectors with wire rope.

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

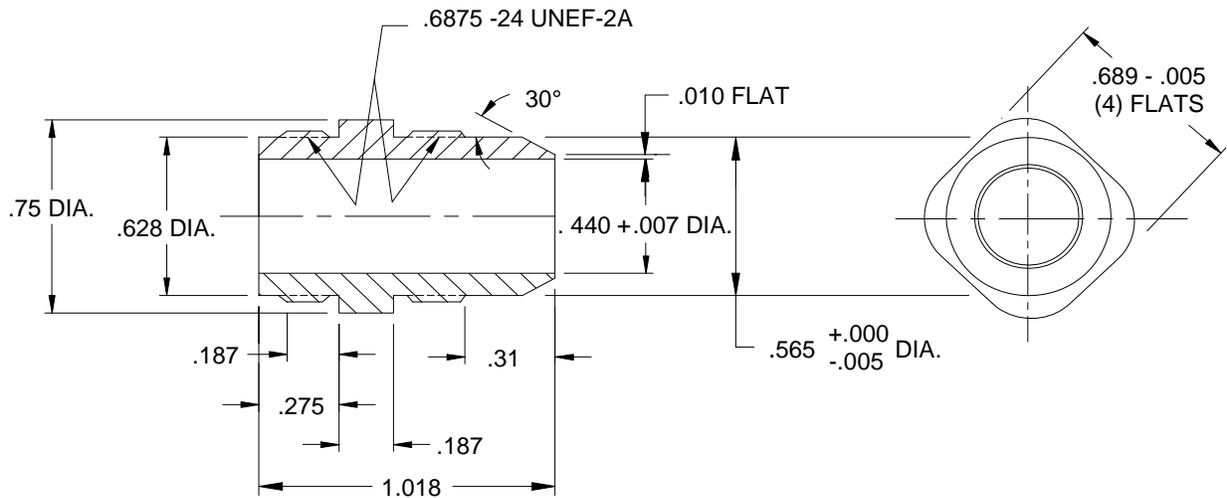
Inches		mm	
.005	0.13	.632	16.05
.062	1.57	.635	16.13
.144	3.66	.687	17.45
.25	6.3	.827	21.01
.312	7.92	2.50	63.5
.455	11.56	3.75	95.2
.625	15.87	4.00	101.6

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is  $\pm .005$  inch (0.13 mm).
4. Standard coupling brass.
5. The bead chain to be finished with nickel plate, in-lieu-of silver, conforming to MIL-PRF-39012. (Exception: Parts which are fabricated with monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test as specified in MIL-PRF-39012.). The wire rope shall be specified in MIL-DTL-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) passivated corrosion resistant steel, in accordance with MIL-PRF-39012.
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 from dust and moisture.
10. This dimension is to the end of cap threads.

FIGURE 7. M39012/25-X011 cap and chain for series N female connectors with bead chain.  
M39012/25-X012 cap and chain for series N female connectors with safety chain.  
M39012/25-X111 cap and chain for series N female connectors with wire rope – Continued.

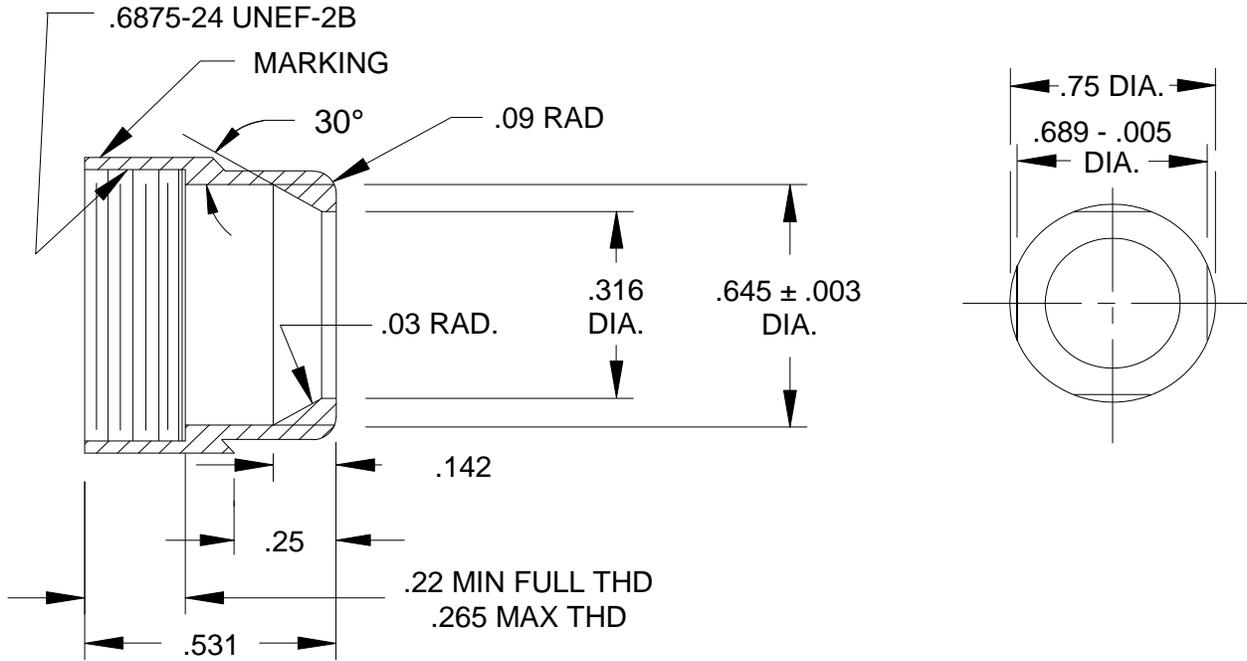
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Inches	mm	Inches	mm
.005	0.13	.440	11.18
.007	0.18	.565	14.35
.010	0.25	.628	15.95
.062	1.57	.689	17.50
.187	4.75	.750	19.05
.275	6.99	1.018	25.86
.310	7.87		

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

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Silver plated connectors only

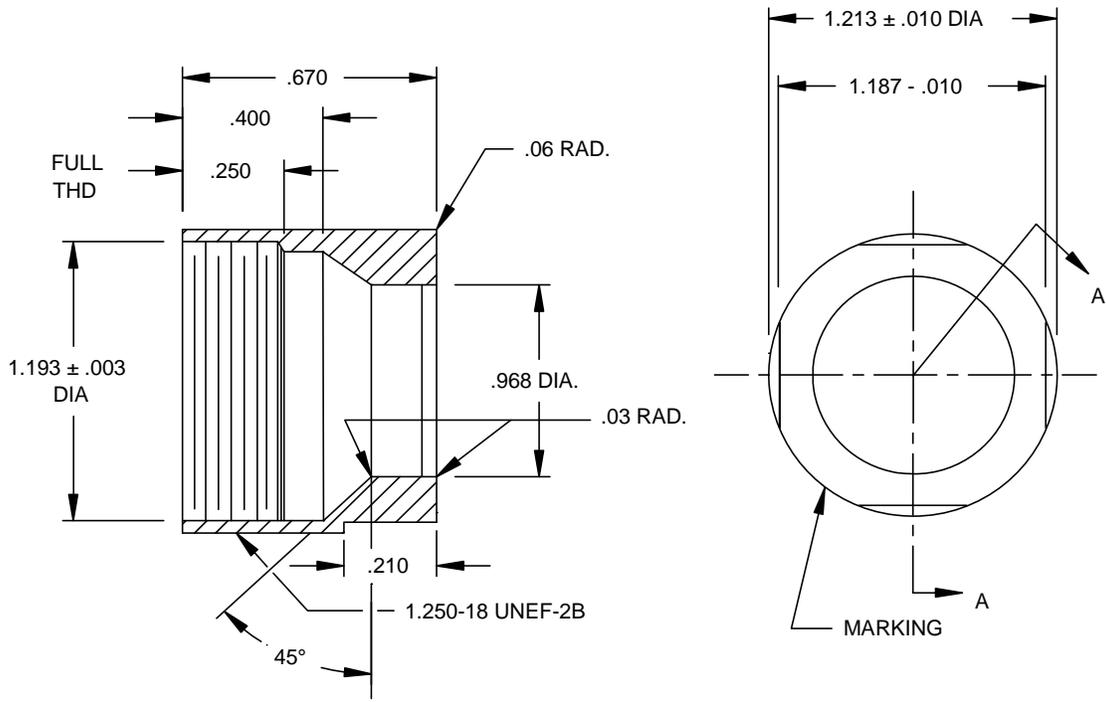
Inches	mm	Inches	mm
.003	0.08	.265	6.73
.005	0.13	.516	13.11
.03	0.8	.531	13.49
.09	2.3	.645	16.38
.142	3.61	.689	17.50
.22	5.6	.750	19.05
.25	6.3		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm .02$  inch (0.5 mm) for two place decimals,  $\pm .005$  inch (0.13 mm) for three place decimals and  $\pm 30'$  on angles.
4. The material shall be brass. Silver plating shall be in accordance with MIL-PRF-39012, .0001 inch (0.003 mm) thick, minimum.

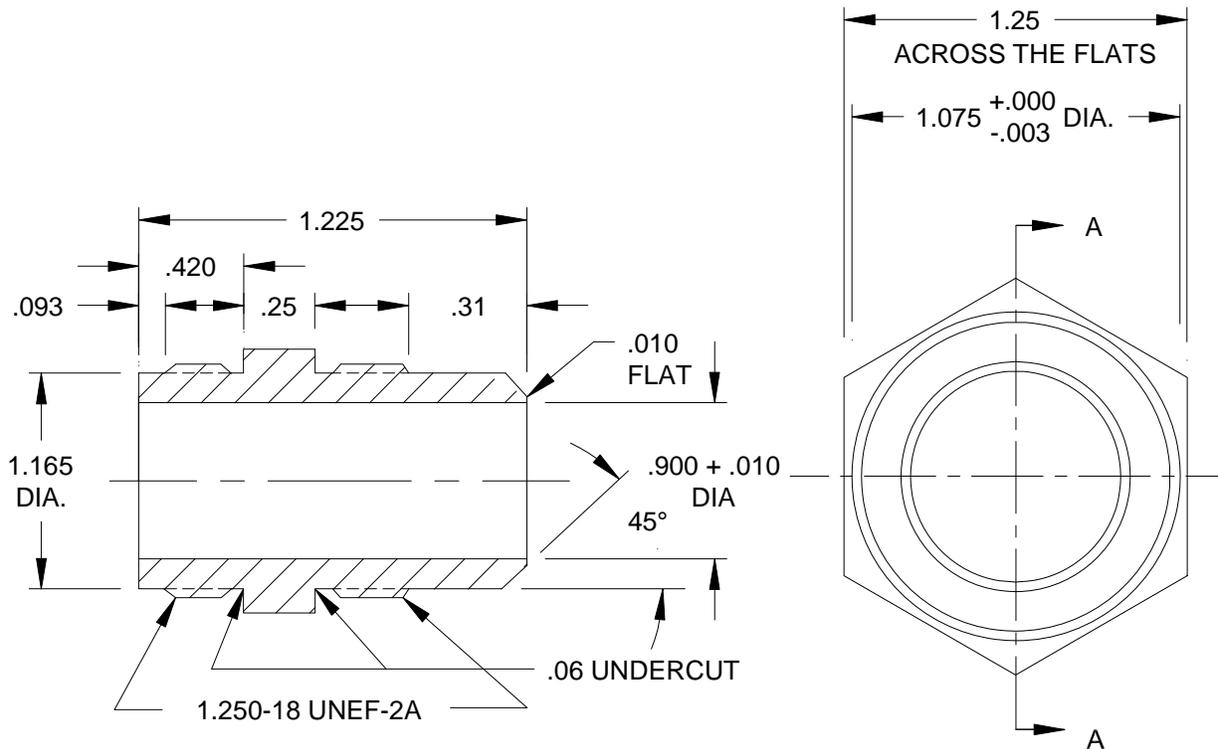
FIGURE 8. M39012/25-0013 armor clamp for M17/74-RG215 and M17/6-RG12 cable – Continued.

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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 for silver plated connectors only.



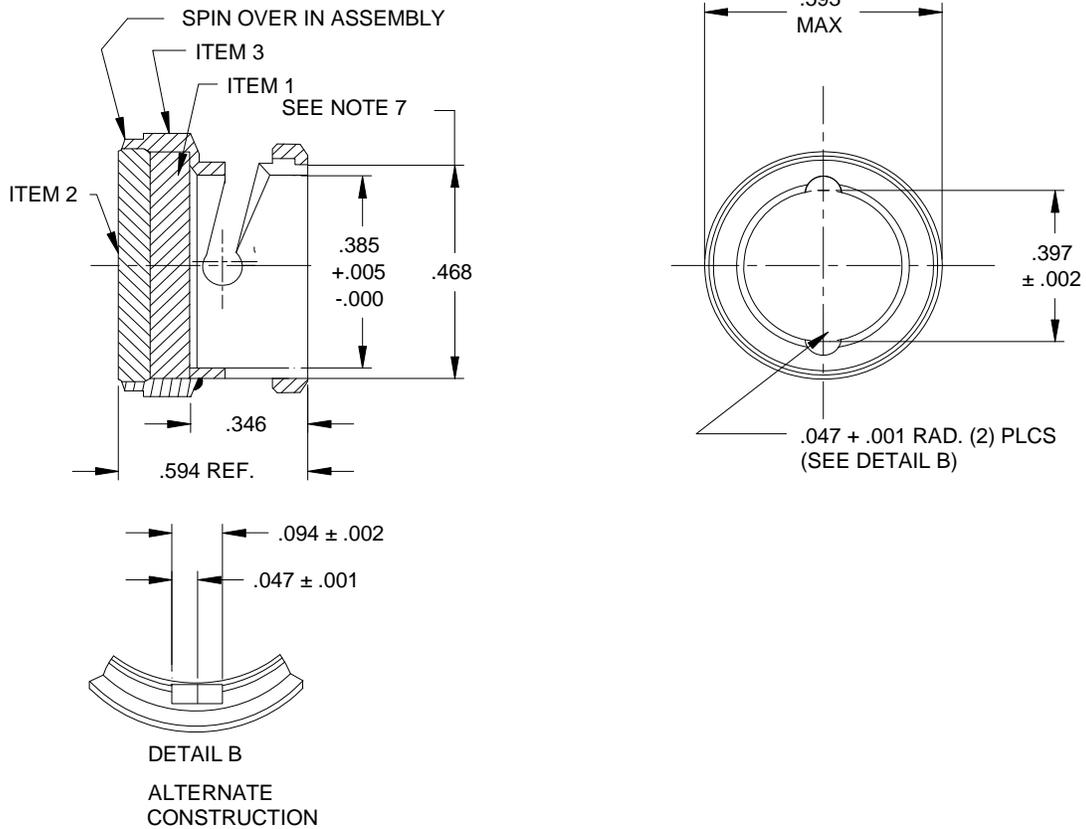
Inches	mm	Inches	mm
.005	0.13	.900	22.86
.010	0.25	1.075	27.31
.06	1.5	1.125	28.58
.093	2.36	1.165	29.59
.250	6.35	1.225	31.12
.310	7.87		
.420	10.67		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm .02$  inch (0.5 mm) for two place decimals,  $\pm .005$  inch (0.13 mm) for three place decimals and  $\pm 30'$  on angles.
4. The material shall be brass. Silver plating shall be in accordance with MIL-PRF-39012, .0001 inch (0.003 mm) thick, minimum.

FIGURE 9. M39012/25-0014 armor clamp for M17/79-RG219 cable for silver plated connectors only – Continued.

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

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

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm .02$  inch (0.5 mm) for two place decimals,  $\pm .005$  inch (0.13 mm) for three place decimals and  $\pm 30'$  on angles.
4. Bayonets of connector shall lock in bottom slot and shall maintain the connector interface free from 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-X015 cap for series BNC female connectors.

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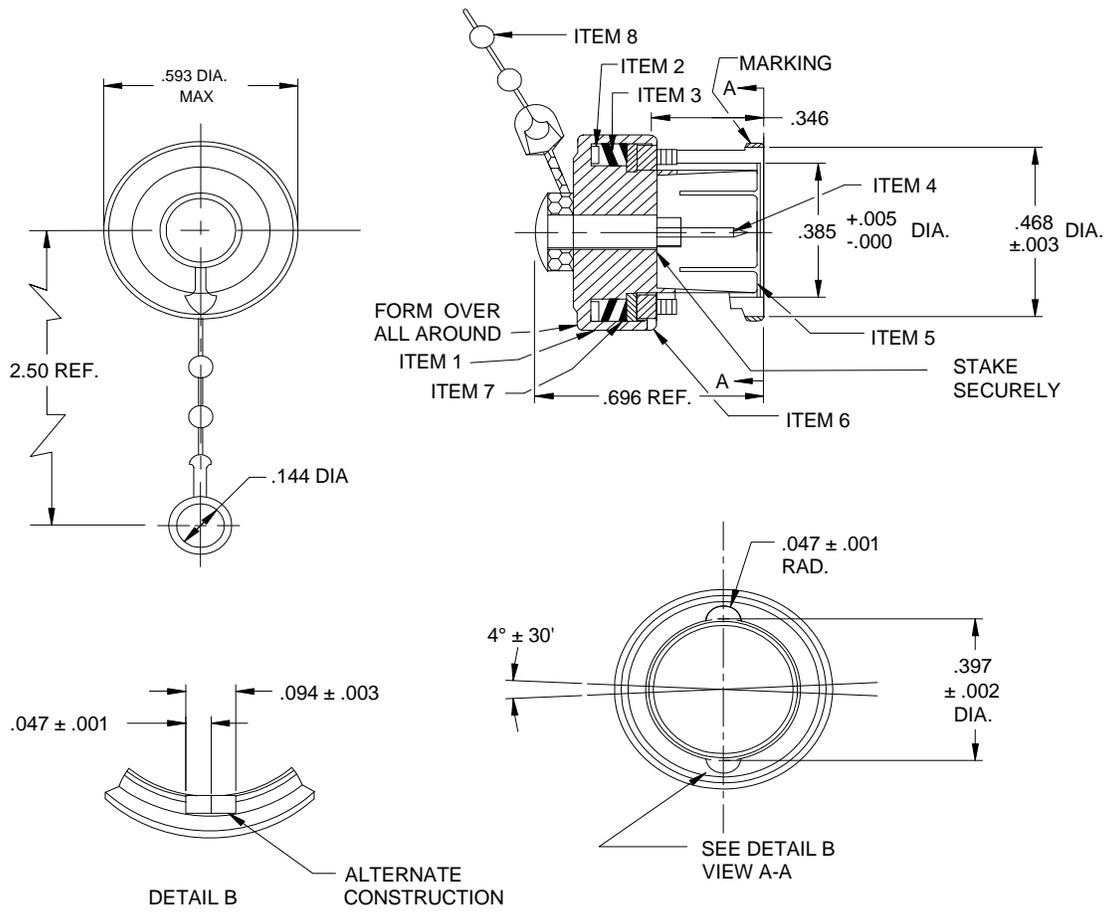
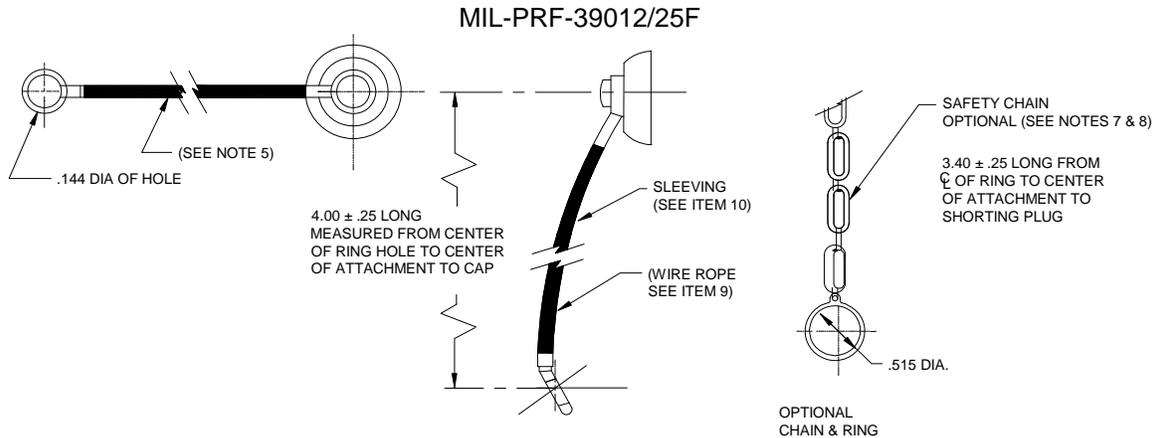


FIGURE 11. M39012/25-X016 shorting plug for series BNC female connectors with bead chain.  
M39012/25-X017 shorting plug for series BNC female connectors with safety chain.  
M39012/25-X116 shorting plug for series BNC female connectors with wire rope.



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

Inches	mm	Inches	mm
.001	0.03	.385	9.78
.002	0.05	.397	10.08
.003	0.08	.468	11.89
.005	0.13	.515	13.08
.047	1.19	.593	15.06
.094	2.39	.696	17.68
.144	3.66	2.50	63.5
.25	6.3	3.40	86.4
.346	8.79	4.00	101.6

NOTES:

- Dimensions are in inches.
- Metric equivalents are given for information only.
- Unless otherwise specified, tolerances are  $\pm 0.02$  (0.5 mm) for two place decimals and  $\pm 0.005$  (0.13 mm) for three place decimals.
- Standard coupling brass, bead chain monel metal or stainless steel, and offset coupling.
- The bead chain to be finished with nickel plate, in-lieu-of silver, conforming to MIL-PRF-39012. (Exception: Parts which are fabricated with monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test as specified in MIL-PRF-39012.). The wire rope shall be specified in MIL-DTL-83420, type 2, composition B.
- The offset coupling must rotate freely after riveting.
- Safety chain: (Optional) passivated corrosion resistant steel, in accordance with MIL-PRF-39012.
- 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 from dust and moisture.

FIGURE 11. M39012/25-X016 shorting plug for series BNC female connectors with bead chain.  
M39012/25-X017 shorting plug for series BNC female connectors with safety chain.  
M39012/25-X116 shorting plug for series BNC female connectors with wire rope – Continued.

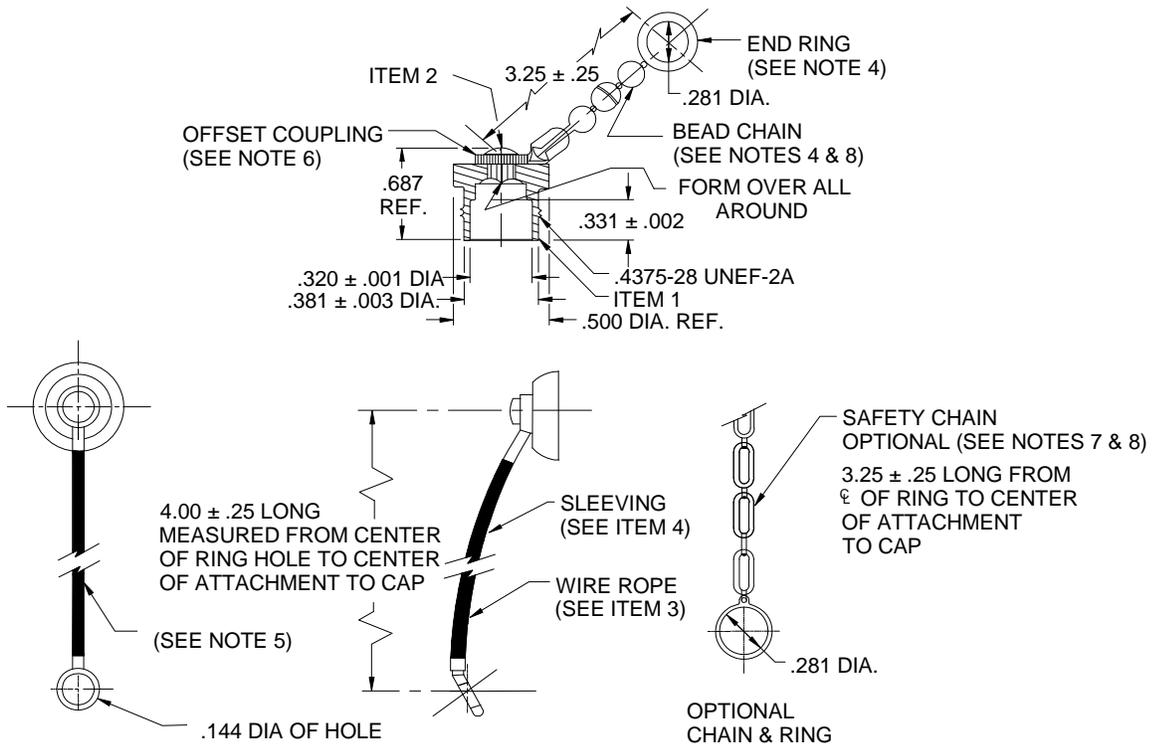


FIGURE 12. M39012/25-X018 cap and chain for series TNC male connectors with bead chain.  
M39012/25-X019 cap and chain for series TNC male connectors with safety chain.  
M39012/25-X118 cap and chain for series TNC male connectors with wire rope.

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Item	Material	Description
1	Brass	Body
2	Brass	Rivet
3	SST	Wire rope
4	Teflon or nylon	Covering

Inches	mm	Inches	mm
.001	0.03	.331	8.41
.002	0.05	.381	9.68
.003	0.08	.593	15.06
.144	3.66	.687	17.45
.25	6.3	3.25	82.5
.281	7.14	4.00	101.6
.320	8.13		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm 0.02$  (0.5 mm) for two place decimals and  $\pm 0.005$  (0.13 mm) for three place decimals.
4. Standard coupling brass, bead chain monel metal or stainless steel, and offset coupling, brass.
5. The bead chain to be finished with nickel plate, in-lieu-of silver, conforming to MIL-PRF-39012. (Exception: Parts which are fabricated with monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test as specified in MIL-PRF-39012.). The wire rope shall be specified in MIL-DTL-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) passivated corrosion resistant steel, in accordance with MIL-PRF-39012.
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 from dust and moisture.

FIGURE 12. M39012/25-X018 cap and chain for series TNC male connectors with bead chain.  
M39012/25-X019 cap and chain for series TNC male connectors with safety chain.  
M39012/25-X118 cap and chain for series TNC male connectors with wire rope – Continued.

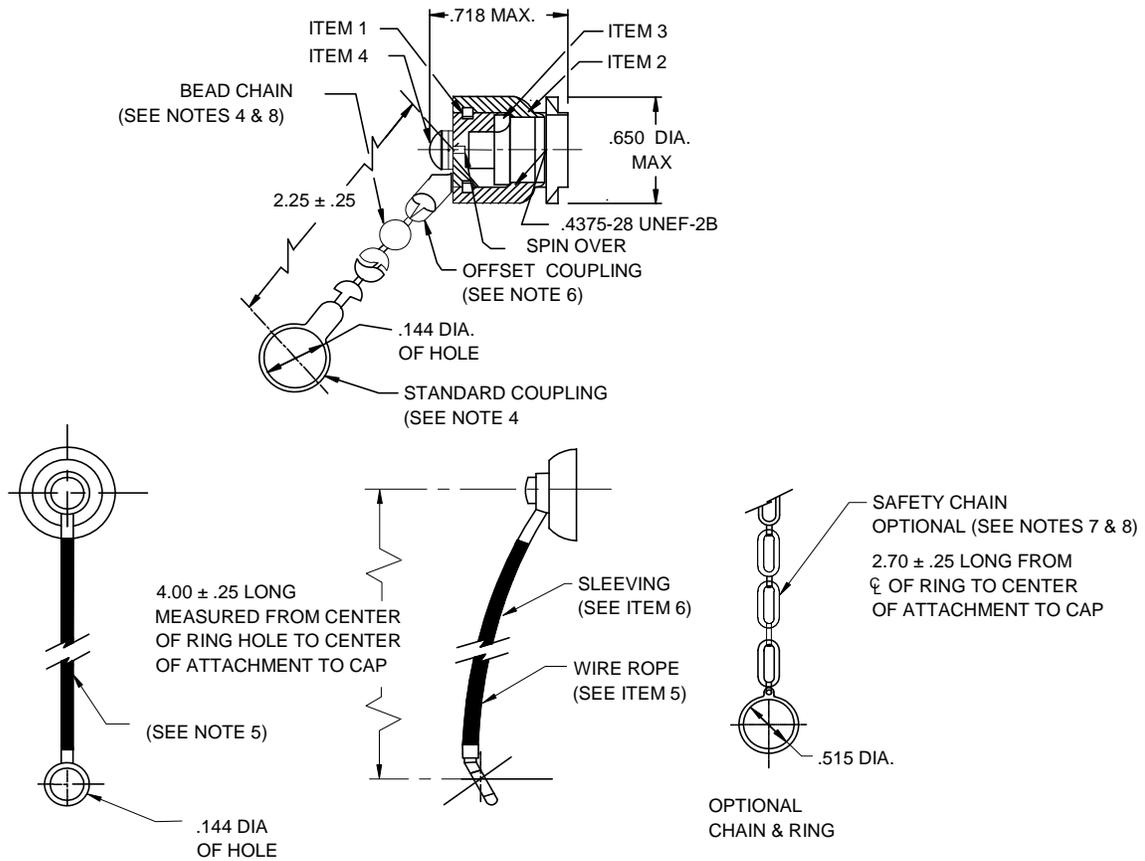


FIGURE 13. M39012/25-X020 cap and chain for series TNC female connectors with bead chain.  
M39012/25-X021 cap and chain for series TNC female connectors with safety chain.  
M39012/25-X120 cap and chain for series TNC female connectors with wire rope.

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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	6.3	2.25	57.1
.515	13.08	2.70	68.6
.650	16.51	4.00	101.6

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for 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 brass, bead chain monel metal or stainless steel, and offset coupling, brass.
5. The bead chain to be finished with nickel plate, in-lieu-of silver, conforming to MIL-PRF-39012. (Exception: Parts which are fabricated with monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test as specified in MIL-PRF-39012.). The wire rope shall be specified in MIL-DTL-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) passivated corrosion resistant steel, in accordance with MIL-PRF-39012.
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 from dust and moisture.
10. All undimensioned configurations are for reference only.

FIGURE 13. M39012/25-X020 cap and chain for series TNC female connectors with bead chain.  
M39012/25-X021 cap and chain for series TNC female connectors with safety chain.  
M39012/25-X120 cap and chain for series TNC female connectors with  
wire rope – Continued.

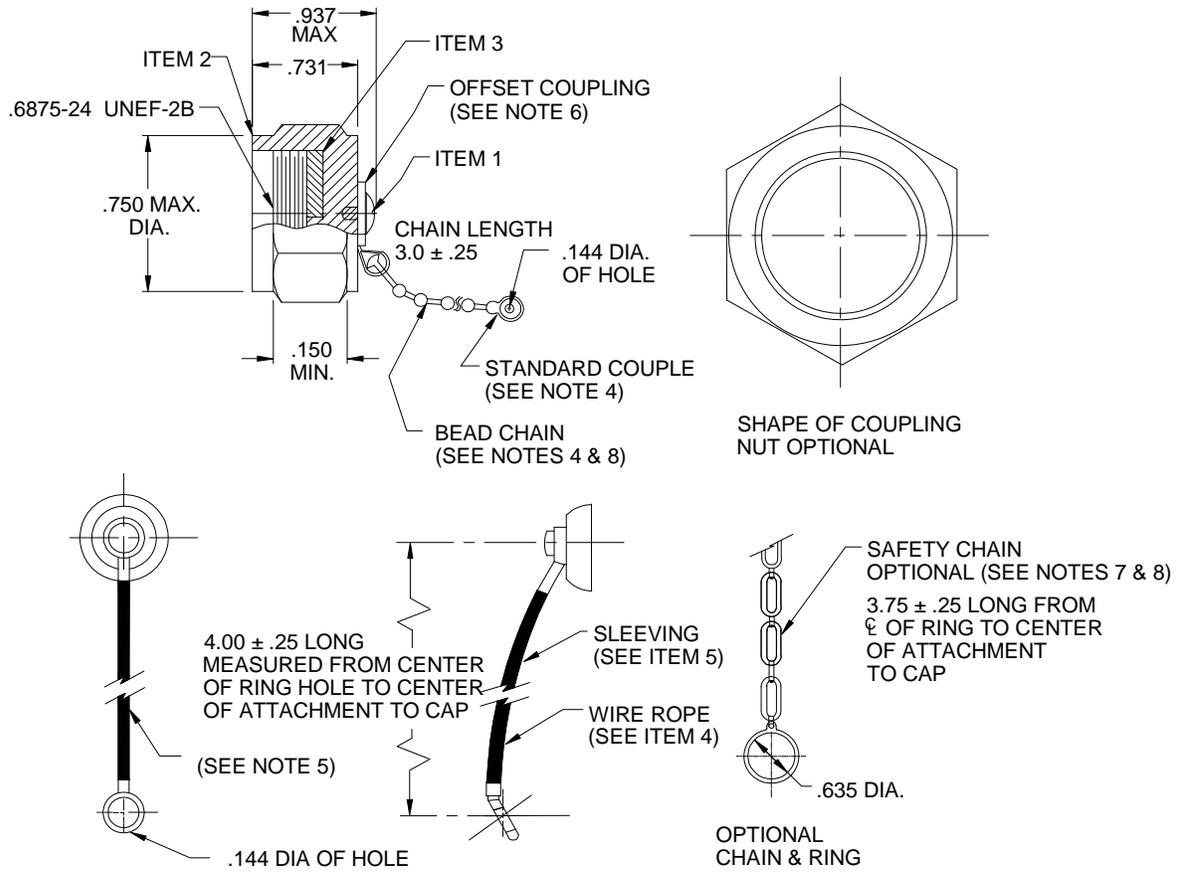


FIGURE 14. M39012/25-X022 cap and chain for series SC female connectors with bead chain.  
M39012/25-X023 cap and chain for series SC female connectors with safety chain.  
M39012/25-X122 cap and chain for series SC female connectors with wire rope.

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

Inches		mm		Inches		mm	
.144	3.66	.150	3.81	.750	19.05	.937	23.80
.250	6.35	.635	16.13	3.25	82.5	3.75	95.2
.731	18.57			4.00	101.6		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm 0.02$  (0.5 mm) for two place decimals and  $\pm 0.005$  (0.13 mm) for three place decimals.
4. Standard coupling brass, bead chain monel metal or stainless steel, and offset coupling, brass.
5. The bead chain to be finished with nickel plate, in-lieu-of silver, conforming to MIL-PRF-39012. (Exception: Parts which are fabricated with monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test as specified in MIL-PRF-39012.). The wire rope shall be specified in MIL-DTL-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) passivated corrosion resistant steel, in accordance with MIL-PRF-39012.
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 from dust and moisture.

FIGURE 14. M39012/25-X022 cap and chain for series SC female connectors with bead chain.  
M39012/25-X023 cap and chain for series SC female connectors with safety chain.  
M39012/25-X122 cap and chain for series SC female connectors with  
wire rope – Continued.

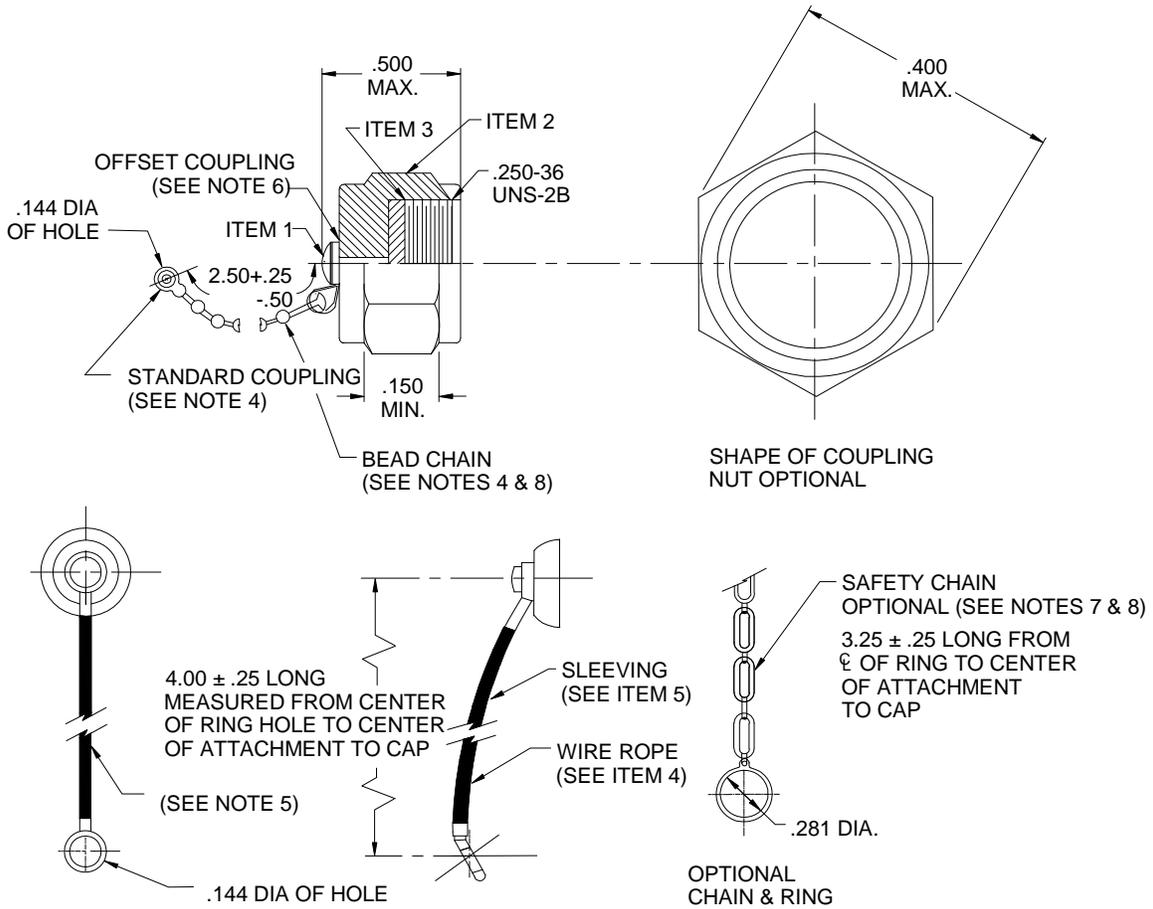


FIGURE 15. M39012/25-3024 cap and chain for series SMA female connectors with bead chain.  
M39012/25-3025 cap and chain for series SMA female connectors with safety chain.  
M39012/25-3124 cap and chain for series SMA female connectors with wire rope.

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Item	Material	Description		
1	Stainless steel	Rivet		
2	Stainless steel	Cap		
3	Silicone rubber	Gasket		
4	SST	Wire rope		
5	Teflon, nylon or equivalent	Covering		
			Inches	mm
			.144	3.66
			.150	3.81
			.250	6.35
			.281	7.14
			.500	12.70
			2.25	57.1
			3.25	82.5
			4.00	101.6

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm 0.02$  (0.5 mm) for two place decimals and  $\pm 0.005$  (0.13 mm) for three place decimals.
4. Standard coupling brass, bead chain monel metal or stainless steel, and offset coupling, brass.
5. The bead chain to be finished with nickel plate, in-lieu-of silver, conforming to MIL-PRF-39012. (Exception: Parts which are fabricated with monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test as specified in MIL-PRF-39012.). The wire rope shall be specified in MIL-DTL-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) passivated corrosion resistant steel, in accordance with MIL-PRF-39012.
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 from dust and moisture.
10. Thread dimensions shall be in accordance with MIL-STD-348 for the SMA interface with pin contact, except the minimum dimension from the face of the cap to the beginning of the thread may be zero inches.
11. The hex flat dimensions shall be in accordance with MIL-STD-348 for the SMA interface with pin contact.

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.

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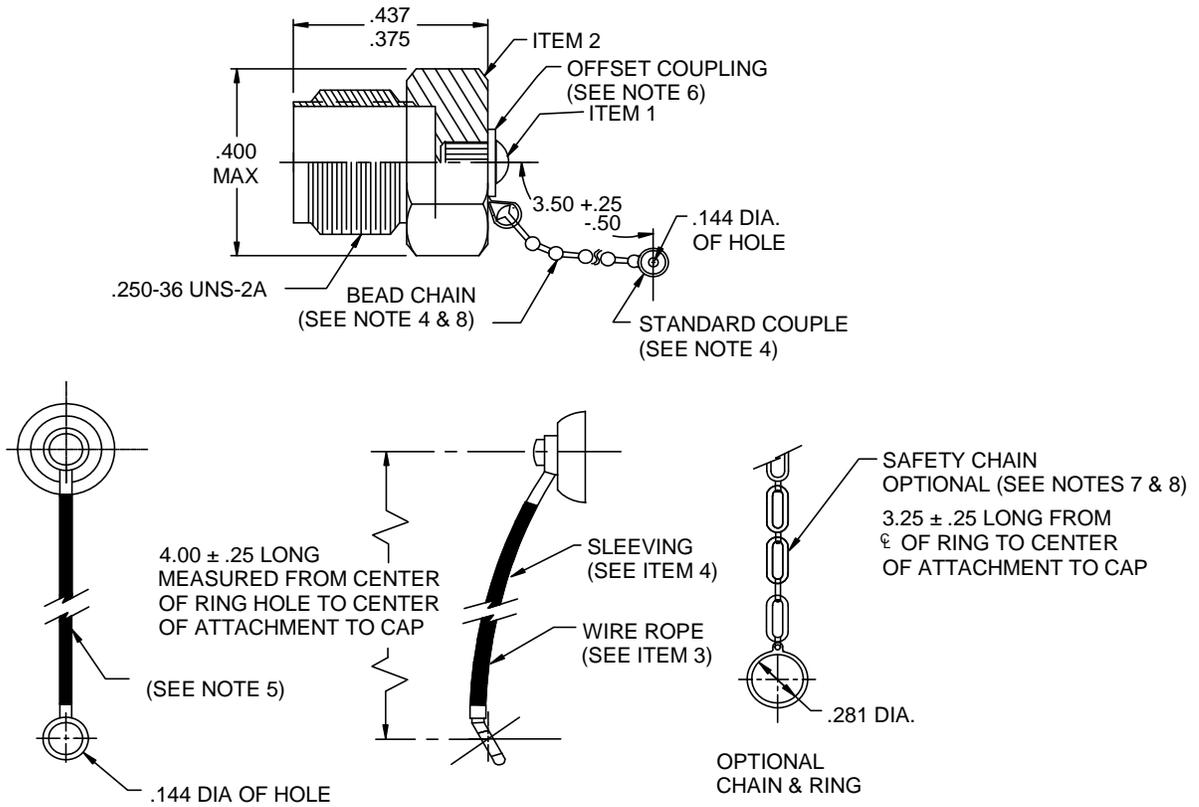


FIGURE 16. M39012/25-3026 or -4026 cap and chain for series SMA male connectors with bead chain.  
M39012/25-3027 or -4027 cap and chain for series SMA male connectors with safety chain.  
M39012/25-3126 or -4126 cap and chain for series SMA male connectors with wire rope.

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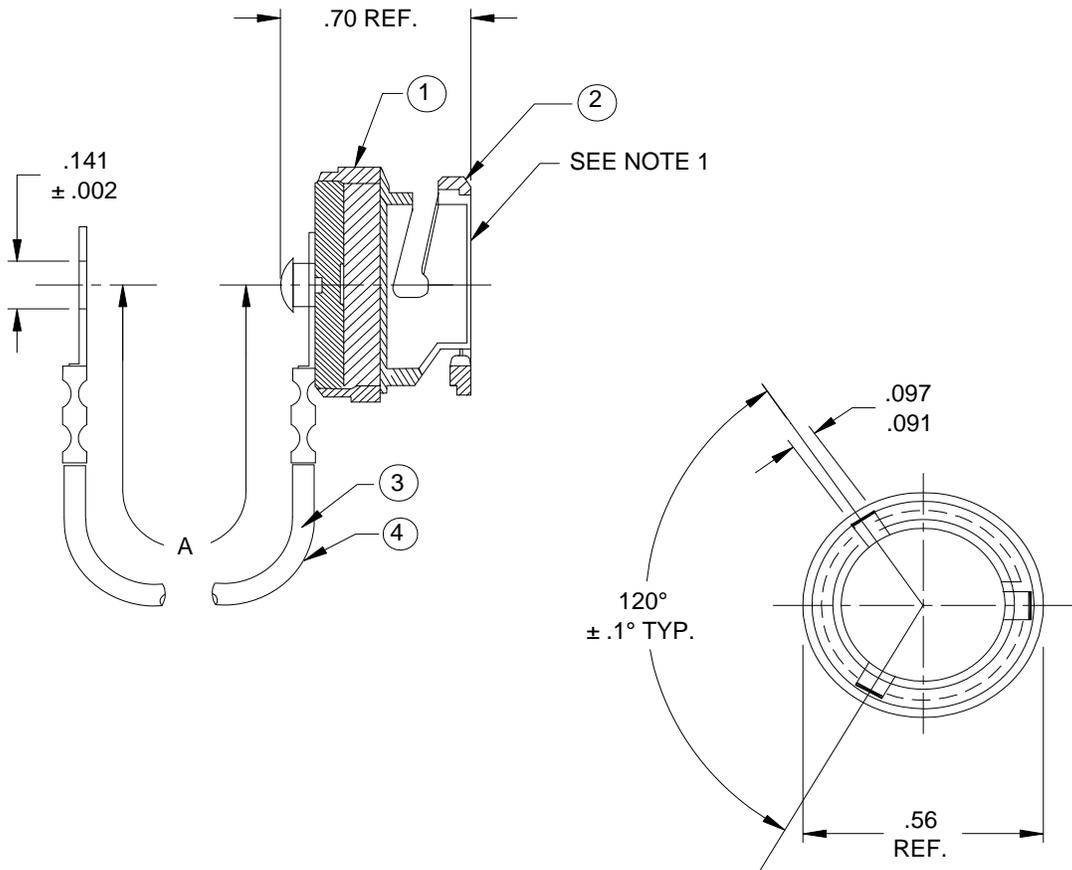
Item	Material	Description	Inches	mm
1	Stainless steel	Rivet	.144	3.66
2	Stainless steel	Body	.250	6.35
3	SST	Wire rope	.281	7.14
4	Teflon, nylon or equivalent	Covering	.325	8.26
			.375	9.53
			.400	10.16
			.437	11.10

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm .005$  (0.13 mm) for three place decimals.
4. Standard coupling brass, bead chain monel metal or stainless steel, and offset coupling brass.
5. The bead chain to be finished with nickel plate, in-lieu-of silver, conforming to MIL-PRF-39012. (Exception: Parts which are fabricated with monel metal or stainless steel are not required to be plated, provided such parts will pass the corrosion test as specified in MIL-PRF-39012.). The wire rope shall be specified in MIL-DTL-83420, type 2, composition B.
6. The offset coupling must rotate freely after riveting.
7. Safety chain: (Optional) passivated corrosion resistant steel, in accordance with MIL-PRF-39012.
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 from dust and moisture.

FIGURE 16. M39012/25-3026 or -4026 cap and chain for series SMA male connectors with bead chain.  
M39012/25-3027 or -4027 cap and chain for series SMA male connectors with safety chain.  
M39012/25-3126 or -4126 cap and chain for series SMA male connectors with wire rope  
 – Continued.

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Inches	mm	Inches	mm
.002	0.05	.141	3.58
.091	2.31	.56	14.2
.097	2.46	.70	17.8

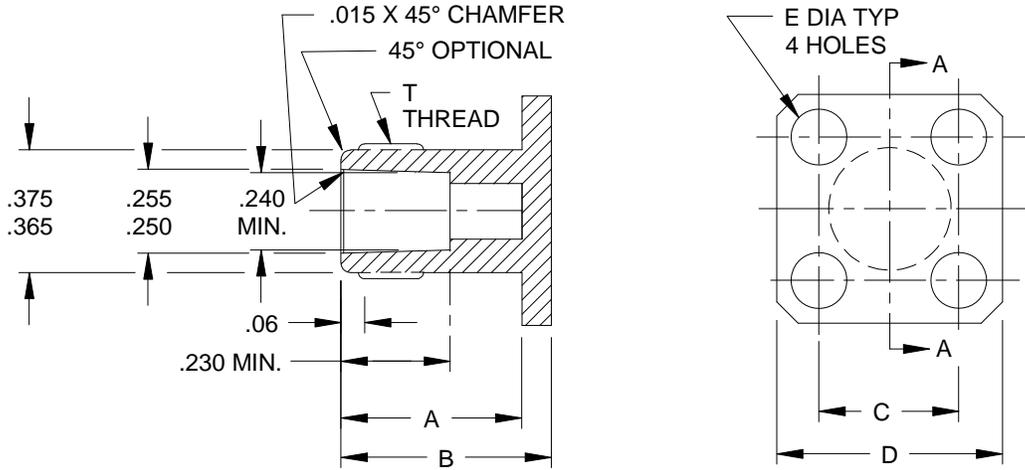
Item	Material	Description
1	Silicone	Gasket
2	Brass	Cap
3	SST	Wire rope
4	Teflon, nylon or equivalent	Rope insulation

NOTES:

1. Cap shall mate with series TRB in accordance with MIL-PRF-49142.
2. Metric equivalents are given for information only.
3. Dimension A: 4 ± .25 inches.
4. Dimensions are in inches. Metric equivalents are for information only.

FIGURE 17. M39012/25-X028 series TRB cap.

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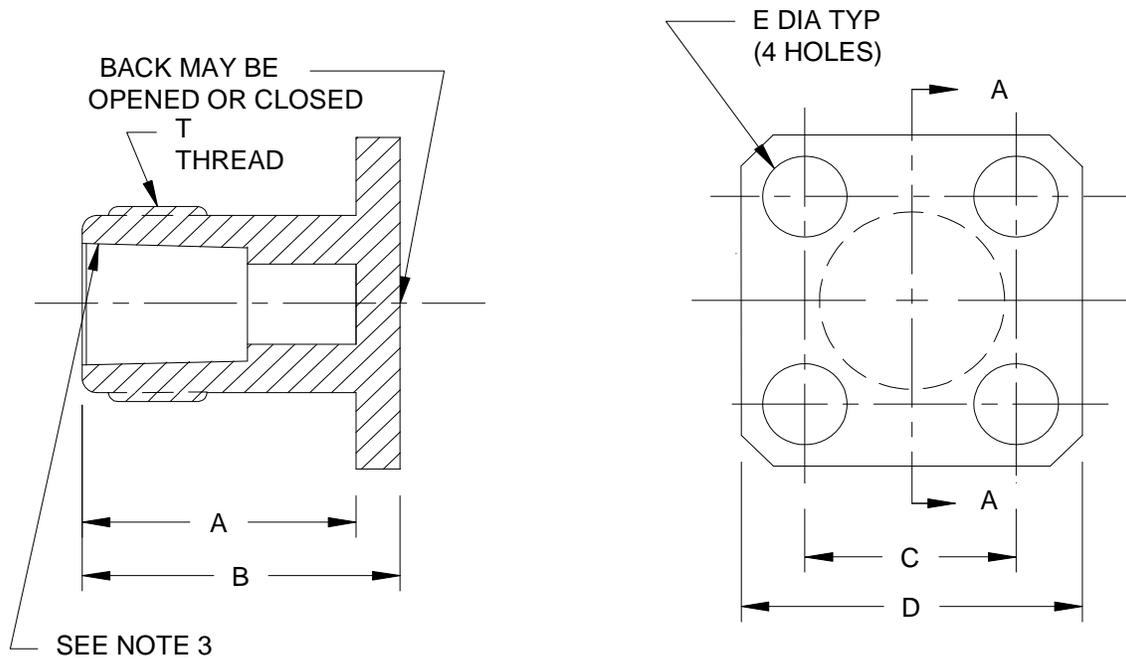
Inches	mm	Inches	mm
.015	0.38	.250	6.35
.06	1.5	.255	6.48
.230	5.84	.365	9.27
.240	6.10	.375	9.53

PIN M39012/25	A	B	C	D	E	T (thread)	Series
-X029	.99 (25.1)	1.07 (27.9)	.510 (12.95)	.700 (17.78)			TK
-3029	.96 (24.4)	1.01 (25.6)	.490 (12.45)	.680 (17.27)	.125 (3.18)	.4375-28- UNEF-2A	

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.

FIGURE 18. M39012/25-X029 or M39012/25-3029, dummy stowage, series TK.

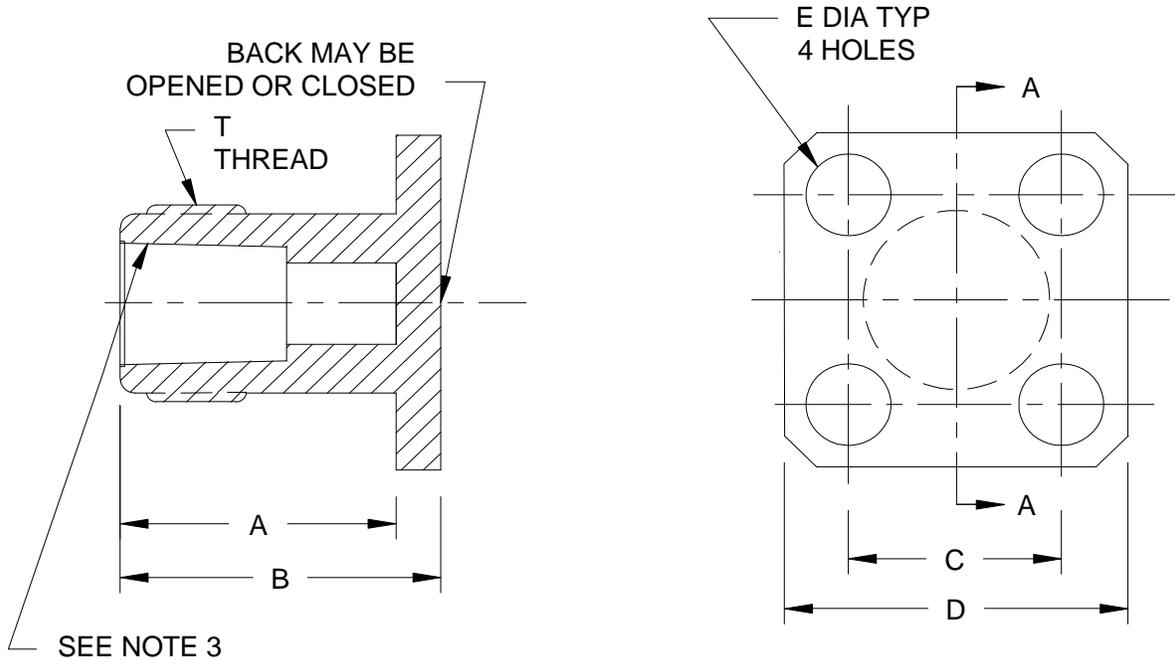


PIN M39012/25	A	B	C	D	E	T (thread)	Series
-X030	.630 (16.00)	.725 (18.42)	.504 (12.88)	.70 (17.8)			
-3030	.540 (13.70)	.625 (15.88)	.496 (12.60)	.68 (17.3)	.125 (3.18)	.4375-28- UNEF-2A	TNC

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Interface shall be in accordance with MIL-STD-348, series TNC minus contacts and dielectric.

FIGURE 19. M39012/25-X030 or M39012/25-3030, dummy stowage, series TNC.

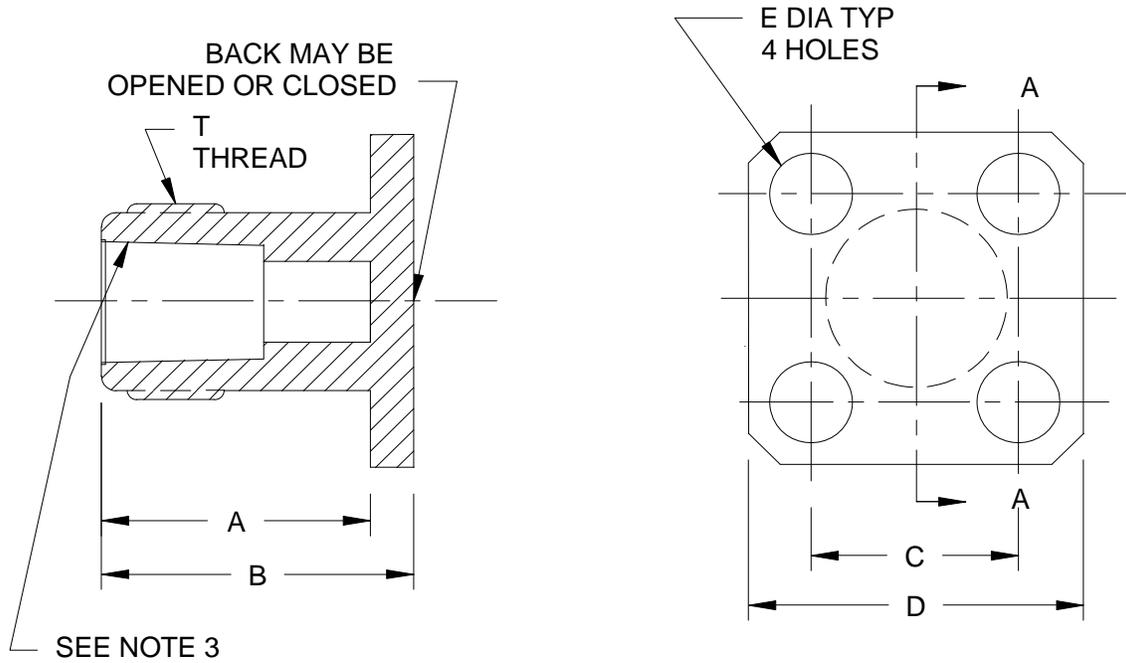


PIN M39012/25	A	B	C	D	E	T (thread)	Series
-3031	.340 (8.64)	.415 (10.54)	.342 (8.69)	.510 max. (12.95)	.102 (2.59)	.250-36- UNS-2A	SMA
-4031	.310 (7.87)	.365 (9.27)	.338 (8.59)				

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Interface shall be in accordance with MIL-STD-348, series SMA minus contacts and dielectric.

FIGURE 20. M39012/25-3031 or 4031, dummy stowage, series SMA.

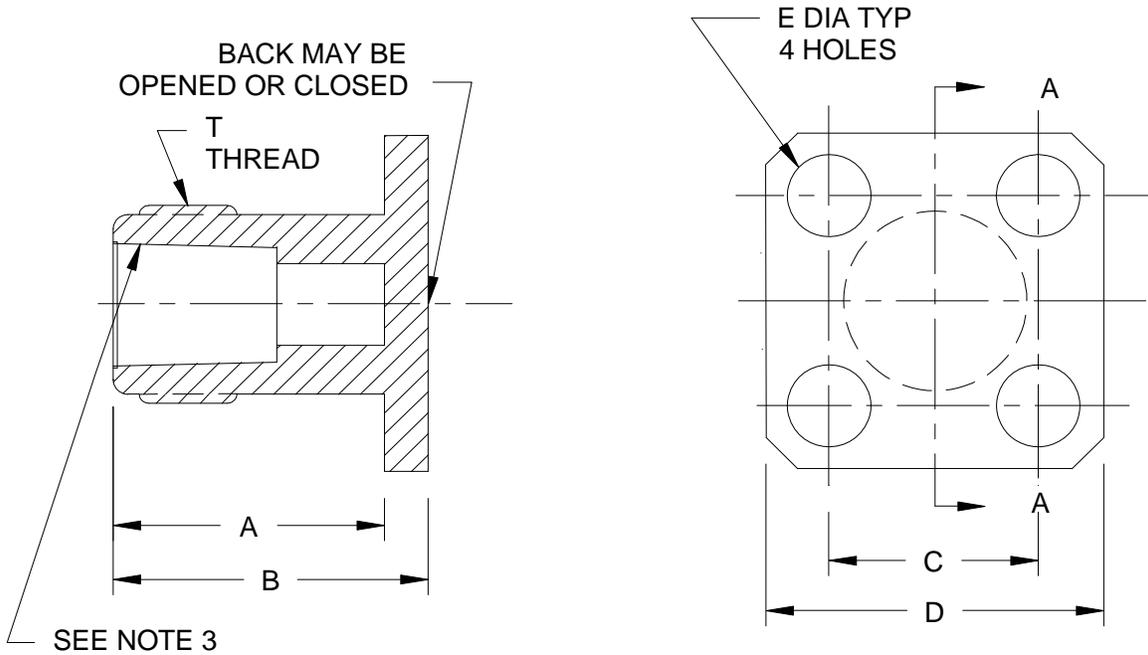


PIN M39012/25	A	B	C	D	E	T (thread)	Series
-X032	.671 (17.04)	.756 (19.20)	.723 (18.36)	1.00 (25.4)	.125 (3.18)	.625-24- UNEF-2A	N
-3032	.641 (16.28)	.716 (18.19)	.713 (18.11)	.985 (25.02)			

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Interface shall be in accordance with MIL-STD-348, series N minus contacts and dielectric.

FIGURE 21. M39012/25-X032 or M39012/25-3032, dummy stowage, series N.



PIN M39012/25	A	B	C	D	E	T (thread)	Series
-X033	.865 (21.97)	.960 (24.38)	.720 (18.29)	1.00 (25.4)	.125 (3.18)	.6875-24- UNEF-2A	SC
-3033	.835 (21.21)	.910 (23.11)	.714 (18.14)	.985 (25.02)			

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Interface shall be in accordance with MIL-STD-348, series SC minus contacts and dielectric.

FIGURE 22. M39012/25-X033 or M39012/25-3033, dummy stowage, series SC.

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REQUIREMENTS:

Material: All materials and platings shall be in accordance with the requirements of MIL-PRF-39012.

Design and construction: See figures 1 through 22.

Corrosion (salt spray): Method 101, test condition B, in accordance with 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.

Marking: Marking shall be in accordance with MIL-PRF-39012 except that the marking location may be on the wire rope jacket or on a shrink tubing on the wire rope.

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

Cross reference data: See tables I and II.

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

PIN 2/ M39012/25-	Figure number	Item-name	Applicable chain	Applicable cable	Applicable connector series
X001	1	Cover	Bead	-----	For use with all series C female connectors
X002			Safety		
X101			Wire rope		
X003	2	Cover	Bead	-----	For use with all series C male connectors
X004			Safety		
X103			Wire rope		
X005	3	Shield	-----	M17/6-RG11, M17/74-RG213, M17/163-00001, M17/75-RG214, M17/164-00001 and M17/77-RG216	
X006	4	Cover	Bead	-----	For use with all series BNC female connectors
X007			Safety		
X106			Wire rope		
X008	5	Cover	Bead	-----	For use with all series BNC male connectors
X009			Safety		
X010	6	Shield	-----	M17/84-RG223, M17/167-00001, M17/28-RG028 and M17/155-00001	
X011	7	Cap and chain	Bead	-----	For use with all series N female connectors
X012			Safety		
X111			Wire rope		
X013	8	Armor clamp	-----	M17/74-RG215, M17/6-RG12	Series C and N connectors using applicable cables and 11/16 accessory thread
X014	9	Armor clamp	-----	M17/79-RG219	
X015	10	Cap	-----	-----	For use with all series BNC female connectors
X016	11	Shorting plug	Bead	-----	For shorting series BNC female connectors
X017			Safety		
X116			Wire rope		
X018	12	Cap	Bead	-----	For use with all series TNC male connectors

See notes at end of the table.

TABLE I. Cross reference for hardware to connectors and cable – Continued. 1/

PIN <u>2/</u> M39012/25-	Figure number	Item-name	Applicable chain	Applicable cable	Applicable connector series
X019	12	Cap	Safety	-----	For use with all series TNC male connectors
X118			Wire rope		
X020	13	Cap	Bead	-----	For use with all series TNC female connectors
X021			Safety		
X120			Wire rope		
X022	14	Cap	Bead, safety and wire rope	-----	For use with all series SC female connectors
X023			Bead		
X122			Wire rope		
3024	15	Cap	Bead	-----	For use with all series SMA female connectors
3025			Safety		
3124			Wire rope		
4024			Bead		
4025			Safety		
4124			Wire rope		
3026	16	Plug	Bead	-----	For use with all series SMA male connectors
3027			Safety		
3126			Wire rope		
4026			Bead		
4027			Safety		
4126			Wire rope		
X028	17	Cap	Wire rope	-----	For use with all series TRB female connectors
X029 3029	18	Dummy stowage	-----	-----	For use with all series TK male connectors
X030 3030	19	Dummy stowage	-----	-----	For use with all series TNC male connectors
3031 4031	20	Dummy stowage	-----	-----	For use with all series SMA male connectors
X032 3032	21	Dummy stowage	-----	-----	For use with all series N male connectors

See notes at end of the table.

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TABLE I. Cross reference for hardware to connectors and cable – Continued. 1/

PIN <u>2/</u> M39012/25-	Figure number	Item-name	Applicable chain	Applicable cable	Applicable connector series
X033 3033	22	Dummy stowage	-----	-----	For use with all series SC male connectors

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

2/ The PIN (including dash number ) with the definition of its makeup is defined in section 1 of the basic specification, MIL-PRF-39012.

TABLE II. Cross reference PIN to superseded type designation.

PIN M39012/25-	Superseded type designation
0001	MX-1142A/U
0003	MX-1143A/U
0005	MX1144/U
0006	CW-123A/U
0008	CW-282/U
0010	MX-195A/U
0011	MX-913/U
0013	MX-1286/U
0014	MX-1441/U
0015	CW-155A/U
0016	CW-159/U
0017	

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

Referenced documents. In addition to MIL-PRF-39012, this document references the following:

MIL-DTL-83420  
MIL-STD-202  
MIL-STD-348  
MIL-PRF-49142

MIL-PRF-39012/25F

CONCLUDING MATERIAL

Custodians:

Army – CR  
Navy – EC  
Air Force – 85  
DLA – CC

Preparing activity:  
DLA - CC

(Project 5935-2006-051)

Review activities:

Army – AR, AT, AV, EA, MI  
Navy – AS, MC, OS, SH  
Air Force – 19, 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 <http://assist.daps.dla.mil>.