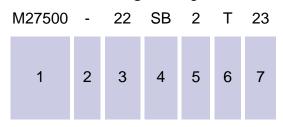
Mil-DTL-27500

All Mil-DTL-27500 cables are designated by a seven digit code that indicates the exact construction of each cable.



Please note the following example.



- 1. Military Specification- M27500 is used to designate Mil-DTL-27500.
- 2. Shield Coverage and Color Identification- a slash followed by a dash (-) or letter code indicates both shielding coverage and the method of color identification of primary core insulation as detailed in **Table A**. The example indicates 85% and white primaries with colored stripes.
- 3. Conductor Size- This position identifies the wire AWG. Judd Wire can manufacture cables utilizing wire AWG's of 30-2/0, depending on Basic Wire Specification.
- 4. Basic Wire Specification- The component wires are identified by a two letter code. Cables utilizing Judd Wire's components are detailed in **Table B**.
- 5. Number of Conductors- M27500 currently specifies from 1 to 15 conductors for shielded and jacketed cables, and from 2 to 15 for unshielded unjacketed or unshielded jacketed cables.
- Shield- The specific shield style and material are designated by a single letter code. Detailed in **Table** C.
- 7. Jacket- Cable jacketing materials are specified with a two digit code. Detailed in **Table D**.

The materials listed in the tables presented here are not meant to be the complete listing of wires, shields, or jackets available within Mil-DTL-27500. They represent wire styles manufactured by Judd Wire and the recommended shields and jackets that correspond to those wire styles. For a complete listing of the materials and requirements of Mil-DTL-27500 you must consult that document.

Back to Top

Table A

Identification Codes

Identification method of cable (with 85% shield coverage)	Optional identification method (with 90% shield coverage)	Statement taken from Mil-DTL-27500	Judd Wire description of the requirement from Mil-DTL-27500	
-	С	1101011001001011110001011	All wires are colored white with spiral stripes for identification.	
F	Н		All wires are colored white with spiral stripes for identification, but a different stripe color sequence is used.	

Mil-DTL-27500			
A	D	Optional identification method A, Table III A	All solid colors are used instead of white striped wires.
G	J	-	All solid colors are used instead of white striped wires, but a different color sequence is used.
В	E	-	All wires are the same solid color determined by the Table to denote the AWG. Color bands are added for individual conductor identification.
K	M	Optional identification method C	All wires are the same solid color determined by the Table to denote the AWG. Numbers are added for individual conductor identification.
L	N	Optional identification method D	All wires are white and numbers are added for individual conductor identification.
P	R	Optional identification method E	All wires are white with the same color spiral stripe added to denote AWG. Color bands are added for individual conductor identification.
S	Т	Optional identification method F	All wires are white with color bands added for individual conductor identification.

Back to Top

Table B Letter Code Base Description

Base Specification	Material Available	Description	Wire AWG
SB	Mil-W-22759/32	Single Insulation, Tin Coated Copper	30-12
SC	Mil-W-22759/33	Single Insulation, Silver Coated High Strength Copper Alloy	30-20
SD	Mil-W-22759/34	Dual Insulation, Tin Coated Copper	24-2/0
SE	Mil-W-22759/35	Dual Insulation, Silver Coated High Strength Copper Alloy	26-20
SM	Mil-W-22759/41	Dual Insulation, Nickel Coated Copper	26-2/0
SN	Mil-W-22759/42	Dual Insulation, Nickel Coated High Strength Copper Alloy	26-20
SP	Mil-W-22759/43	Dual Insulation, Silver Coated Copper	26-2/0
SR	Mil-W-22759/44	Single Insulation, Silver Coated Copper	28-12
SS	Mil-W-22759/45	Single Insulation, Nickel Coated Copper	28-12

ST	Mil-W-22759/46	Single Insulation, Nickel Coated High Strength Copper Alloy	28-20
WB	Mil-DTL-22759/80	Composite Insulation (Light weight), Tin Coated Copper	26-14
WC	Mil-DTL-22759/81	Composite Insulation (Light weight), Silver Coated High Strength or Ultra High Strength Copper Alloy	26-20
WE	Mil-DTL-22759/82	Composite Insulation (Light weight), Nickel Coated High Strength or Ultra High Strength Copper Alloy	26-20
WJ	Mil-DTL-22759/86	Composite Insulation (Normal weight), Silver Coated Copper	26-14
WK	Mil-DTL-22759/87	Composite Insulation (Normal weight), Nickel Coated Copper	26-14
WL	Mil-DTL-22759/88	Composite Insulation (Normal weight), Tin Coated Copper	26-14
WM	Mil-DTL-22759/89	Composite Insulation (Normal weight), Silver Coated High Strength or Ultra High Strength Copper Alloy	26-20
WN	Mil-DTL-22759/90	Composite Insulation (Normal weight), Nickel Coated High Strength or Ultra High Strength Copper Alloy	26-20
WP	Mil-DTL-22759/91	Composite Insulation (Light weight), Silver Coated Copper	26-14
WR	Mil-DTL-22759/92	Composite Insulation (Light weight), Nickel Coated Copper	26-14

Back to Top

Table C Shield Letter Code

Single Shield	Double Shield	Description		
U	-	No Shield		
T	V	Round, Tin Coated Copper		
S	W	Round, Silver Coated Copper		
N Y		Round, Nickel Coated Copper		
M K		Round, Silver Coated High Strength Copper Alloy		
P	L	Round, Nickel Coated High Strength Copper Alloy		
G A		Flat, Silver Coated Copper		
Н В		Flat, Silver Coated High Strength Copper Alloy		
*	#	Flat, Nickel Coated Copper		
J	D	Flat, Tin Coated Copper		

Table D Jacket Letter Code

Single Jacket	Double Jacket	Description	Temp. Rating
00	00	No Jacket	-
06	56	Extruded or taped and heat sealed white polytetra-fluoroethylene (PTFE)	260°C (500°F)
09	59	Extruded white fluorinated ethylene propylene (FEP)	260°C (500°F)
14	64	Extruded white, Ethylene- tetrafluoroethylene Copolymer (ETFE)	150°C (302°F)
23	73	White, crosslinked, extruded, modified, Ethylene-Tetrafluoroethylene Copolymer (XLETFE)	

Downloaded from Arrow.com.

Е	X	Flat, Nickel Coated High Strength Copper Alloy	24	74	Tape layer of white polytetrafluoroethylene (PTFE) wrapped over a tape layer of natural polyimide combined with FEP and heat sealed.	260°C (500°F)

Back to Top Catalog Index Previous Page