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IN REPLY
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DLA LAND AND MARITIME-VAI

31 January 2011

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Final draft(s) of TNC-EP-STUDY. Project Number: 5935-2010-199

Document Number	Action Taken	Complete Title	Spec-Finder (Y/N)	Overage (over 5 years old)	Project Number
TNC-EP-STUDY	Revision	Self-Locking/Anti-Rotational TNC Connector Study	N	N	5935-2010-199

The subject non-QPL document has been dated 28 January 2011. Copies of this document(s) may be downloaded from the DLA Land and Maritime Web site:

<http://www.dscc.dla.mil/Programs/MilSpec/>

If you do not have access to the internet, or you have problems downloading the document, printed copies may be obtained from Ami Chase at (614) 692-2063, facsimile transmission (614) 692-6939, or by e-mail ami.chase@dla.mil.

Sincerely,

/ *SIGNED* /

ABDONASSER M. ABDOUNI
Chief,
Interconnection Branch

cc:
DLA-VQP

ENGINEERING PRACTICE STUDY

TITLE:

SELF-LOCKING/ANTI-ROTATIONAL TNC
CONNECTOR STUDY

28 January 2011

PROJECT NUMBER:
5935-2010-199

DOCUMENT ID:
TNC-EP-STUDY

FINAL REPORT

Study Conducted and
Prepared by

Ami Chase

I. OBJECTIVE: The objective of this study is to determine if there is enough interest in the anti-rotational/ self-locking TNC connectors to merit developing a DSCC drawing and eventually incorporating them in a military specification.

II. BACKGROUND:

Standardized TNC connectors are covered in MIL-PRF-39012, MIL-PRF-55339, and MIL-STD-348.

This type of connector is an alternate design that has an anti-rotation or self-locking design. The self-locking/anti-rotational design could eliminate the need for a safety wire on the connector. Furthermore, there may be an opportunity to eliminate foreign object debris or damage, reduce installation costs and time, and in certain applications the reduction of weight could be an important benefit.

III. RESULTS:

Based on the comments and input gathered from this study, we have decided to pursue development of DSCC drawings for a TNC anti-rotational/self-locking connector. There were several positive feedbacks concerning the TNC anti-rotational/self-locking connector. Feed back indicated that some military applications need this type of connector due to their program restrictions of the use of safety wire in their applications. It is likely that a commercial version is being used now.

IV. CONCLUSIONS: There is enough interest in the TNC anti-rotational/self-locking connector to merit development of a new DSCC drawing.

V. RECOMMENDATION: Recommendation of this Engineering Practice study is to proceed with development of DSCC drawing(s) to cover an anti-rotational/self locking TNC connector.