

INCH-POUND

A-A-59551

27 October 2000

SUPERSEDING

QQ-W-343G

18 April 1997

## COMMERCIAL ITEM DESCRIPTION

### WIRE, ELECTRICAL, COPPER (UNINSULATED)

The General Services Administration has authorized the use of this commercial item description (CID) for all federal agencies.

1. **SCOPE.** This CID covers solid, bunch-stranded, concentric-lay-stranded, and rope-lay-stranded round, uninsulated, copper conductors for use in electrical wire. Wires covered by this CID are intended to be used for electrical conductors in equipment and may be used as conductors in electrical cables.

2. **CLASSIFICATION.** Copper wires covered by this CID are of the following type, class, temper, size, and coating.

2.1 **Type.** The type designates the construction of the wire (see table I and 3.3). The following types are available (see 7.2):

- S - Solid single strand.
- C - Concentric-lay-stranding.
- R - Rope-lay-bunched member stranding.
- E - Rope-lay-concentric member stranding.
- B - Bunch-stranding.
- H - Hookup conductor.

2.2 **Class.** The class defines the construction details within a particular type wire (see 7.2). Type S wires are classified as class S for the purpose of this CID.

2.3 **Temper.** The available tempers per wire type are listed in table I (see 7.2).

2.4 **Wire size.** For solid wires of American Wire Gauge (AWG) 56 thru 0000 (4/0), the wire size is indicated by AWG size per ASTM B258. For all wires larger than 4/0, the size is indicated by the cross sectional area in circular mils (thousandths of an inch). For sizes of stranded wires smaller than 250,000 circular mils, the AWG number that is the closest but larger in size is used except for hookup wire (type H), in which only even AWG numbers are used.

2.5 **Coating.** The following wire coatings are available (see table I and 7.2):

- Uncoated
- Nickel (classes 2, 10, and 27 of ASTM B355)
- Silver
- Tin
- Nickel (class 10 of ASTM B355)
- Nickel (class 27 of ASTM B355)

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data that may improve this document should be sent to: Defense Supply Center Columbus (Attn: DSCC-VAI), P.O. Box 3990, Columbus, Ohio 43213-5000.

TABLE I. Temper and construction.

Type	Coatings Available <sup>1/</sup>	Tempers available	Shall conform to ASTM B	AWG range <sup>2/</sup>
S <sup>3/</sup>	Uncoated	Soft or drawn and annealed	3	40 thru 4/0
	Uncoated	Medium-hard drawn	2	18 thru 4/0
	Uncoated	Hard drawn	1	18 thru 4/0
	Tin coated	Soft or drawn and annealed	33	40 thru 4/0
	Tin coated	Medium hard drawn or hard drawn	246	16 thru 4
C	Uncoated or tin	Soft or medium-hard drawn or hard drawn	8	24-4/0 and 250000-500000 circular mils
R	Uncoated or tin	Soft or drawn and annealed	172	12-4/0 and 250000-200000 circular mils
E	Uncoated or tin	Soft or drawn and annealed	173	14-4/0 and 250000-500000 circular mils
B	Uncoated or tin	Soft or drawn and annealed	174	28-7
H <sup>3/</sup>	Tin	Annealed	286	10-30 even AWGs solid, 32-4/0 stranded
	Silver	Unannealed or annealed	298	8 thru 44
	Nickel <sup>4/</sup>	Unannealed or annealed	355	8 thru 40

## NOTES:

<sup>1/</sup> For information only.

<sup>2/</sup> For information only; see 3.3.1 for requirements.

<sup>3/</sup> The size requirements for 33 through 56 AWG are in table II.

<sup>4/</sup> Nickel coating should be used only when other options will not meet performance requirements.

## 3. SALIENT CHARACTERISTICS.

3.1 General. The individual item requirements shall be as specified herein and in accordance with the applicable ASTM standard. In the event of any conflict between the requirements of this CID and the applicable ASTM standard, the former shall govern.

3.2 Materials. The composition of the copper shall conform to ASTM B49.

3.3 Construction.

3.3.1 Solid wire (type S and type H – class S). Solid wires shall conform to and cover the range of wire sizes in the applicable ASTM standard specified in table I. The diameters and cross sectional areas shall be in accordance with ASTM B258. Solid wire of 33 through 56 AWG shall be in accordance with Table II.

3.3.2. Bunch-stranded wire (type B). Bunched stranded wire shall conform to the requirements of ASTM-B174. Table III shows wire classes, cross-sectional areas, strand sizes, strand counts, and wire size designators.

3.3.3 Concentric-lay-stranded wire (type C). Concentric-lay-stranded wire shall conform to ASTM B8. Table IV shows wire classes, cross sectional areas, strand counts, and wire size designators.

TABLE II. Small solid uninsulated wire dimensions.

Wire size designator	Approximate AWG size	Diameter, inches (nominal)
33	33	.00710
34	34	.00630
35	35	.00560
36	36	.00500
37	37	.00450
38	38	.00400
39	39	.00350
40	40	.00310
41	41	.00280
42	42	.00250
43	43	.00220
44	44	.00200
45	45	.00176
46	46	.00157
47	47	.00140
48	48	.00124
49	49	.00111
50	50	.00099
51	51	.00088
52	52	.00078
53	53	.00070
54	54	.00062
55	55	.00055
56	56	.00049

3.3.4 Rope-lay-stranded wire. Rope-lay-stranded wires shall conform to ASTM B173 for concentric-lay-stranded member (type E) and ASTM B172 for bunch-stranded members (type R). Table IV shows wire classes, cross sectional areas, strand counts, and wire size designators for type E wire. Table V shows wire classes, cross sectional areas, strand counts, and wire size designators for type R wire.

3.3.5 Hookup wire (type H). Hookup wire shall conform to the requirements of ASTM B286. Table VI shows wire size designators, classes, and strand counts. Type S wire used for hookup and interconnect wire is superseded by type H, class S wire.

3.3.6 Splices. Splices shall not be made in wire, except as permitted by the applicable ASTM standard. Splices shall be so constructed and distributed throughout the wire that the diameter, configuration, resistance, flexibility, and mechanical strength of the completed wire shall not be adversely affected.

3.3.7 Conductor coatings. Conductor coatings (see 2.5) shall be in accordance with the applicable ASTM standard in table I.

3.4 Performance. All wire shall comply with the requirements of the applicable ASTM standard.

3.4.1 Solderability (type H only). All finished wires shall provide good electrical and mechanical solder joints when tested in accordance with Method 208 of MIL-STD-202, and shall have a minimum solder coverage of 95%. This requirement is not applicable to nickel-coated conductors.

3.4.2 Elongation of 33 through 44 AWG wires only. Wire sizes 33 through 40 AWG shall have a minimum elongation of 15 percent and wire sizes 41 through 44 AWG shall have a minimum elongation of 10 percent. The percentage of elongation shall be calculated from the travel distance of the testing machine's gripping jaw at the instant of break of a 10 inch wire sample elongated at the rate of 12 inches  $\pm$ 1 inch per minute. A test that results in a break within 0.25 inches of either gripping jaw shall be repeated with a new sample.

TABLE III. Construction details for type B wire. <sup>1/</sup>

Wire size designator	Cross sectional area (circular mils)	Approximate American Wire Gauge (AWG) size <sup>2/</sup>	Strand count							
			Type B							
			Class I 24 AWG strands	Class J 28 AWG strands	Class K 30 AWG strands	Class L 32 AWG strands	Class M 34 AWG strands	Class O 36 AWG strands	Class P 38 AWG strands	Class Q 40 AWG strands
67	211600	0000	-	-	-	-	-	-	-	-
66	167800	000	-	-	-	-	-	-	-	-
65	133100	00	-	-	-	-	-	-	-	-
64	105600	0	-	-	-	-	-	-	-	-
01	83690	1	-	-	-	-	-	-	-	-
02	66360	2	-	-	-	-	-	-	-	-
03	52620	3	-	-	-	-	-	-	-	-
04	41740	4	104 <sup>4/</sup>	-	-	-	-	-	-	-
05	33090	5	-	-	-	-	-	-	-	-
06	26240	6	65 <sup>4/</sup>	-	-	-	-	-	-	-
07	20820	7	52	-	-	-	-	-	-	-
08	16510	8	41	-	-	-	-	-	-	-
09	13090	9	33	-	-	-	-	-	-	-
10	10380	10	26	65	104	165	-	-	-	-
12	6534	12	-	41	65	104	-	-	-	-
14	4110	14	-	26	41	65	104	-	-	-
16	2580	16	-	16	26	41	65	104	165	-
18	1620	18	-	10	16	26	41	65	104	165
20	1020	20	-	7	10	16	26	41	65	104
22	640	22	-	-	7	10 <sup>3/</sup>	19	26 <sup>4/</sup>	41 <sup>4/</sup>	65
24	404	24	-	-	-	7	-	19 <sup>5/</sup>	26 <sup>4/</sup>	41 <sup>4/</sup>
26	253	26	-	-	-	-	7	10 <sup>4/</sup>	16 <sup>4/</sup>	26 <sup>4/</sup>
28	159	28	-	-	-	-	-	7	10 <sup>4/</sup>	16 <sup>4/</sup>
30	100	30	-	-	-	-	-	-	7	10 <sup>4/</sup>
32	64	32	-	-	-	-	-	-	-	-

## NOTES:

<sup>1/</sup> Number 23 AWG has been dropped.<sup>2/</sup> For number 10 AWG and smaller wire, the AWG chosen for stranded wires is the number nearest the even numbered solid wire with a larger cross sectional area.<sup>3/</sup> Inactive for new design.<sup>4/</sup> Not covered by ASTM standards.<sup>5/</sup> Replace with 16 strands.

TABLE IV. Construction details (type C and type E wire). <sup>1/</sup>

Wire size designator	Cross sectional area (circular mils)	Approximate AWG size <sup>2/</sup>	Strand count						
			Type C					Type E	
			Class AA	Class A	Class B	Class C	Class D	Class G	Class H
99	5000000	-	-	169	217	-	271	1159	1729
98	4500000	-	-	169 <sup>3/</sup>	217 <sup>3/</sup>	-	271 <sup>3/</sup>	1159	1729
97	4000000	-	-	169 <sup>3/</sup>	217 <sup>3/</sup>	-	271 <sup>3/</sup>	1159	1729
96	3500000	-	-	127 <sup>3/</sup>	169 <sup>3/</sup>	217 <sup>3/</sup>	271 <sup>3/</sup>	1159	1729
95	3000000	-	-	127	169	217	271	1159	1729
94	2500000	-	-	91	127	169	217	703	1159
93	2000000	-	-	91	127	169	217	703	1159
92	1900000	-	-	91 <sup>3/</sup>	127 <sup>3/</sup>	169 <sup>3/</sup>	217 <sup>3/</sup>	703	1159
91	1900000	-	-	91 <sup>3/</sup>	127 <sup>3/</sup>	169 <sup>3/</sup>	217 <sup>3/</sup>	703	1159
90	1750000	-	-	91	127	169	217	703	1159
89	1700000	-	-	91 <sup>3/</sup>	127 <sup>3/</sup>	169 <sup>3/</sup>	217 <sup>3/</sup>	703	1159
88	1600000	-	-	91 <sup>3/</sup>	127 <sup>3/</sup>	169 <sup>3/</sup>	217 <sup>3/</sup>	703	1159
87	1500000	-	-	61	91	127	169	427	703
86	1400000	-	-	61 <sup>3/</sup>	91 <sup>3/</sup>	127 <sup>3/</sup>	169 <sup>3/</sup>	427	703
85	1300000	-	-	61 <sup>3/</sup>	91 <sup>3/</sup>	127 <sup>3/</sup>	169 <sup>3/</sup>	427	703
84	1250000	-	-	61	91	127	169	427	703
83	1200000	-	-	61 <sup>3/</sup>	91 <sup>3/</sup>	127 <sup>3/</sup>	169 <sup>3/</sup>	427	703
82	1100000	-	-	61 <sup>3/</sup>	91	127	169 <sup>3/</sup>	427	703
81	1000000	-	37	-	61	91	127	427	703
80	900000	-	37 <sup>3/</sup>	-	61 <sup>3/</sup>	91 <sup>3/</sup>	127 <sup>3/</sup>	427	703
79	800000	-	37	-	61	91	127	427	703
78	750000	-	37	-	61	91	127	427	703
77	700000	-	37	-	61	91	127	427	703
76	650000	-	37 <sup>3/</sup>	-	61 <sup>3/</sup>	91	127 <sup>3/</sup>	427	703
75	600000	-	-	37	61	91	127	427	703
74	550000	-	-	37 <sup>3/</sup>	61 <sup>3/</sup>	91 <sup>3/</sup>	127 <sup>3/</sup>	427	703
73	500000	-	19	-	37	61	91	427	427
72	450000	-	19 <sup>3/</sup>	-	37 <sup>3/</sup>	61 <sup>3/</sup>	91 <sup>3/</sup>	259	427
71	400000	-	-	19	37	61	91	259	427
70	350000	-	12	19	37	61	91	259	427
69	300000	-	12	19	37	61	91	259	427
68	250000	-	12	19	37	61	91	259	427

TABLE IV. Construction details (type C and type E wire) (Continued). <sup>1/</sup>

Wire size designator	Cross sectional area (circular mils)	Approximate American Wire Gauge size <sup>2/</sup>	Strand count						
			Type C					Type E	
			Class AA	Class A	Class B	Class C	Class D	Class G	Class H
67	211600	0000	-	7	19	37	61	133	259
66	167800	000	-	7	19	37	61	113	259
65	133100	00	-	7	19	37	61	133	259
64	105600	0	-	7	19	37	37	133	259
01	83690	1	3	-	7	37	61	49	259
02	66360	2	3	-	7	19	37	49	133
03	52620	3	3	-	7	19	37	49	133
04	41740	4	3	-	7	19	37	49	133
05	33090	5	-	-	7	19	37	49	133
06	26240	6	-	-	7	19	37	49	133
07	20820	7	-	-	7	19	37	49	133
08	16510	8	-	-	7	19	37	49	133
09	13090	9	-	-	7	19	37	49	133
10	10380	10	-	-	7	19	37	49	-
12	6534	12	-	-	7	19	37	49	-
14	4110	14	-	-	7	19	37	49	-
16	2580	16	-	-	7	19	-	-	-
18	1620	18	-	-	7	19	-	-	-
20	1020	20	-	-	7	19	-	-	-
22	640	22	-	-	7	19	-	-	-
24	404	24	-	-	7	19	-	-	-
26	253	26	-	-	-	-	-	-	-
28	159	28	-	-	-	-	-	-	-
30	100	30	-	-	-	-	-	-	-
32	64	32	-	-	-	-	-	-	-

## NOTES:

<sup>1/</sup> Number 23 AWG has been dropped.<sup>2/</sup> For number 10 AWG and smaller wire, the AWG chosen for stranded wires is the number nearest the even-numbered solid wire with a larger cross sectional area.<sup>3/</sup> Inactive for new design.

TABLE V. Construction details for type R wire. <sup>1/</sup>

Wire size designator	Cross sectional area (circular mils)	Approximate American Wire Gauge size <sup>2/</sup>	Strand count			Wire size designator	Cross sectional area (circular mils)	Approximate American Wire Gauge size <sup>2/</sup>	Strand count		
			Type R						Type R		
			Class I 24 AWG strands	Class K 30 AWG strands	Class M 34 AWG strands				Class I 24 AWG strands	Class K 30 AWG strands	Class M 34 AWG strands
99	500000	-	-	-	-	70	350000	-	980	3990	10101
98	450000	-	-	-	-	69	300000	-	882	3458	8806
97	400000	-	-	-	-	68	250000	-	735	2989	7581
96	350000	-	-	-	-	67	211600	0000	637	2499	6384
95	300000	-	-	-	-	66	167800	000	532	2107	5320
94	250000	-	-	-	-	65	133100	00	418	1666	4256
93	200000	-	-	-	-	64	105600	0	342	1323	3325
92	190000	-	4921	-	-	01	83690	1	266	1064	2646
91	190000	-	4788	-	-	02	66360	2	210	836	2107
90	175000	-	4522	-	-	03	52620	3	161	665	1666
89	170000	-	4389	-	-	04	41740	4	133	532	1323
88	160000	-	4256	-	-	05	33090	5	105	420	1064
87	150000	-	3990	-	-	06	26240	6	84	336	836
86	140000	-	3724	-	-	07	20820	7	63	266	665
85	130000	-	3458	-	-	08	16510	8	-	210	532
84	125000	-	3192	-	-	09	13090	9	-	168	420
83	120000	-	3059	-	-	10	10380	10	-	133	326
82	110000	-	2926	-	-	12	6534	12	-	-	259
81	100000	-	2793	-	-	14	4110	14	-	-	168
80	90000	-	2527	10101	25913	16	2580	16	-	-	-
79	80000	-	2261	9065	22631	18	1620	18	-	-	-
78	75000	-	1995	7980	20069	20	1020	20	-	-	-
77	70000	-	1862	7581	18788	22	640	22	-	-	-
76	65000	-	1729	6916	17507	24	404	24	-	-	-
75	60000	-	1596	6517	16226	26	253	26	-	-	-
74	55000	-	1470	5985	14945	28	159	28	-	-	-
73	50000	-	1372	5453	13664	30	100	30	-	-	-
72	45000	-	1225	5054	12691	32	64	32	-	-	-
71	40000	-	1127	4522	11396						

## NOTES:

1/ Number 23 AWG has been dropped.

2/ For number 10 AWG and smaller wire, the AWG chosen for stranded wires is the number nearest the even numbered solid wire with a larger cross sectional area.

TABLE VI. Construction details (type H wire).

Wire size designator	Approximate AWG size <sup>1/</sup>	Strand count						
		Class B	Class C	Class E	Class F	Class J	Class K	Class S
67	4/0						2109	
66	3/0						1672	
65	2/0						1330	
64	0					1045	1064	
01	1					817	836	
02	2						665	
04	4				133		420	
06	6				133		266	
08	8				133		168	
10	10			37	49	104	105	1
12	12		19	37		65		1
14	14		19		41			1
16	16		19	26				1
18	18	7	19	26				1
20	20	7	10	19				1
22	22	7		19				1
24	24	7		19				1
26	26	7		19				1
28	28	7						1
30	30	7	10					1

## NOTES:

1/ Except for 3/0 and 1, the AWG number chosen for stranded wires is the number for the nearest even numbered solid wire with a larger cross sectional area.

3.5 Workmanship. Each solid wire and strand shall be uniform in cross section and free from injurious flaws, scales, and other imperfections.

4. REGULATORY REQUIREMENTS. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

## 5. PRODUCT CONFORMANCE.

5.1 Product Conformance. The products provided shall meet the salient characteristics of this CID; conform to the producer's own drawings, specifications, standards, and quality assurance practices; and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

5.2 Market Acceptability. The item offered must have been sold to the Government or the commercial market.

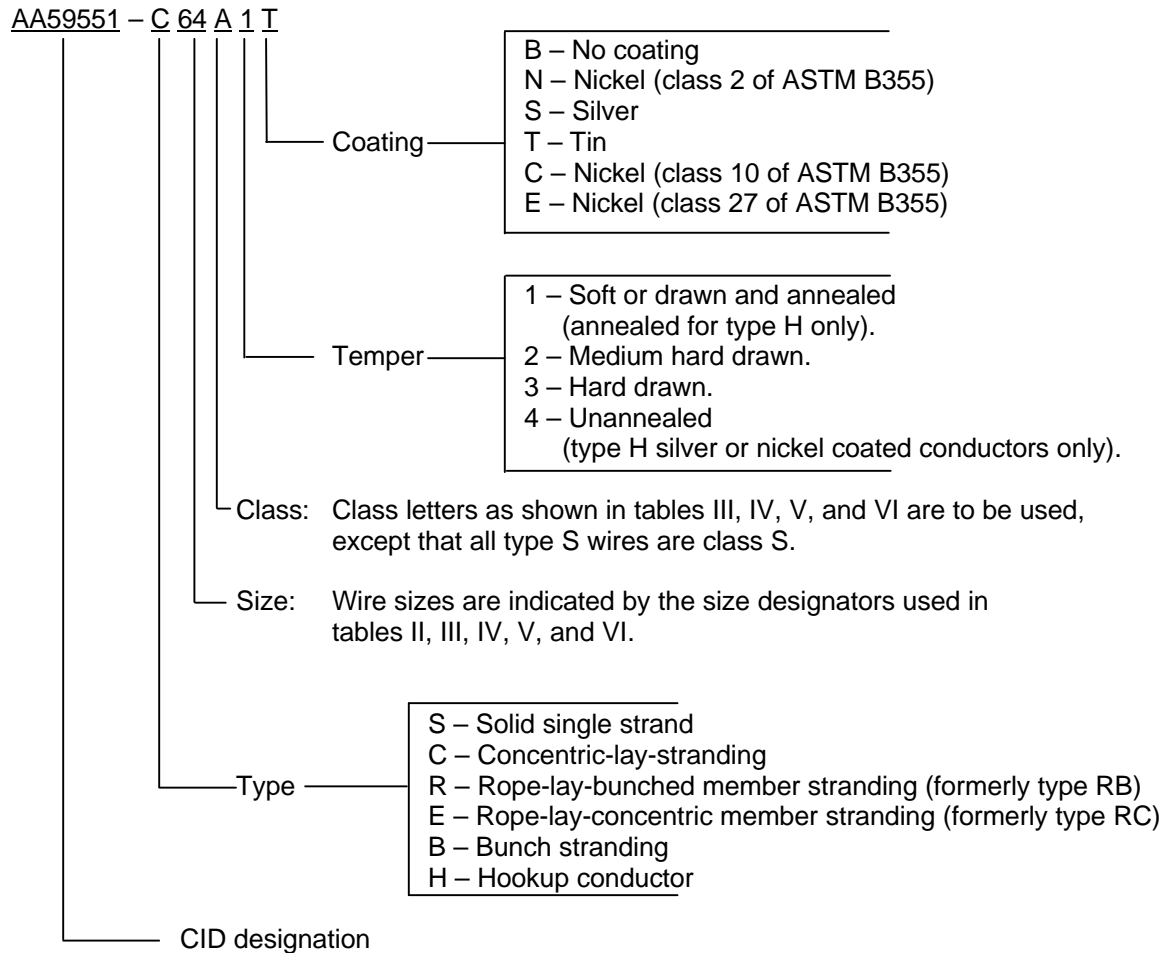
6. PACKAGING. Preservation, packing, packaging, and marking shall be as specified in the contract or order (see 7.2).



## 7. NOTES.

7.1 Part or Identification Number (PIN). The following part or identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.

The PIN is made up of the basic CID number and a five-element alphanumeric dash number.

Example of PIN:

7.2 Ordering data. The contract or order should specify the following:

- Title, symbol, and date of this CID.
- Type of wire (see 2.1).
- Class of wire (see 2.2).
- Temper of wire (see 2.3).
- Size of wire (see 2.4).
- Wire coating (see 2.5).
- Quantity of wire.
- Packaging requirements (see 6).

### 7.3 Source of documents.

7.3.1 Copies of the referenced ASTM standards may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM B1	-	Hard-Drawn Copper Wire (DoD Adopted)
ASTM B2	-	Medium-Hard Drawn Copper Wire (DoD Adopted)
ASTM B3	-	Soft or Annealed Copper Wire (DoD Adopted)
ASTM B8	-	Concentric-Lay-Stranded Copper Conductors, Hard Medium-Hard, or Soft (DoD Adopted)
ASTM B33	-	Tinned Soft or Annealed Copper Wire for Electrical Purposes (DoD Adopted)
ASTM B49	-	Hot Rolled Copper Redraw Rod for Electrical Purposes (DoD Adopted)
ASTM B172	-	Rope-Lay Stranded Copper Conductors having Bunch-Stranded Members for Electrical Conductors (DoD Adopted)
ASTM B173	-	Rope-Lay Stranded Copper Conductors having Concentric-Stranded Members for Electrical Conductors (DoD Adopted)
ASTM B174	-	Bunch-Stranded Copper Conductors for Electrical Conductors (DoD Adopted)
ASTM B246	-	Tinned Hard-Drawn and Medium-Hard-Drawn Copper Wire for Electrical Purposes (DoD Adopted)
ASTM B258	-	Standard Nominal Diameters and Cross Sectional Areas of AWG Sizes of Solid Round Wires Used as Electrical Conductors (DoD Adopted)
ASTM B286	-	Copper Conductors for Use in Hookup Wire for Electronic Equipment (DoD Adopted)
ASTM B298	-	Silver-Coated Soft or Annealed Copper Wire (DoD Adopted)
ASTM B355	-	Nickel-Coated Soft or Annealed Copper Wire (DoD Adopted)

7.3.2 Copies of the referenced military and federal specifications and standards may be obtained from the Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

MIL-STD-202 Test Methods for Electronic and Electrical Components Parts

7.3.3 The Federal Acquisition Regulation (FAR) may be obtained from the Superintendent of Documents, US Government Printing Office, Washington, D.C. 20402.

7.4 National Stock Numbers (NSNs). Table VII lists the NSNs that are found in Government listings as using this document.

TABLE VII. Document-related NSNs.

Wire Type	Temper	Coating	Class	Size	NSN	
B	1	B	K	10	6145-00-170-9414	
		T	I	08	6145-01-157-2046	
					6145-01-159-4545	
			K	12	6145-01-357-6284	
					16	6145-00-578-6866
					22	6145-00-857-6903
					18	6145-00-191-8454
		O	24	6145-00-643-1274		
				26	6145-01-371-5752	

TABLE VII. Document-related NSNs. (Continued)

Wire Type	Temper	Coating	Class	Size	NSN		
C	1	B	B	70	6145-00-059-9782		
				68	6145-00-059-9781		
				67	6145-00-059-9780		
					6145-01-124-1312		
				65	6145-00-059-9779		
				64	6145-00-059-9776		
					6145-01-235-2177		
				02	6145-00-059-9775		
					6145-00-027-7351		
				04	6145-00-500-2973		
			6145-00-059-9777				
			06	6145-01-226-9164			
			20	6145-00-240-9795			
			C	B	04	6145-00-500-1835	
					06	6145-00-059-9778	
					06	6145-00-395-8799	
			T	B	14	6145-00-128-8695	
					16	6145-00-617-0352	
					16	6145-00-583-0314	
	6145-01-282-5710						
	C	20		6145-00-057-4766			
		22		6145-00-144-0210			
		2		B	AA	81	6145-00-857-1845
						78	6145-00-857-1843
	73		6145-00-857-1841				
	A		68		6145-00-857-1835		
			02		6145-00-857-1827		
			04		6145-00-857-1830		
	B	70	6145-00-857-1837				
		67	6145-00-857-1821				
			6145-00-299-6211				
	65	6145-00-299-6212					
	64	6145-00-299-4453					
B	67	6145-00-950-7983					
	02	6145-00-299-6213					
	06	6145-00-299-4456					
	08	6145-00-756-2629					
T	B	04	6145-00-170-6467				
3	B	AA	81	6145-00-857-1844			
			73	6145-00-857-1839			
			70	6145-00-857-1838			
			02	6145-00-857-1829			

TABLE VII. Document-related NSNs. (Continued)

Wire Type	Temper	Coating	Class	Size	NSN
C	3	B	A	70	6145-00-857-1836
				68	6145-00-857-1834
				67	6145-00-857-1822
				65	6145-00-299-4387
					6145-00-857-1823
					6145-00-857-1824
			B	64	6145-00-857-1826
E	1	B	G	04	6145-00-023-6778
			H	02	6145-01-293-5464
		T	G	06	6145-00-164-6939
			H	02	6145-00-284-0632
H	1	B	S	24	6145-01-457-3976
		N	S	18	6145-01-285-4071
				6145-01-370-1242	
		T	S	12	6145-01-400-0462
				14	6145-01-400-0458
				16	6145-01-351-1424
				18	6145-01-358-6718
				20	6145-01-310-4020
				22	6145-01-290-9351
				24	6145-01-335-3447
					6145-01-332-7459
				26	6145-01-335-3448
		28	6145-01-348-8599		
	30	6145-01-351-7441			
	4	S	S	20	6145-01-418-9108
24	6145-01-245-3868				
R	1	B	K	04	6145-00-828-8371
			M	10	6145-00-818-3613
		T	M	04	6145-00-174-1302
				06	6145-00-052-6720
				08	6145-01-247-9460
				10	6145-00-643-4307
				12	6145-00-689-7447
S	1	B	S	10	6145-00-243-5828
				12	6145-00-238-3409
				14	6145-00-238-3407
				16	6145-00-299-5186
				18	6145-00-236-9491
				20	6145-00-236-9489
				22	6145-00-669-6564

TABLE VII. Document-related NSNs. (Continued)

Wire Type	Temper	Coating	Class	Size	NSN
S	1	B	S	24	6145-00-236-9503
				26	6145-00-236-9501
				28	6145-00-234-4993
				30	6145-00-234-4991
				34	6145-00-236-9483
				36	6145-00-581-9480
		N	S	16	6145-01-441-9150
				20	6145-01-441-9149
				22	6145-01-441-9152
		S	S	24	6145-01-441-8571
				18	6145-01-435-3202
				20	6145-00-538-8506
				22	6145-00-935-8635
				24	6145-00-935-8634
		T	S	30	6145-01-245-7292
				10	6145-00-128-8686
				12	6145-00-660-8584
				14	6145-00-681-8372
				16	6145-00-128-8696
				18	6145-00-669-6642
				20	6145-00-839-7432
				20	6145-01-004-6340
				22	6145-00-160-4775
				24	6145-00-577-3420
				26	6145-00-838-9444
				28	6145-00-982-8397
				30	6145-00-548-2672
	34			6145-00-593-3782	
	36			6145-01-244-1205	
	2	B	S	43	6145-00-006-8537
				48	6145-01-149-5423
				10	6145-00-061-6865
				12	6145-00-838-9874
				14	6145-00-161-5415
				16	6145-01-217-3022
				18	6145-00-299-4459
20				6145-01-242-1938	
22		6145-01-253-6696			
S	S	24	6145-01-258-8570		
		26	6145-01-400-0460		
		28	6145-01-198-5914		

TABLE VII. Document-related NSNs. (Continued)

Wire Type	Temper	Coating	Class	Size	NSN
S	2	T	S	12	6145-01-215-0174
				14	6145-01-313-1420
				16	6145-00-833-5236
				18	6145-00-836-6916
				20	6145-01-383-8771
				24	6145-01-200-4055
				26	6145-01-200-4054
				30	6145-01-155-9297
	3	B	S	10	6145-00-256-3984
				14	6145-00-500-0983
				22	6145-00-229-9844
				24	6145-01-288-1579
		T	S	26	6145-01-397-5501
				12	6145-01-185-3720
				14	6145-00-129-9319
				16	6145-01-269-4406
				18	6145-01-288-2151

## MILITARY INTERESTS:

## Custodians:

Army - CR  
 Navy - AS  
 Air Force - 11  
 DLA - CC

## Preparing Activity:

DLA - CC

(Project 6145-2285)

## Review Activities:

Army - AR, MI  
 Navy - CG, MC, SH  
 Air Force - 06, 99  
 DTRA - DS