

MILITARY SPECIFICATION

CONNECTORS, PLUG AND RECEPTACLE, ELECTRICAL (COAXIAL, SERIES TWIN), AND ASSOCIATED FITTINGS, GENERAL SPECIFICATION FOR

This amendment forms a part of Military Specification MIL-C-3655C, dated 11 April 1980, and is approved for use by all Departments and Agencies of the Department of Defense.

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3.4.3, delete and substitute: "3.4.3 Finish. Unless otherwise specified (see 3.1), center contacts shall be gold-plated to a minimum thickness of 0.000050 inch in accordance with MIL-G-45204, type II, class 1. Silver shall not be used as an underplate. All other metal parts shall be finished to provide a connector which meets the corrosion requirements of this specification."

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4.4.1: Delete "Nine" and substitute "Twelve".

4.4.2, last sentence, delete and substitute: "The sample shall then be divided equally into 4 groups of three units each and subjected to the inspection for their particular group."

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Table II, delete and substitute:

"TABLE II. Qualification inspection."

Inspection	Requirement paragraph	Test method paragraph
<u>GROUP I</u>		
Visual and mechanical examination <u>1/</u>	3.1, 3.4, 3.5, 3.7, 3.8	4.6.1
Force to engage/disengage	3.6.1	4.6.2
Coupling proof torque	3.6.2	4.6.3
Mating characteristics	3.6.3	4.6.4
Permeability of nonmagnetic materials	3.6.4	4.6.5
Hermetic seal (pressurized connectors)	3.6.5	4.6.6
Leakage (pressurized connectors)	3.6.6	4.6.7
Insulation resistance	3.6.7	4.6.8
<u>GROUP II</u>		
Salt spray (corrosion) (when specified)	3.6.9	4.6.10
<u>GROUP III</u>		
Connector durability (when specified)	3.6.10	4.6.11
<u>GROUP IV</u>		
Dielectric withstanding voltage	3.6.12	4.6.13
Contact resistance, inner contacts	3.6.11	4.6.12
Contact insulator captivation	3.6.8	4.6.9
Vibration, high frequency (when specified)	3.6.13	4.6.14
Shock (specified pulse)	3.6.14	4.6.15

See footnote at end of table.

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TABLE II. Qualification inspection - Continued.

Inspection	Requirement paragraph	Test method paragraph
<u>GROUP IV</u> - continued		
Temperature cycling (when specified)	3.6.15	4.6.16
Humidity (when specified)	3.6.16	4.6.17
Cable retention force (when specified)	3.6.17	4.6.18
Coupling nut retention	3.6.18	4.6.19
<u>GROUP V</u>		
Contact resistance	3.6.11	4.6.12

1/ Marking will be considered defective only if it is illegible at the completion of any of the required tests."

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Table V, delete and substitute:

"TABLE V. Group C inspection.

Inspection	Requirement paragraph	Test method paragraph
<u>GROUP I</u>		
Salt spray (corrosion) (when specified)	3.6.9	4.6.10
<u>GROUP II</u>		
Connector durability (when specified)	3.6.10	4.6.11
<u>GROUP III</u>		
Contact resistance, inner contacts	3.6.11	4.6.12
Contact insulator captivation	3.6.8	4.6.9
Vibration, high frequency (when specified)	3.6.13	4.6.14
Shock (specified pulse)	3.6.14	4.6.15
Temperature cycling (when specified)	3.6.15	4.6.16
Humidity (when specified)	3.6.16	4.6.17
Cable retention force (when specified)	3.6.17	4.6.18
Coupling nut retention	3.6.18	4.6.19
<u>GROUP IV</u>		
Contact resistance	3.6.11	4.6.12

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Custodians:

Army - CR
Navy - EC
Air Force - 85

Preparing activity:

Army - CR

(Project 5935-3400)

Review activities:

Army - MI
Navy - OS
Air Force - 11, 17, 99
DLA - ES

User activities:

Army - AT
Navy - MC, SH, AS
Air Force - 19

Agent:

DLA - ES