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INCH-POUND

MIL-C-5898D(USAF)
AMENDMENT 2
26 September 1989
SUPERSEDING
AMENDMENT 1
29 August 1986

MILITARY SPECIFICATION

CORDS, ELECTRICAL
(WF-5/U, WF-14/U, WD-34/U, WM-53/U, WM-85/U)

This amendment forms a part of MIL-C-5898D(USAF), dated 4 June 1985, and is approved for use by the Department of the Air Force and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

Add the following paragraph:

"1.2.1 Part number. The part number consists of the letter, "M" the basic number of this specification, followed by the type of cord and the number of conductors taken from table I.

Example: M5898- WF14U 4

Specification number

Type of cord

Number of conductors"

PAGE 2

* 2.1.1, military specification section, delete:

"MIL-Y-16698 - Yarn, Cotton."

* 2.1.1, federal standards section, add:

"FED-STD-313 - Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials, Furnished to Government Activities."

* 2.2, American Society for Testing Materials section, add:

"ASTM C930 - Standard Classification of Potential Health and Safety Concerns Associated with Thermal Insulation Materials and Accessories."

PAGE 3

* 3.2.4, delete and substitute:

"3.2.4 Insulation. The insulation compound for the individual conductors shall be formulated to provide a material to meet the electrical, cold bend, aging, and bending requirements as specified herein."

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PAGE 4

* 3.4.1, delete and substitute:

"3.4.1 Jacketing compound. The jacketing compound shall be low-temperature polychloroprene, crosslinked polyolefin, or polyurethane and shall meet the material and physical property requirements of table IV and operating temperature range and cold bend as specified in MIL-I-4997. (For the cold bend test, cord types WF-14/U and WM-85/U shall use a mandrel size 3.0 by outside diameter.)"

PAGE 6

TABLE V, delete and substitute:

"TABLE V. Isolation.

Frequency (HZ)	Electrostatic WF-14/U (db)	Electrostatic WM-85/U (db)	Electromagnetic WF-14/U (db)	Electromagnetic WM-85/U (db)
20,000	62	60	48	45
15,000	63	60.5	49	45
10,000	64	61	50	45
5,000	65	61.5	51	45
1,000	66	62	51	46

"

TABLE VI, delete and substitute:

"TABLE VI. Identification for marking.

Type	Military part number	Military specification	Manufacturer name
WM-53/U	M5898-WM53U5	MIL-C-5898(USAF)	*
WF-5/U	M5898-WF5U4	MIL-C-5898(USAF)	*
WF-14/U	M5898-WF14U4	MIL-C-5898(USAF)	*
WD-34/U	M5898-WD34U2	MIL-C-5898(USAF)	*
WM-85/U	M5898-WM85U5	MIL-C-5898(USAF)	*

* Applicable information to be supplied by the manufacturer."

PAGE 7

* 3.10, change title to read: "Insulation shrinkage."

* 3.11, delete and substitute:

"3.11 Ozone resistance. The finished cord shall be subject to the ozone resistance test as specified in 4.5.11. NOTE: The ozone resistance test is not required if polyurethane or crosslinked polyolefin material is used for jacket insulation compound."

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* TABLE VII, footnote 1, delete and substitute:

"1/ The ozone resistance test is not required if polyurethane or crosslinked polyolefin material is used for jacket insulation compound."

PAGE 10

* 4.4.3b, delete and substitute:

"b. Tinned copper wire in accordance with QQ-W-343."

* 4.4.3c, delete and substitute:

"c. Fungus resistance materials in accordance with MIL-STD-810."

* 4.4.3d, delete.

PAGE 12

* 4.5.10, delete and substitute:

"4.5.10 Solderability test (see 3.10). The outer jacket is to be stripped in approximately 3 inches (76.2 mm); each individual wire is to be stripped approximately 0.250 inch (6.35 mm). The bare wire is to be twisted by hand and remain at its minimum diameter in 5 twists or less and shall not spread or fray at the end. Solder in accordance with FED-STD-228, method 8231."

PAGE 14

FIGURE 2, delete: "Calculations: db - dBm reading of V_1 -dBm reading of V_2" and substitute:

"Calculations: db = dbm reading of V_1 -dbm reading of V_2".

PAGE 15

* 6.2, renumber to 6.3.

* 6.2b, renumber to 6.3b, delete and substitute:

"b. Type designation/military part number (see 1.2 and 1.2.1)."

* Add 6.2 as follows:

"6.2 Material, handling, and disposal. Caution should be taken during handling and disposal of all insulating and jacketing materials in accordance with ASTM C930 and FED-STD-313."

* 6.3, renumber to 6.4.

* Under agent, delete "DLA-IS", as changed in amendment 1, and substitute "DLA-ES".

The margins of this amendment are marked with asterisks to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

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CONCLUDING MATERIAL

Review activity:
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