

BRAIDLESS SILICONE RUBBER HIGH TEMPERATURE LEAD WIRE 200°C 1000V Mil-W-16878/8

200°C 1000 Volts 19-2733543-75

Tinned Copper Conductor

Part Number	AWG	Stranding	Silicone Rubber Mil-Wall	Nominal O.D. (In)	Approx. Weight (Lbs/Mft)	Color
MBA12T259-MR01-E4000	12	259/36 TC	0.046"	0.197"	32.38	Green

All Dimensions are Nominal



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APPLIC	ATION	REVISIONS			
NEXT ASSY	USED ON	REV	DESCRIPTION	DATE	APPROVED
	MSE	Н	Revised per CN 429-4367, Code C	02/04/24	P. Peterson
			Chg: S. Brown Chk: M. Fortin		
		J	CN00000905, CODE C	10/01/08	R.JOHNSTON
			CHG:R.JOHNSTON CHK:T.CARNEY		

SPECIFICATION CONTROL DRAWING

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	CONTRACT NO.		GEI	ΝE	RAL	DYNAMICS		
ALL SHEETS OF	DAAB07-86-C-K022		C4 Sy Tauntor		ns . 02780-1	069		
THIS DRAWING	DWN R. Hudson 11 Aug	DATE						
MAINTAINED AT	снк J.P. C.B. G.I. 8/12/86	DATE		١	NIRE, E	ELECTRICAL, HOOK-UP	,	
SAME REVISION	APVD P. Wallace 8/12/86	DATE	EXTRA FLEXIBLE, 1000 VOLT					
	APVD R. Roth 86-8-13	DATE	SIZE A		cage 7032	DWG NO. 19-2733543		REV J
	J. Burke 21 Aug. 86	DATE	scale NON	E	SOURCE	MS WORD 7.0	SHEET 1 OI	F 6

NOTES

- 1. Item: Wire, electrical, hook-up, extra flexible, 1000 volts
- 2. Description: The wire shall meet the requirements of MIL-W-16878/8 with the additions and exceptions specified herein.
- Construction and Material
- 3.1 Conductor: The conductor shall be robe stranded with strands of either tin or silver plated, soft annealed copper wire per QQ-W-343.
- 3.1.1 Plating Thickness: 40 microinches minimum
- 3.1.2 Number/Size of Strands: Table I
- 3.1.3 Stranding Construction: Table I
- 3.1.4 Strand Diameter: Table I
- 3.1.5 Member Outside Diameter: Table I
- 3.1.6 Length of Lay: Table I
- 3.1.7 Overall Diameter: Table I
- 3.1.8 Conductor Size: Table I
- 3.1.9 Barrier Tape: The conductor (10 AWG 0 AWG) may be optionally wrapped lengthwise with .005 inch thick silicone coated fiber-glass tape directly over the conductor as a barrier tape. Extruded silicone rubber over barrier tape to prevent silicone from being imbedded into conductor stranding.
- 3.2 Insulation: Extruded silicone rubber
- 3.2.1 Color: Table II
- 3.2.2 Concentricity: At any cross section along the length of the completed wire, the minimum thickness of the insulation shall be not less than 41 percent of the difference between the measured diameter over the insulation and the measured diameter over the conductor, or not less than 70 percent of the maximum thickness at that cross section.
- 4. Maximum Operating Temperature: ±200°C

GENERAL DYNAMICS	SIZE	DWG NO.	REV	CAGE	SHEET
_C4 Systems	Α	19-2733543	J	67032	2

- 5. Marking: The shipping containers and/or reels shall be legibly marked with the following information:
 - a) Manufacturer's Identification
 - b) Procuring Activity Part Number (See 7.1)
 - c) Procuring Activity CAGE Number (67032)
 - d) Wire Size

This marking requirement replaces the marking requirements of MIL-DTL-16878.

- Quality Assurance Provisions: Quality assurance provisions shall be in accordance with MIL-W-16878 as applicable to the requirements specified herein. Generic test data will be acceptable in lieu of actual test data for heat resistance, cold bend, soldering and surface resistance tests of MIL-W-16878/8.
- Insulation Strippability shall be tested for conformance to the values given in Table A per FED-STD-228, method 2231 or equivalent:

TABLE A

Wire Gage	Insulation Strippability Value (minimum)
0-10	12 lbs.

- Suggested Source(s) of Supply
 - a) BICC General Willimantic, CT 06226

CAGE No.: 71124

b) D&B Industrial Group/Rowe Industries
 24 Cedar Creek Avenue
 Georgetown, DE 19947

CAGE No.: None

c) Radix Wire Co. Euclid, OH 44132

CAGE No.: 86696

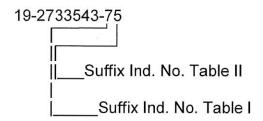
GENERAL	DYNAMICS
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7.1 Procuring Activity Part Number: The procuring activity part number consists of this drawing number (19-2733543) plus a two digit suffix. The first digit in the suffix is taken from Table I to indicate the conductor size. The second digit is taken from Table II to indicate the insulation color.

Example: The procuring activity part number for wire with a size 12 AWG conductor and green insulation is:



8. Identification of the Suggested Source(s) of Supply hereon is not to be construed as a guarantee of present or continued availability as a source of supply for the item.

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TABLE I

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Insulation Diameter	lation neter OD over Insulation	OD over Insulation	.525/.650	.465/.530	.403/.434	.323/.354	.280/.306	.219/.231	.191/.201	.173/.185	.126/.134
lns Dia	Wall	in. **(min)	.0595	.0595	.0565	.0595	.057	.0445	.0445	.0445	.0295
Overall	Diameter Nominal	Inch (Conductor)	.500	.379	.300	.210	.167	.132	.104	.084	.067
	Length of Lay	Max. Inches	8.25	6.25	4.30	3.26	2.65	2.08	1.63	1.38	1.07
	Member OD	(Nom) Inch	950.	.044	.030	.068	.055	.043	.034	.028	.022
Strand	Diameter Inch	+.0003	300.	.005	.005	.005	.005	.005	.005	.005	.005
	*	Construction	7x7x95/36	7x7x54/36	7x7x34/36	19x55/36*	19x35/36*	7x59/36	7x37/36	7x24/36	7x15/36
	Number	of Strands	4655/36	2646/36	1666/36	1050/36	98/399	413/36	259/36	168/36	105/36
	Wire	Size AWG	0	2	4	9	80	10	12	4	16
	P/N	Suffix Indicator	7	-2	-3	4	-5	9-	2-	φ	6-

WIRE SIZE *OPTIONAL STRAND CONSTRUCTION

6 AWG 8 AWG

7x150/36 7x95/36

** Optional Barrier Tape Will Reduce Wall By Approx. .0075"

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SHEET

cage 67032

REV J

TABLE II

P/N Suffix Indicator	Insulation Color
0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Gray
9	White

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