

Attachment No. 5

Project Status Report And Other Issues For Electrical Connectors

EIA CE-2.0

Holiday Inn Bayside
San Diego, CA

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DSCC is expanding 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 July 2007.

Circular Connectors:

MIL-DTL-38999 general spec is due for a major revision. This revision will include:

- 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 will be on our website by the end of the week of 16 April 07 at the most. Anticipate having a coordination meeting around July time frame.

However, before we do that, we have circulated an Engineering Practice Study (EPS) on the alternative finishes to cadmium with a 2 week suspense to get feed back from users, the military and manufacturers about those proposed finishes before we include them in the initial draft.

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)

Preparing final draft package, anticipate dating within next 2 months.

MIL-DTL-83723/86, /87, /91, /92, /97 and /98. General update. Preparing initial draft package will be available on DSCC website by the end of calendar year 2006.

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. Document in final review.

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 are in final review.

MIL-DTL-83513– Incorporating EIA-364 test procedures, add a table to clarify group C sampling plan. Document is in final review. Awaiting approval from Defense Automation and Production Service (DAPS)

MIL-DTL-55302 Basic, Incorporate EIA 364 test methods. Add MIL-STD-790. Add resistance to solvent test. Adding new socket copper alloy materials, Replace obsolete references. Revise contact resistance table. Revising Group B and C sampling plan. Preparing final draft.

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.

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