INCH-POUND J-W-1177/33 June 10, 1988

FEDERAL SPECIFICATION SHEET

WIRE, MAGNET, ELECTRICAL, CLASS 180, TYPE GO, GLASS-FIBER-COVERED, ORGANIC VARNISH TREATED, RECTANGULAR

This specification is approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

The requirements for acquiring the wire described herein shall consist of this specification and the latest issue of J-W-1177.

Classification:	Class 180; type G20 (bare with double glass fiber covered, varnished), type L2GO and type L2G20 (heavy film, single or double glass fiber covered, varnished); rectangular.
Insulating materials:	The fiber covering and application of the covering shall be as specified in J-W-1177. If an under- lying film coating is used, it shall have a class 155 rating. The varnish used in treating fibrous covered wire shall conform to the requirements of class 180 of MIL-I-24092, or an alternate selected on the basis of equivalent test data. The varnish shall be a high temperature non-silicone insulating varnish. The varnish used shall be identified in the qualification test report.
NEMA/ANSI equivalent:	All test requirements are equivalent to MW-52 of NEMA MW 1000.
General requirements:	See J-W-1177 for general requirements, quality assurance provisions, and packaging.

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Requirements:

Characteristics	Test procedure, see J-W-1177	Wire sizes, AWG	Requirements
Dimensions	4.7.1.2	A11	<pre>Rectangular wire: (a) Conductor dimensions and radii - see table I. (b) Conductor tolerances - see table II. (c) Increase in thickness - see table III (type L2GO), table IV (type G2O) and table V (type L2G2O). (d) Increase in width due to the glass fiber covering shall be equal to or less than the increase in thickness. Square wire: (a) Conductor dimensions, radii and tolerances - see table VI. (b) Increase in thickness and width - see table VI.</pre>
Adherence and flexibility	4.7.2.3.1	All	For bare wire, not less than 75 volts/mil of minimum thickness of the glass fiber covering on one side.
	4.7.2.3.2	All	For film coated wire, no cracks visible in the film coating after 20 percent elongation. Examine with normal vision without removal of the glass fiber covering.
Elongation .	4.7.5	All	Not less than 32 percent for thicknesses of 0.049 inch and greater, or 30 percent for thicknesses less than 0.049 inch.
Dielectric strength	n 4.7.9	A11	Not less than 90 volts/mil of the minimum thickness of the glass fiber covering on one side (one-half the minimum specified under "Dimensions") plus the minimum breakdown for film coated wire.
Thermal endurance		A11	Class 180. Insulating materials shall meet the thermal class ratings as described above.

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Nominal	Γ																					نة (من المار المار مراجع المار الم م											
thickness														No	om:	ina	1	W:	id	th			_						_				
Inch	•079	1/.083	1 1	1/.093	.098	1/.104	.110	1/ 118		1/.132		1/.148	.157	1/.167		1/.187		1/.209	1	1/.236	1	1/.264	1 1	1/.295		1/.335		1/.374	1	1/.417	.441	1/.465	492
0.025						į							1	1																			
.028			Π																														
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.039			\square		\square							I	ROI	UNI)EI) F	EDO	GES	5										Γ				
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TABLE I. Dimensions and radii for rectangular wire.

1/ R-40 series numbers.
Radii tolerances are plus
or minus 25 percent.EXAMPLE - Preferred sizes55 x 110 (R20 x R20)
Intermediate.sizes55 x 118 (R20 x R40)

TABLE]	II.	Conductor	tolerances.

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Thickness, inch	Permissible variations in thickness
0.220 to 0.098	+ 1 percent
Under 0.098 to 0.025	+ 0.001 percent
Width, inch	
0.492 to 0.315	<u>+</u> 0.003 inch
Under 0.315 to 0.098	<u>+</u> 1 percent
Under 0.098 to 0.079	<u>+</u> 0.001 inch

L2G0).	
(type	
Dimensions	
III.	
TABLE	

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J-W-1177/33

	due to erature organic varnish,	Nominal thickness	9.50 10.0 Millimeters	267.0 597.0/1 177.0 217.0/1 768.0 728.0/1	0.025 0.63	.026 .71			.039 1		.049 1.25	+	-	+	-+	+	-	+		.140 3.55	_	.177 4.50	.197 5.00	.220 5.60
*THOUSTONS VEILE TOOL	s, inches (mm), ng and high temp wire	l width	00.6 02.8 00.8 02.7 01.7 07.8 07.8 07.8 07.8 00.8 00.8 00.8 00	0.354 0.354 0.315 0.250 0.					0.014 inch 0.015 inch	(0.356 mm) (0.381 mm)														
	Maximum increase in thi covering. Heavy film rectar	Nominal	<pre></pre>	860.0 810.10.10 10.10					0.013 inch	(0.330 mm)														
	l glass fiber		5.37 5.12 5.12	620.0/1 880.0 630.0/1 670.0		r	,]0.012 i	(0.305 mm)				[_									
	single gl	thickness	Millimeters	Inches	0.025	.026	.031	•035	•039	.044	.049	.055	.063	.071	•079	.088	.098	.110	.124	.140	.157	.177	.197	.220
		Nominal	Millin		0.63	.71	.80	06•	1.00	1.12	1.25	1.40	1.60	1.80	2.00	2.24	2.50	2.80	3.15	3.55	4.00	4.50	5.00	5.60

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1/ R-40 series intermediate number.

EXAMPLE - Preferred size 0.055 x 0.110 (R-20 x R-20) Intermediate size 0.055 x 0.118 (R-20 x R-40)

NOTES:

- 1. The maximum increase due to the glass fiber covering may be exceeded provided the overall dimension of the covered wire does not exceed the sum of the maximum thickness of the bare wire plus the maximum increase due to the heavy film coating and single glass fiber covering.
- The increase in thickness due to the heavy film coating shall be for film coated wire.
- 3. The increase in thickness due to the single glass fiber covering shall be determined by subtracting 0.005 inch (0.127 mm) (maximum thickness of film coating) from the maximum increase in thickness given in the table.
- 4. The increase in width due to the glass fiber covering shall be equal to or less than the maximum increase in thickness given in the table. Note 1 applies to the increase in width as well as the increase in thickness.
- 5. Because it is impossible to accurately separate the glass fiber covering from the film coating, the total minimum increase in the thickness of the film-coated glass fiber covered rectangular wire shall be the sum of the minimum increase due to the film coating (as shown for filmcoated wire) and the minimum increase due to the glass-fiber covering. The total minimum increase shall be not less than 70 percent of the maximum increase given in the table above, rounded to the nearest 0.001 inch (0.025 mm).
- 6. For direct conversion of inches to millimeters, multiply inches by the factor 25.4 (exact).

G20).
(type
Dimensions
IV.
TABLE

		1	11	11	duo ro		
	Maximum increase double glass fiber cove	- 1	in unickness, in ing and high tem rectangular wire		rgani		
Nominal thickness	-	Nominal	width			Nominal thickness	SS
Millimeters	3.32 3.12 3.12 5.80 5.80 5.20 5.32 5.32 5.37 5.15	+ · <u>12</u> + · 20 + · 52 + · 00 - + · 00 	00.30 9.00 2.30 05.00 2.00	05.8 00.8 05.7 01.7 07.9	0.00 10.0 10.0 10.0 10.0 10.0	Millimeters	
0.079 Inches	1/0.135 0.124 0.124 0.125 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100	<u> </u>	0 [•] 539 1/0 [•] 539 0 [•] 550 1/0 [•] 506	1/0 ³³² 512 ⁰ 562 ⁰ 087 ⁰ 797 ⁰	0.465 <u>1\0.462</u> <u>0.471</u> <u>0.471</u> <u>0.364</u> <u>0.364</u> <u>0.324</u> <u>0.324</u>	Inches	
0.63 0.025						0.025 0.63	
.71							
_							Τ
•035						_	T
1.00 .039 0.	0.012 inch 0.013 inch (0.330 mm)	0.014 inch	0.015 Inch 0 (0.381 m) (0.016 frich (0.406 mm)	0.018 inch	.039 1.00 .044 1.12	-1-
670					(mm / C+•0)		Τ
<u> </u>							
			<u> </u>			1.	
1.80 .071	 						Τ
2.00 .079						\rightarrow	T
2.24 .088						-+	
2.50 .098			<u>.</u>			\dashv	T
2.80 .110						.110 2.80	Ī
3.15 .124		 [Τ
		[0.01 1nch	ch	0.019	+	Τ
•			(0.432	(冒	(0.483	-+	
4.50 .177						-+	
					[-+	Τ
5.60 .220						.220 5.60	

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See footnote at top of next page.

1/ R-40 series intermediate number.

 EXAMPLE - Preferred size
 0.055 x 0.110 (R-20 x R-20)

 Intermediate size
 0.055 x 0.118 (R-20 x R-40)

NOTES:

- 1. The maximum increase due to the glass fiber covering may be exceeded provided the overall dimension of the covered wire does not exceed the sum of the maximum thickness of the bare wire plus the maximum increase due to the glass fiber covering.
- 2. The minimum increase due to the glass fiber covering shall be not less than 70 percent of the maximum shown in the table above, rounded to the nearest 0.001 inch (0.025 mm).
- 3. The increase in width due to the glass fiber covering shall be equal to or less than the maximum increase in thickness given in the table. Note 1 applies to the increase in width as well as the increase in thickness.
- For direct conversion of inches to millimeters, multiply inches by the factor 25.4 (exact).

L2G20).	
(type	
Dimensions	
۷.	
TABLE	

	thickness	Millimeters	S	5 0.63 8 .71 8 .71 9 .71 9 1.00 9 1.25 9 1.25 9 1.25 9 1.25 9 1.25 9 1.25 9 1.25 9 1.25 9 1.25 9 1.25 9 2.24 8 2.250 0 3.55 0 3.55 7 4.00 7 4.50 0 5.60
	Nominal	MIII	Inches	0.025 .031 .031 .035 .039 .044 .049 .049 .079 .063 .063 .079 .079 .079 .079 .079 .079 .079 .079
coating, rnish,		17°2 11'5 7'11	267°0 597°0/I 177°0	0.024 [Inch [10ch [10ch [10ch [10ch [10ch]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
film (nic val	-	9.01 0.01 0.5.6	<u>217.0/1</u> <u>762.0</u> 722.0/1	0.023 inch (0.584 mm) (0.6.0
to heavy ure orga	-	00°6 05°8 00°8	0.354 1/0.335 0.315 1/0.295	inch m) 0.922 inch (0.559 m)
due t uperatu	-	05.7 01.7 05.30 05.30	082°0/1 092°0 792°0/1 872°0	0,021 inch (0.533 mm) (0.532 000)
inches (mm), due to heavy film coatin and high temperature organic varnish, angular wire	width	00.9 05.30	1/0.236 1/0.220	0.020 inch (0.508 mm)
ss, inches (ing and high rectangular	Nominal w	00°5 52°7 05°7	701.0 781.0/1 771.0	
thíckness, r covering rec	Non	52°7 00°7 57'5 55°5	<u>291.0/1</u> <u>721.0</u> 841.0/1 041.0	0.019 inch (0.483 mm)
in fibe		3.35 2.00 3.00	<u>1/0.132</u> 0.124	0.018 inch
ncrease glass		5°80 5°92 5°20	011.0 701.0/1 860.0	
Maximum increase double glass		5.37 2.12 2.12	£60.0/1 880.0 £80.0/1	0.017 inch (0.432 mm)
Мах	thickness	ន 2.00	و۲٥.0 ق	
		Millimeters	Inches	
	Nominal	LiM		$\begin{array}{c} 0.63\\ \hline .71\\ .71\\ .71\\ .80\\ .90\\ .90\\ 1.6$

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1/ R-40 series intermediate number.

EXAMPLE - Preferred size 0.055 x 0.110 (R-20 x R-20) Intermediate size 0.055 x 0.118 (R-20 x R-40)

NOTES:

- 1. The maximum increase due to the glass fiber covering may be exceeded provided the overall dimension of the covered wire does not exceed the sum of the maximum thickness of the bare wire plus the maximum increase given in table 1.
- The increase in thickness due to the heavy film coating shall be for film coated wire.
- 3. The minimum increase due to the glass fiber covering shall be not less than 70 percent of the maximum shown in table IV, rounded to the nearest 0.001 inch (0.025 mm).
- 4. The increase in width due to the glass fiber covering shall be equal to or less than the maximum increase in thickness given in table IV. Note 1 applies to the increase in width as well as the increase in thickness.
- 5. Because it is impossible to accurately separate the glass fiber covering from the film coating, the total minimum increase in the thickness of a film coated glass fiber covered rectangular wire shall be the sum of the maximum increase due to the film coating (as shown for film coated wire) and the minimum increase due to the glass fiber covering. The total minimum increase shall be not less than 70 percent of the maximum increase given in table IV, plus the minimum for the film coated wire, rounded to the nearest 0.001 inch (0.025 mm).
- 6. For direct conversion of inches to millimeters, multiply inches by the factor 25.4 (exact).

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square wire.	
Dimensions,	
VI.	
TABLE	

single glass fiber covering, heavy film coating and high temperature organic varnish, Minimum increase and maximum overall dimensions, inches (mm), due to square wire

Square AWG size			0		2	m	4	Ś	9	7	8	6	10	11	12	13	14			
	owers11	Maximum overall dimension,	mm	8.738	7.798	6.985	6.274	5.613	5.029	4.521	4.039	3.632	3.277	2.946	2.642	2.388	2.159	1.956		
tion	Movimum		inch	0.344	. 307	.275	.247	.221	.198	.178	.159	.143	.129	.116	.104	.094	.085	.077		
Insulation	o so so so so	Minimum increase in dimension,		0.279	.254	.254	.254	.254	.229	.229	.229	.229	.229	.229	. 203	.203	. 203	.203		
	Minimin	in dimension,	inch	0.011	.010	.010	.010	.010	•00 •	600 .	600 .	6 00 .	•000	6 00 .	.008	.008	.008	• 008		
	 	ii,	E	1.02	1.02	1.02	1.02	1.02	1.02	0.81	.81	.81	.66	.66	.51	.51	.41	.41		
	Nominal radii,		inch	0.040	.040	.040	.040	.040	.040	.032	.032	.032	.026	.026	.020	.020	.016	.016		
		unu	E	8.329	7.422	6.609	5.885	5.240	4.666	4.155	3.701	3.297	2.934	2.614	2.329	2.078	1.854	1.654		
	Maximum	Inch	0.3279	.2922	.2602	.2317	.2063	.1337	.1636	.1457	.1298	.1155	.1029	.0917	.0818	.0730	.0651			
	nension	lal	nn	8.252	7.348	6.543	5.827	5.189	4.620	4.115	3.665	3.264	2.906	2.588	2.304	2.052	1.829	1.628		
	Bare wire dimensio	Nominal	i nch	0.3249	.2893	.2576	.2294	.2043	.1819	.1620	.1443	.1285	.1144	.1019	.0907	.0808	.0720	.0641		
	Bare Minimum		шш	8.176	7.275	6.477	5.768	5.138	4.575	4.074	3.630	3.231	2.878	2.563	2.278	2.027	1.803	1.603		
					Miniı	inch	0.3219	.2864	.2550	.2271	.2023	.1801	.1604	.1429	.1272	.1133	.1009	.0897	.0798	.0710
	Square AWG size		0		5	ę	4	5	<u>ب</u>	7	8	6	10	11	12	13	14			

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NOTES:

Radii tolerance is plus or minus 25 percent.

For direct conversion of inches to millimeters, multiply inches by the factor 25.4 (exact). 1.

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Type G20 and L2G20

Minimum increase and maximum overall dimensions, inches (mm), due to double glass fiber covering and high temperature organic varnish, square wire

Bare wire dimen Bare wire dimen inch Nominal inch mm inch inch mm inch mm inch mm inch mm inch mm inch mm 0.3219 8.176 0.3249 8.252 0 0.3219 8.176 0.3249 8.252 0 10.3219 8.176 0.3249 8.252 0 2264 7.275 2293 7.348 2 22576 6.477 2576 6.543 2 8 22271 5.768 .2294 5.827 2 8 22023 5.138 .2043 5.189 4.620 1801 4.575 .1819 4.620 4.115 1604 4.074 .1620 4.115 1.1620 4.115 1604 4.074 .1620 4.123 3.665 1.144 2.906 1133 2.878 .1144 2.906 1.127 3.041 2.057 0.073 <			<u>9</u>	bare double-glass-covered wire	bare lass-co	e overed	wire	Heavy-film-coated double-glass-covered	y-tilm- glass-(Heavy-film-coated ble-glass-covered	d wire
Minimum Nominal fnch mm inch mm 1nch mm inch mm 0.3219 8.176 0.3249 8.252 0 2864 7.275 22893 7.348 22550 6.477 .2576 6.543 .2550 6.477 .2576 6.543 .22571 5.768 .2294 5.827 .22271 5.768 .2294 5.827 .22271 5.138 .2043 5.189 .22023 5.138 .2043 5.189 .2023 5.138 .2043 5.189 .1801 4.575 .1819 4.620 .1801 4.575 .1819 4.652 .1801 4.575 .1819 4.653 .1423 3.665 .1443 3.665 .1423 3.2878 .1144 2.906 .1133 2.878 .1019 2.588 .0897 2.278 .0907 2.304 .0798 2.027 .0808 2.052 <td>dimension</td> <td>:</td> <td>L</td> <td>Minimum</td> <td></td> <td>Maximum</td> <td>8</td> <td>Minimum</td> <td></td> <td>Maximum</td> <td>E</td>	dimension	:	L	Minimum		Maximum	8	Minimum		Maximum	E
einchmminchmm0.32198.1760.32498.25200.32198.175.28937.348.28647.275.28937.348.25506.477.25766.543.22715.768.22945.827.22715.768.22945.827.20235.138.20435.189.20235.138.20435.189.18014.575.18194.620.16044.074.16204.115.16044.074.16204.115.16093.630.14433.665.11332.878.11442.906.10092.563.10192.588.08972.278.09072.304.07982.027.08082.052	Maximum	Nominal radii,		increase i dimension,	c	overall dimension,	l on,	increase dimension	in,	overall dímension,	ll íon,
0.3219 8.176 0.3249 8.252 0 .2864 7.275 .2893 7.348 .2550 6.477 .2576 6.543 .2571 5.768 .2294 5.827 .2271 5.768 .2294 5.827 .2271 5.768 .2294 5.827 .2023 5.138 .2043 5.189 .1801 4.575 .1819 4.620 .1801 4.575 .1819 4.620 .1604 4.074 .1620 4.115 .1604 4.074 .1620 4.115 .1443 3.655 .1443 3.665 .1272 3.231 .1285 3.264 .1133 2.878 .1144 2.906 .1009 2.563 .1019 2.588 .0897 2.278 .0907 2.304 .0798 2.027 .0808 2.052	m inch mm	inch	Ē	inch	um 1	inch i		inch	E E	inch	uu
.2864 7.275 .2893 7.348 .2550 6.477 .2576 6.543 .2571 5.768 .2594 5.827 .2271 5.768 .2294 5.827 .2271 5.768 .2943 5.189 .2023 5.138 .2043 5.189 .1801 4.575 .1819 4.620 .1604 4.074 .1620 4.115 .1604 4.074 .1620 4.115 .1429 3.630 .1443 3.665 .1272 3.231 .1285 3.264 .1133 2.878 .1144 2.906 .1009 2.563 .1019 2.588 .0897 2.278 .0907 2.304 .0798 2.027 .0808 2.052		0.040	1.02	0.013 0	0.330 0	0.340 8.	. 788	0.010	0.406	0.351	8.915
.2550 6.477 .2576 6.543 .2271 5.768 .2294 5.827 .2023 5.138 .2043 5.189 .1801 4.575 .1819 4.620 .1604 4.074 .1620 4.115 .1443 3.630 .1443 3.665 .1272 3.231 .1285 3.264 .1133 2.878 .1144 2.906 .1133 2.878 .1144 2.906 .1009 2.563 .1019 2.588 .0897 2.278 .0907 2.304 .0798 2.027 .0808 2.052	• 29	.040	1.02	.012	.305	.309 7	7.849	.015	.381	.314	7.976
.2271 5.768 .2294 5.827 .2023 5.138 .2043 5.189 .1801 4.575 .1819 4.620 .1604 4.074 .1620 4.115 .1604 4.074 .1620 4.115 .1429 3.630 .1443 3.665 .1272 3.231 .1285 3.264 .1133 2.878 .1144 2.906 .1009 2.563 .1019 2.588 .0897 2.278 .0907 2.304 .0798 2.027 .0808 2.052	<u> </u>	.040	1.02	.012	. 305	.277 7.	.036	.015	.381	.282	7.163
.2023 5.138 .2043 5.189 .1801 4.575 .1819 4.620 .1604 4.074 .1620 4.115 .1429 3.630 .1443 3.665 .1272 3.231 .1285 3.264 .1133 2.878 .1144 2.906 .1009 2.563 .1019 2.588 .0897 2.2778 .0907 2.304 .0798 2.027 .0808 2.052	.2317	.040	1.02	.011	.279	.248 6.	. 299	.014	.350	. 253	6.426
. 1801 4.575 . 1819 4.620 .1604 4.074 .1620 4.115 .1443 3.650 14415 .1272 3.231 .1285 3.264 .1133 2.878 .1144 2.906 .1009 2.563 .1019 2.588 .0897 2.278 .0907 2.304 .0798 2.027 .0808 2.052	.20	40 .040]	1.02	.011	.279	.222 5	5.639	.014	.350	.227	5.760
.1604 4.074 .1620 4.115 .1429 3.630 .1443 3.665 .1272 3.231 .1285 3.264 .1133 2.878 .1144 2.906 .1009 2.563 .1019 2.588 .0897 2.278 .0907 2.304 .0798 2.027 .0808 2.052	•18	.040	1.02	.011	.279	. 190 5	5.055	.014	.350	. 204	5.182
.1429 3.630 .1443 3.665 .1272 3.231 .1285 3.264 .1133 2.878 .1144 2.906 .1009 2.563 .1019 2.588 .0897 2.278 .0907 2.304 .0798 2.027 .0808 2.052	.1636 4.	.032	0.81	.011	.279	.179 4.	.547	.014	.350	.184	4.674
.1272 3.231 .1285 3.264 .1133 2.878 .1144 2.906 .1009 2.563 .1019 2.588 .0897 2.278 .0907 2.304 .0798 2.027 .0808 2.052	665 .1457 3.701		.81	.010	.254	.160 4.	.064	.013	.330	.165	4.191
.1133 2.878 .1144 2.906 .1009 2.563 .1019 2.588 .0897 2.278 .0907 2.304 .0798 2.027 .0808 2.052	.12	97 .032	.81	.010	.254	.144 3.	.658	.013	.330	.149	3.785
.1009 2.563 .1019 2.588 .0897 2.278 .0907 2.304 .0798 2.027 .0808 2.052	.1155 2.	934 .026	.66	•00 •	.299	.129 3.	.277	.012	.305	.134	3.404
.0897 2.278 .0907 2.304 .0798 2.027 .0808 2.052	.1029		.66	•000	.229	.116 2.	.946	.012	. 305	.121	3.073
.0798 2.027 .0808 2.052	•0•	29 .020	.51	• 008	.203	.104 2	2.642	.011	.279	.109	2.709
	052 .0818 2.078	78 .020	.51	.008	.203	.094 2.	• 388	.011	.279	.099	2.515
3 0710 1.803 0720 1.829	829 .0730 1.854	54 .016	.41	•008	.203	.085 2.	.159	.011	.279	060.	2.280
14 .0631 1.603 .0641 1.628	.0651 1.	654 .016	.41	• 008	. 203	.077 1	.956	.011	.279	.082	2.083

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NOTES:

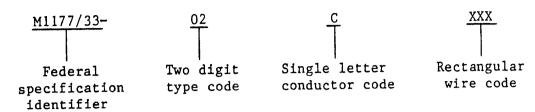
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Part number: Magnet wire covered by this specification shall be defined by the following part numbering system. Example: M1177/33-02CXXX.



The following codes shall apply:

Туре	Type code	Conductor	Conductor code
G20 L2G0 L2G20	01 02 03	Copper Aluminum Nickel-coated copper	C A N
		Silver-coated copper	S

Intended use:

Type GO rectangular magnet wire is intended for use in 180°C applications similar to those for which type GO round magnet wire is used.

MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITIES:

Custodians:	GSA - FSS, PBO, PCD
Army - CR	INTERIOR - BLM
Navy - SH	HHS - FDA
Air Force - 85	DCGOVT - DCG
Review activities:	NASA - JFK
Army - AR, ER, MI	COMMERCE - NBS
DLA - IS	TRANSPORTATION - APM, FAA
User activities:	Preparing activity:
Army — ME	Navy - SH
Navy — AS, CG, MC, OS	(Project 6145-1111-29)

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