

## M27500 Cable (NEMA WC27500)

This specification covers the requirements for electronic control cables used in aircraft and missile applications. These cables may be constructed from a variety of insulating materials having different characteristics. These cables can be obtained in configurations up to 15 conductors with just a shield, or just a jacket, or both single and double shields and jackets. Conductor colors are specified and the cable must be identified by methods described in the body of M27500.

### Cable Designation

Specification Number	ID method of cable wire & shield coverage	Conductor Size	Basic wire specification	Numbers of wires in cable	Shield style & materials	Jacket Material
M27500	-	22	SD	3	T	23

### Identification Method

Color Code for Shield Coverage		M27500 Terminology	Component Wire Identification Method
85%	90%		
-	C	Preferred method, Table A	White wires with colored stripes –stripe color per Table A
F	G	Preferred method, Table B	White wires with colored stripes –stripe color per Table B
A	D	Optional method A, Table A	Solid colored wire – colors per Table A
G	J	Optional method A, Table B	Solid colored wire – colors per Table B
B	E	Optional method B, Table C	Wires are the same color, based on AWG size (per Table C). Bands of contrasting color denotes wire number (per Table D)
K	M	Optional method C, Table C	Wires are the same color, based on AWG size (per Table C). Numbers of contrasting color printed to denote wire number
L	N	Optional method B, Table D	White wires with numbers of contrasting color printed on each wire to denote wire number

### Table A: Color Coding

- For “**preferred method**” color coding, colors are stripes on white insulation (wire #1 has no stripe). Wires 11 -15 have double stripes as indicated.
- For “**optional method**” color coding, colors are solid insulation color. Wires 11 -15 have a stripe in lighter shade of base color.

Wire Number	Color	Wire Number	Color	Wire Number	Color
1	White	6	Black	11	Blue/Blue
2	Blue	7	Yellow	12	Orange/Orange
3	Orange	8	Violet	13	Green/Green
4	Green	9	Gray	14	Red/Red
5	Red	10	Brown	15	Black/Black