

Attachment No. 5

Project Status Report And Other Issues For Electrical Connectors

EIA CE-2.0

Holiday Inn Riverwalk
San Antonio, TX

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September 24, 25, 2007

DSCC is continuing with efforts to find alternatives to cadmium plating. Cadmium has been identified as a hazardous material and is targeted for reduction or elimination in accordance with the RoHS act (Reduction Of Hazardous Materials Act). The following finishes have been recommended by SAE-AE8C1 for inclusion in our military specifications:

Zinc Nickel. Zinc Nickel Alloy

In accordance with ASTM B841, over a suitable underplate to withstand 1000 hour salt spray.

Teflon Nickel.

High phosphate nickel with Teflon additive over a suitable underplate to withstand 1000 hour salt spray.

Pure Electrodeposited Aluminum.

Pure dense electrodeposited aluminum in accordance with MIL-DTL-83488, to withstand 1000 hour salt spray.

Zinc Cobalt.

Zinc Cobalt in accordance with ASTM B840, over a suitable underplate to withstand 500 hour salt spray.

Projects are underway to incorporate the finishes listed above to the following specifications: I

Miniature D, Subminiature & Card Edge Connectors.

MIL-DTL-83513 Slash sheets	MIL-DTL-24308 Slash sheets	General Specifications only
/1, 2, 3, 4, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 & 33.	/1, 2, 3, 4, 5, 6, 7, 8, 23, 24, 25, 26, 27 & 28.	MIL-DTL-83513 MIL-DTL-24308 MIL-DTL-21097
Total= 28	Total= 14	Total= 3
Total= 45		

Circular Connectors.

MIL-DTL-26482 Slash sheets	MIL-DTL-28840 Slash sheets	MIL-DTL-83723 Slash sheets	MIL-DTL-38999 Slash sheets	General Specifications only
MS3110, MS3111, MS3114, MS3115, MS3120, MS3121, MS3124, MS3126, MS3127 & MS3128	/1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 25, 26, 27, 28, 29 & 30.	/59, 60, 61, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 82, 83, 84, 85, 86, 87, 91, 92, 95 & 96.	/28, 32, 33, 51 & 52.	MIL-DTL-27599 MIL-DTL-22992 MIL-DTL-26482 MIL-DTL-28840 MIL-DTL-83723 MIL-DTL-38999
Total= 10	Total= 27	Total= 26	Total= 5	Total= 6
Total= 74				

Therefore, grand total: 74 + 45 = 119.

These are at this time proposed only pending the coordination meeting on MIL-DTL-38999, which is anticipated to be held October 2007.

The following documents have Initial drafts out for review:

MIL-DTL-38999
MIL-DTL-83513
MIL-DTL-24308
MIL-DTL-27599
MIL-DTL-22992

Circular Connectors:

MIL-DTL-38999 general spec is under a major revision. This revision includes:

- A. Incorporating into the basic all of the changes outlined in amendment 3.
- B. Adding alternate finishes to cadmium.
- C. Replacing cancelled reference (i.e EIA-364 for 1344).
- D. Trying to add new connector material.
- E. Trying to add a lightning strike test.
- F. Editorial & dimensional corrections.
- G. Adding high vibration contacts (rhodium and double gold finish).
- H. Any other needed changes.

The initial draft letter was dated April 17, 2007. Coordination meeting is scheduled for October 31 through November 1, 2007.

MIL-DTL-28840 basic & ss 4, 7, 8, 10 – 12, 16 – 21, 26, 28, 29 & supp1. Connector, Circular, Threaded, High Density, High Shock, Shipboard, Class D,

- A Incorporate Amendment 6
- B Replacing cancelled reference (i.e EIA-364 for 1344).
- C Update Qualification section (Adding MIL-STD-790 and SPC)

Documents were dated – 26 April 2007.

MIL-DTL-83723/86, /87, /91, /92, /97 and /98. General update. Preparing initial draft package.

Point of contact for Circular connectors is Mr. Abdo Abdouni at 614 692-0565, e mail:
abdonasser.abdouni@dla.mil

Printed circuit, D subminiature and micro miniature D type connectors project report:

MIL-DTL-24308 – Incorporating EIA-364 test procedures and Amendment 1. **Documents dated 25 June 2007**

MIL-DTL-24308/1, /2, /3, /4, 5, /6, 7, /8, /23, /24, /28: Modifying shell dimension due to allowance of staking indents to secure insert in shell. **Documents dated 25 June 2007**

MIL-DTL-83513– Incorporating EIA-364 test procedures, add a table to clarify group C sampling plan.
Documents dated 22 March 2007

MIL-DTL-55302 Basic, Incorporate EIA 364 test methods. Adding new socket copper alloy materials, Replace obsolete references. Revise contact resistance table. Revising Group B and C sampling plan.
Final draft is being reviewed by the editor for MIL-STD-961 compliance.

Point of contact for Printed circuit, D subminiature and micro miniature D type connectors is Mr. Ralph Antonelli at 614-692-0576, email: ralph.antonelli@dla.mil

Rectangular Connectors

MIL-DTL-28731

Replacing cancelled reference (i.e EIA-364 for 1344). Other changes and updates as determined during 5 year review.

Document dated 22 Januray 2007

Point of contact for Rectangular connectors is Ms. Vickie Diggs at 614-692-0574, email: Vickie.diggs@dla.mil