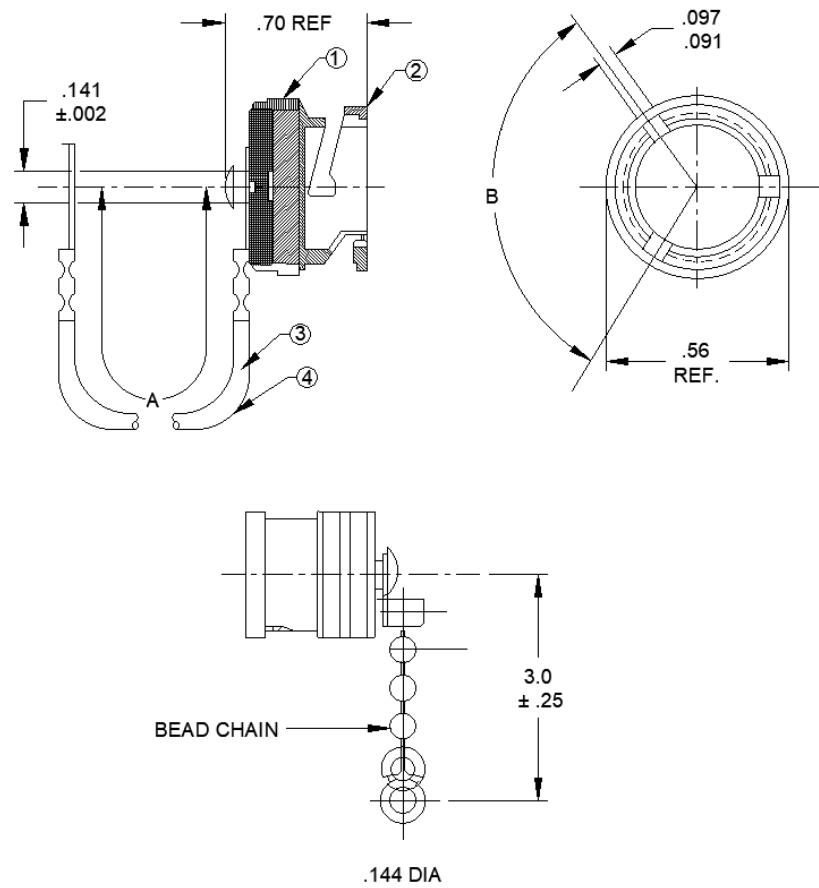


DETAIL SPECIFICATION SHEET

COVER, PLUG AND RECEPTACLE, CONNECTORS, TRIAXIAL, RADIO FREQUENCY
(HARDWARE FOR RADIO FREQUENCY TRIAXIAL 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-49142.



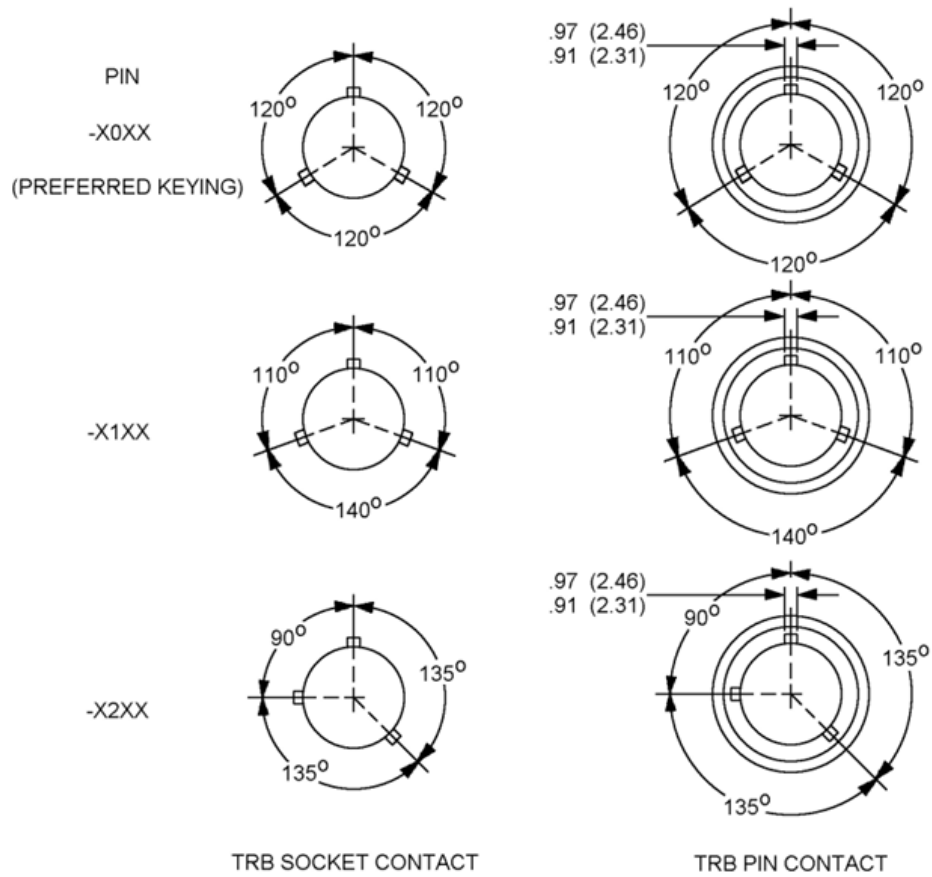
Item	Material	Description
1	Silicone	Gasket
2	Brass	Cap
3	SST	Wire rope
4	Teflon, nylon or equivalent	Rope insulation

FIGURE 1. M49142/17-XX01 series TRB cap with wire rope.
M49142/17-XX02 series TRB cap with bead chain.

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is ± 0.005 inch.
3. The offset coupling must rotate freely after attaching.
4. Dimension A: $4 \pm .25$ inches.
5. Dimension B: see figure 2.

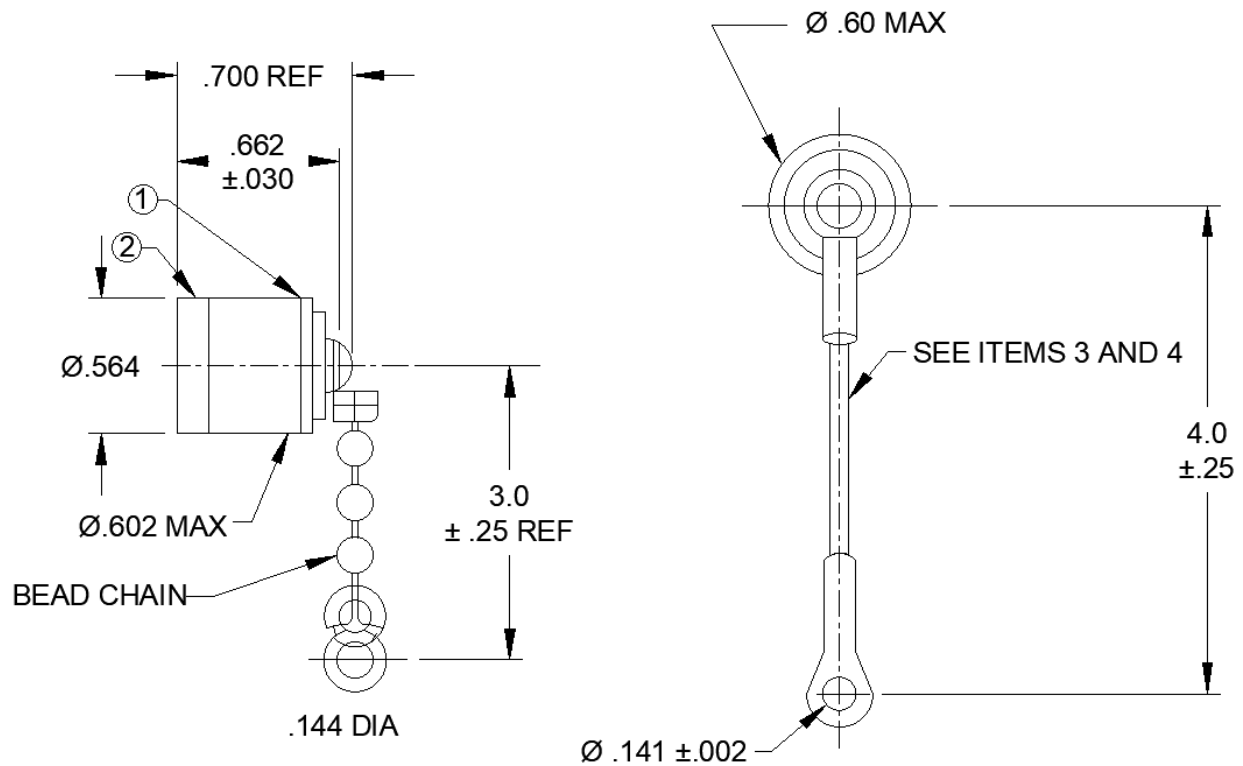
FIGURE 1. M49142/17-XX01 series TRB cap with wire rope.
M49142/17-XX02 series TRB cap with bead chain – continued



NOTES:

1. All angle tolerances are $\pm 1^\circ$.

FIGURE 2. Keying configurations (TRB) only.



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

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is ±.005 inch.
3. The offset coupling must rotate freely after attaching.

FIGURE 3. M49142/17-X003 series TRT cap with wire rope.
M49142/17-X004 series TRT cap with bead chain.

REQUIREMENTS:

Material: All materials and platings shall be in accordance with the requirements of MIL-PRF-49142.

Bead chain: The bead chain to be finished with nickel plate, in-lieu-of silver, conforming to MIL-PRF-49142. (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-49142).

Wire rope: The wire rope shall be specified in MIL-DTL-83420, type 2, composition B.

Design and construction: See figures 1 through 3.

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

The salt solution concentration shall be 5 percent.

Special detail: After exposure, hardware shall be washed, shaken and lightly brushed as specified in MIL-STD-202-101, 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.

Pullout

Bead chain: The chain shall withstand tensile forces as specified. The forces shall be applied at a rate of approximately 100 pounds per minute. The applied forces shall be 30 pounds for bead chain. The forces shall be attached to the hole in the standard coupling. One pull shall be parallel to the connector axis and one pull perpendicular to the connector axis.

Marking: Marking shall be in accordance with MIL-PRF-49142 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 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 table I.

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

PIN 1/ M49142/17-	Figure number	Item-name	Applicable chain	Applicable connector series
XX01	1	Cap	Wire rope	For use with all series TRB female connectors
XX02			Bead	
X003	2	Cap	Wire rope	For use with all series TRT female connectors
X004			Bead	

1/ The PIN (including dash number) with the definition of its makeup is defined in section 1 of the basic specification, MIL-PRF-49142.

Referenced documents. In addition to MIL-PRF-49142, this document references the following:

MIL-DTL-83420
MIL-STD-202-101

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 5935-2024-006)

Review activities:

Army – AR, AT, AV, EA
Navy – AS, MC, OS
Air Force – 19

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>.