

# APPLIANCE, UL FIXTURE & MOTOR LEAD WIRE

MG APPLIANCE WIRE 450°C (UL)/538°C (NON-UL), 600 VOLT

## Construction

### Conductor:

- 27% Nickel coated copper per ASTM B355; stranding per ASTM B8 (Class B), ASTM B173 (Class H) or ASTM B174 (Class K).

### Insulation:

- Glass reinforced mica tapes.

### Overall Jacket:

- White or tan braided glass yarn impregnated with flame, heat and moisture resistant finish.

### Glass Reinforced Mica Tape Insulation Provides:

- Excellent dielectric properties.
- Superior high temperature resistance.

### Overall Glass Braid Jacket Provides:

- Moisture resistance.
- Flame resistance.
- Mechanical protection.

### Applications:

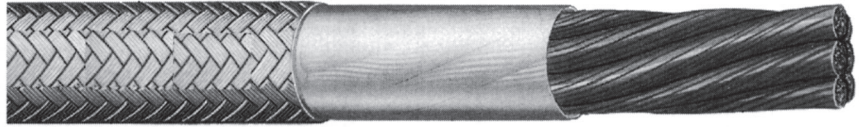
- MG Appliance Wire is designed for use in wiring ovens or other high temperature equipment where temperature requirements do not exceed 450°C or 538°C.
- MG Appliance Wire is ideally suited for applications where extremely high temperatures are present, such as in the following industries:
  - (a) Iron and Steel;
  - (b) Glass;
  - (c) OEM.

### MG Appliance Wire:

- Is a very rugged construction.
- Is moisture and chemical resistant.
- Contains no asbestos.
- Is constructed of primarily non-combustible inorganic materials.
- Emits minimal smoke when burned.
- Possesses a superior ability to maintain circuit integrity under flames (singles have maintained circuit integrity for 30 hours in a conduit under flame conditions).
- Is flexible and easy to install.
- Nickel coated copper conductor maintains flexibility and conductivity at elevated temperatures.
- Class K & H stranded conductors provide additional flexibility.

### Industry Approvals:

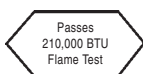
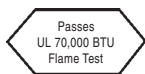
- MG Appliance Wire Listings: (UL) Style 5107 600 Volt Appliance Wire and CSA Class I Group A - 450°C.
- Passes the 70,000 BTU/hr and the 210,000 BTU/hr industry standard Vertical Cable Tray Flame Tests with circuit integrity for a minimum 2.5 hours.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOM. INSUL. THICKNESS	BRAID THICKNESS	NOMINAL O.D.	CURRENT	NOMINAL WEIGHT
	AWG/MCM		INCHES	INCHES	INCHES	AMPS*	LBS/MFT
9830	18	16	0.025	0.007	0.110	31	12
9831	16	26	0.025	0.007	0.120	40	16
9832	14	41	0.025	0.007	0.135	55	22
9835	12	65	0.025	0.007	0.154	75	31
9836	10	105	0.030	0.017	0.208	100	52
9840	8	133	0.030	0.017	0.250	130	78
9841	6	133	0.030	0.017	0.290	175	115
9842	4	133	0.030	0.017	0.350	235	175
9843	2	133	0.035	0.020	0.445	315	260
9844	1	259	0.035	0.020	0.490	420	320
9845	1/0	259	0.035	0.020	0.515	490	400
9846	2/0	259	0.035	0.020	0.570	580	505
9847	3/0	259	0.035	0.020	0.630	675	620
9848	4/0	259	0.035	0.020	0.700	785	760
9849	500 MCM	427	0.040	0.020	1.075	1400	1770

\* Ampacity based on single conductor in free air, 30°C ambient.

NOTE: MG is CSA, AWM, Class 1, Group A/B.



# Custom Cable Corp.