DOCUMENT CHANGE REQUEST

DCR number 1442	Changes required for: General	Originator: Steve Thacker
Date: 2026/09/10	Date sent: 2021/07/15	Organisation: ESCC Executive Secretariat
Status: IMPLEMENTED		

Title:	RF coaxial connectors, TNC, very high power, 50 ohms (female interface) based on Type TNC-VHP		
Number:	3402/027	Issue:	3

Other documents affected:

Page:

Total reformat/re-write of ESCC Detail Specification 3402/027 issue 2 as part of the ongoing conversion of legacy ESA/SCC specifications to the ESCC format as well as reflecting changes in the recently converted ESCC Generic Specification No. 3402 issue 5.

The layout, format and general content of 3402/027 Draft 3 is based on other converted ESCC Detail Specifications (see attached for proposed 3402/027 Draft 3).

The technical content of ESCC 3402/027 Draft 3 remains closely based on the original ESCC 3402/027 issue 2 except as detailed herein.

Paragraph:

see below

Original wording:

as per current spec

Proposed wording:

Total reformat of this Detail Specification (from the range of various ESCC Detail Specifications, 3402/xxx, for RF connectors under Generic Specification No. 3402) as part of the ongoing conversion to the ESCC format.

See below for summary of changes, also see attached the proposed 3402/027 Draft 3.

Note: known support for active procurement against this specification includes the following Manufacturers:
• Radiall (on ESCCQPL)

Summary of changes to the current format, layout and content is as follows:

General
Rewording and restructure of various sections and paragraphs of the specification, plus other editorial changes based on the layout and editorial content of other Detail Specifications already converted to ESCC format.

In addition, editorial and technical amendments resulting from the changes made to the test requirements of the Generic Specification No. 3402.

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Specific amendments include:

• Figures 2(a) and 3: are replaced by direct references within MIL-STD-348.
• Para. 4.3.5: a +/-10% tolerance is specified for the 265N.cm torque value.
• Para. 4.3.7: Cable Retention Force is deleted (as not applicable to this spec)
• Para. 4.3.9: Magnetism requirements are deleted (as the requirements have been deleted in the Generic spec).
• Para 4.5.2: ESCC component number is amended: Testing level is deleted (SCC level B/C being deleted)
• Table 2, Voltage Proof & VP Leakage Current: test point details are added.
• Table 6 only includes specified electrical measurement requirements as required for the various Chart F4 Qual level tests (tests without electrical measurements are deleted) (editorial change).

• Figure 2(b) (now Para 3):
All variants:
"RF leakage", "Corona", "Cable retention force/torque", "leakage rate (panel sealed connectors)", "Soldering Proof", "Cables used" are deleted (as the requirements have been deleted in the Generic spec or are not applicable).

• Appendix A: Requirements amended to make them consistent with the application of Qualification and Periodic Testing per latest 3402 (as opposed to Qual & LAT in the previous 3402)

Justification:

Part of the ongoing conversion of legacy ESA/SCC specifications to the ESCC format. Amendments are made to the format and presentation to be consistent with the various other ESCC Detail Specifications, already converted to ESCC format, as well as ESCC Generic Specification No. 3402 issue 5.

See also change details for justification for specific items above.

Attachments:

escc3402027iss_draft_3a_in_review.docx

Modifications:

N/A

Approval signature:



Date signed:

2026-09-10