

Project Status Report And Other Issues For Electrical Connectors

EIA CE-2.0

Brown Hotel
Louisville, KY

Ralph Antonelli
DSCC-VAI

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Attachment No. 6

Cadmium Reduction:

DSCC Cadmium reduction efforts continue with the following finishes being accepted at the MIL-DTL-38999 coordination meeting held Oct 30 through Nov 1.

- a. Zinc Nickel. in accordance with ASTM B841, over a suitable underplate to withstand 500 hour salt spray. Color shall be non-reflective and shall meet the requirements as specified herein.
- b. Nickel Fluorocarbon Polymer. High phosphate nickel with fluorocarbon polymer additive over a suitable underplate to withstand 500 hour salt spray. Color shall be non-reflective and shall meet the requirements as specified herein. (yes we still do not have a document to reference for this).
- c. Pure Electrodeposited Aluminum. Pure dense electrodeposited aluminum in accordance with MIL-DTL-83488, type II to withstand 500 hour salt spray. Color shall be non-reflective and shall meet the requirements as specified herein.

Zinc Cobalt will not be included.

Documents referencing EIA-364:

40 Basic specifications now reference EIA-364 test procedures (see attachment 1)

Material specifications:

DSCC is looking into taking on some material specifications (i.e. SAE-AMS-QQ-N-290, nickel plating and SAE-AMS-QQ-P-416, cadmium plating). No specific details at this time.

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.

Preparing final draft

MIL-DTL-28840 and associated slash sheets.

- A. Incorporating cadmium alternatives.

Preparing recommended disposition of comments

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

Point of contact for Circular connectors is Mrs. Lisa Hoffer at 614 692-7702, e mail: lisa.hoffer@dla.mil

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

MIL-DTL-24308 and associated slash sheets:

A. Incorporating cadmium alternatives.

Preparing disposition of comments

MIL-DTL-83513 and associated slash sheets–

A. Incorporating cadmium alternatives.

Preparing disposition of comments

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-28748

MIL-DTL-28748/1-/6 and /17

These projects are undergoing pin corrections.

MS18158 NOT 2

MS18166 NOT 2

These projects are updating superseding information

MIL-DTL-32129

MIL-DTL-32129/1 -/4

These projects are working on the cadmium project.

MIL-C-83733/1 - /12 and /17

These projects are being updated. Overage and cancelled references.

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

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Attachment 1

Date: 26-MAR-2008	Document Analysis Referenced-By Report				Page: 1
For: EIA364					
Title: ELECTRICAL CONNECTOR/SOCKET TEST PROCEDURES INCLUDING ENVIRONMENTAL CLASSIFICATIONS					
Document ID	FSC/ Area	Prep Acty	Total DIDS	Acq Ref	Document Title
MIL-DTL-2726C SUP 1	5935	CC			Receptacles, Receptacle Plugs, Switch and Receptacles, and Outlets (Electrical), General Specification for
MIL-DTL-3655D SUP 1	5935	CC			CONNECTOR, PLUG AND RECEPTACLE, ELECTRICAL (COAXIAL, SERIES TWIN), AND ASSOCIATED FITTINGS, GENERAL SPECIFICATION FOR
MIL-DTL-12883/41F(1)	5935	CC			SOCKETS, PLUG-IN ELECTRONIC COMPONENTS, FOR RELAYS, 2-POLE, 10 AMPERES (MIL-R-6106 AND MIL-R-83536)
MIL-DTL-21097G	5935	CC			Connectors, Electrical, Printed Wiring Board, General Purpose General Specification for
MIL-DTL-21617A SUP 1	5935	CC			CONNECTORS, PLUG AND RECEPTACLE, ELECTRICAL, RECTANGULAR, POLARIZED SHELL, MINIATURE TYPE GENERAL SPECIFICATION FOR
MIL-DTL-22992F(1) SUP 1	5935	CC			Connectors, Plugs and Receptacles, Electrical, Waterproof, Quick Disconnect, Heavy Duty Type, General Specification for
MIL-DTL-24308F	5935	CC			Connectors, Electric, Rectangular, Nonenvironmental, Miniature, Polarized Shell, Rack and Panel, General Specification for
MIL-PRF-24623C	6060	SH		P	SPLICE, FIBER OPTIC CABLE, GENERAL SPECIFICATION FOR (METRIC)
MIL-DTL-25516F	5935	CC			CONNECTORS, ELECTRICAL, MINIATURE, COAXIAL, ENVIRONMENT RESISTANT TYPE, GENERAL SPECIFICATION FOR
MIL-DTL-25955A SUP 1	5935	CC			CONNECTORS, ELECTRICAL, ENVIRONMENT RESISTING, MINIATURE, WITH SNAP-IN CONTACTS
MIL-DTL-26482H SUP 1	5935	CC			Connectors, Electrical, (Circular, Miniature, Quick Disconnect, Environment Resisting), Receptacles and Plugs, General Specification for
MIL-DTL-26500F SUP 1	5935	CC			CONNECTORS, GENERAL PURPOSE, ELECTRICAL, MINIATURE, CIRCULAR, ENVIRONMENT RESISTING, GENERAL SPECIFICATION FOR
MIL-DTL-27599C SUP 1	5935	CC			Connectors, Electrical, Circular, Miniature, High Density, Quick Disconnect, Environment Resistant, Solder Contacts, General Specification for
MIL-DTL-28731F	5935	CC			Connectors, Electrical, Rectangular, Removable Contact, Formed Blade, Fork Type (for Rack and Panel and other Applications) General Specification for
MIL-DTL-28840B SUP 1	5935	CC			Connectors, Electrical, Circular, Threaded, High Density, High Shock, Shipboard, Class D, General Specification for
MIL-DTL-28840/13D	5935	CC			CONNECTOR ACCESSORIES, ELECTRICAL, CIRCULAR, THREADED, HIGH SHOCK, HIGH DENSITY, SHIPBOARD, COVER, RECEPTACLE
MIL-DTL-28840/15C	5935	CC			CONNECTORS, ELECTRICAL, CIRCULAR, THREADED, HIGH SHOCK, HIGH DENSITY, SHIPBOARD, DUST COVER, PLUG
MIL-PRF-31031B	5935	CC		P	CONNECTORS, ELECTRICAL, PLUGS AND RECEPTACLES, COAXIAL, RADIO FREQUENCY, HIGH RELIABILITY, FOR FLEXIBLE AND SEMIRIGID CABLES, GENERAL SPECIFICATION FOR
MIL-PRF-31031/1B	5935	CC		P	CONNECTOR, RECEPTACLE, ELECTRICAL, RADIO FREQUENCY, SERIES BMA, FLANGE MOUNT, FOR FLEXIBLE CABLE, SOCKET CONTACT, HIGH RELIABILITY
MIL-PRF-31031/2A	5935	CC		P	CONNECTOR, RECEPTACLE, ELECTRICAL, RADIO

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MIL-PRF-31031/11B	5935	CC		P	FREQUENCY, SERIES BMA, JAMNUT MOUNT, FOR FLEXIBLE CABLE, PIN CONTACT, HIGH RELIABILITY CONNECTOR, RECEPTACLE, ELECTRICAL, RADIO FREQUENCY, SERIES BMA, FLANGE MOUNT, FOR SEMIRIGID CABLE, SOCKET CONTACT, HIGH RELIABILITY
MIL-DTL-32139A	5935	CC			Connectors, Electrical, Rectangular, Nanominiature, Polarized Shell, General Specification for
MIL-DTL-32234 SUP 1	5935	CC			Connectors, Electrical, Ultra High Density, Modular, Blade and Fork, Eight Row, General Specification for
MIL-DTL-38159C SUP 1	5935	CC			CONNECTORS, ELECTRIC, RAMP POWER. 480/277 VOLTS, GENERAL SPECIFICATION FOR
MIL-DTL-38999K(3) SUP 1	5935	CC			CONNECTORS, ELECTRICAL, CIRCULAR, MINIATURE, HIGH DENSITY, QUICK DISCONNECT (BAYONET, THREADED, AND BREECH COUPLING), ENVIRONMENT RESISTANT, REMOVABLE CRIMP AND HERMETIC SOLDER CONTACTS, GENERAL SPECIFICATION FOR
MIL-PRF-39012E	5935	CC		P	CONNECTORS, COAXIAL, RADIO FREQUENCY, GENERAL SPECIFICATION FOR
MIL-PRF-49142B	5935	CC		P	CONNECTOR, TRIAXIAL, RADIO FREQUENCY, GENERAL SPECIFICATION FOR
MIL-DTL-55116C SUP 1	5935	CC			CONNECTORS: MINIATURE AUDIO, FIVE-PIN AND SIX-PIN GENERAL SPECIFICATION FOR
MIL-DTL-55181E	5935	CC			Connectors, Plug and Receptacle, Intermediate Power (Electrical, Waterproof), Type MW, General Specification for
MIL-DTL-55302/99D	5935	CC			CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES: RECEPTACLE, STRAIGHT THROUGH, HERMAPHRODITIC CONTACT, WRAPPOST REMOVABLE, FOR PRINTED WIRING BOARDS (.100 INCH SPACING)
MIL-DTL-83413B	5935	CC			CONNECTORS AND ASSEMBLIES, ELECTRICAL, AIRCRAFT GROUNDING, GENERAL SPECIFICATION FOR
MIL-DTL-83413/7C	5999	CC			CONNECTORS AND ASSEMBLIES, ELECTRICAL, AIRCRAFT GROUNDING: GROUNDING CLAMP CONNECTOR FOR TYPES I AND III GROUNDING ASSEMBLIES, CLIP, ELECTRICAL
MIL-DTL-83413/8B	6150	CC			Connectors and Assemblies, Electrical, Aircraft Grounding: Type IV Jumper Cable Assembly, Lead, Electrical
MIL-DTL-83502E	5935	CC			Sockets, Plug-in Electronic Components, Round Style, General Specification for
MIL-DTL-83503C	5935	CC			Connectors, Electrical, Flat Cable, and/or Printed Wiring Board, Nonenvironmental, General Specification for
MIL-DTL-83517A	5935	CC			CONNECTOR, COAXIAL, RADIO FREQUENCY FOR COAXIAL, STRIP OR MICROSTRIP TRANSMISSION LINE GENERAL SPECIFICATION FOR
MIL-DTL-83527B SUP 1	5935	CC			CONNECTORS, PLUG AND RECEPTACLE, ELECTRICAL, RECTANGULAR MULTIPLE INSERT TYPE, RACK TO PANEL, ENVIRONMENT RESISTING, 150 C TOTAL CONTINUOUS OPERATING TEMPERATURE, GENERAL SPECIFICATION FOR
MIL-DTL-83538D	5935	CC			Connectors and Accessories, Electrical, Circular, Umbilical, Environment Resistant, Removable Crimp Contacts for MIL-STD-1760 Applications (METRIC), General Specification for
MIL-DTL-83733E	5935	CC			Connectors, Electrical Miniature, Rectangular Type, Rack to Panel, Environment Resisting, 200 Degrees C Total Continuous Operating

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Document ID	FSC/ Area	Prep Acty	Total DIDS	Acq Ref	Document Title
MIL-DTL-83734H SUP 1	5935	CC			Temperature, General Specification for Sockets, Plug-In Electronic Components, Dual-In-Line (DIPS) and Single-In-Line Packages (SIPS), General Specification for