

PLAINTIFF'S
EXHIBIT

B-178



ROCKBESTOS

Appliance and Range Wires

ROCKBESTOS PRODUCTS
CORPORATION

NEW HAVEN
CONNECTICUT

RBB 00535

INDEX

BY ROCKBESTOS TABLE LETTER

300 VOLT All-Asbestos RANGE and APPLIANCE LEAD WIRES

MOISTEMP 125°C (257°F)

Moisture, Heat and Flame
Resisting Compound

COPPER	MONEL	NICKEL
A	AM	AN
R	RM	RN
WBC	WBM	WBN
WBCF	WBMF	WBNF
WBCS	WBMS	WBNS
WCC	WCM	WCN
WCCF	WCMF	WCNF
WCCS	WCMS	WCNS
WDC	WDM	WDN
WDCF	WDMF	WDNF
WDCS	WDMS	WDNS
WEC	WEM	WEN
WECF	WEMF	WENF
WECs	WEMS	WENS
WSC	—	—
WSCF	—	—
WFC	WFM	WFN
WFCF	WFMF	WFNF
WFCs	WFMS	WFNS
WGC	WGM	WGN
WGCF	WGMF	WGNF
WGCS	WGMS	WGNS

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Stove Wire (Stranded)—Underwriters' Approved
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30 Mil Appliance Wire (Flexible Stranded)
30 Mil Appliance Wire (Coarse Stranded)
40 Mil Appliance Wire (Solid)
40 Mil Appliance Wire (Flexible Stranded)
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HI-TEMP 200°C (392°F)

Heat and Flame
Resisting Compound

COPPER	MONEL	NICKEL
A-300	AM-300	AN-300
R-300	RM-300	RN-300
XBC	XBM	XBN
XBCF	XBMF	XBNF
XBCS	XBMS	XBNS
XCC	XCM	XCN
XCCF	XCMF	XCNF
XCCS	XCMS	XCNS
XDC	XDM	XDN
XDCF	XDMF	XDNF
XDCS	XDMS	XDNS
XEC	XEM	XEN
XECF	XEMF	XENF
XECs	XEMS	XENS
XSC	—	—
XSCF	—	—
XFC	XFM	XFN
XFCF	XFMF	XFNF
XFCs	XFMS	XFNS
XGC	XGM	XGN
XGCF	XGMF	XGNF
XGCS	XGMS	XGNS

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1000 VOLT APPLIANCE LEAD WIRE (Underwriters' Approved)

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All Data Subject to change without notice.

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THE QUESTION
OF
UNDERWRITERS' APPROVED
APPLIANCE AND LEAD WIRES

Underwriters' Laboratories are primarily concerned with the fire and accident features of equipment, materials, devices and appliances. Their approvals and listings are given after exhaustive tests have been run by them on completed appliances or assemblies, judged solely on their safe performance as a unit.

Underwriters' have not at the present time established standards for asbestos insulated wires to be used as internal wiring of appliances and devices. While they have made provisions to accept and test for approval some special insulated electrical conductors for specific appliance applications (for example the wires listed on pages 14, 15, and 16 in this Catalog) their approval of asbestos insulated lead wire is based on its application to a completed appliance or assembly which they will approve as a unit. Rockbestos has for more than thirty-five years manufactured asbestos insulated lead and appliance wires for all types of electrical appliances and devices. Underwriters' Laboratories through the years have approved many manufacturers' electrical appliances wired with the Rockbestos standard constructions listed in this catalog.

Since the Underwriters' Laboratories Approval of an appliance is granted on the complete appliance and not on the component parts individually, it must be clearly understood that because there are no Underwriters' Standards for these types of wires, they cannot be Underwriters' Labeled. The recommendations for appliance wires that we make in this catalog are based on our long time experience that these constructions properly applied will successfully meet the requirements of the Underwriters' Laboratories. These wires may also be used to conform to the standards for wiring required by the A.G.A. for gas range electrical circuits.

Our Research and Design Engineers keep constantly abreast with special product applications as well as the many new unusually high temperature insulation materials which can be of help to you. We offer you our research facilities for the development of special wires designed to meet any unusual requirements you may have.

RANGE AND APPLIANCE LEAD WIRES

Important Information — Read Before Specifying

Before reviewing the Standard Specifications for Rockbestos Electric or Gas Range and Appliance Lead Wires a working knowledge of the types of impregnation used in the felted asbestos and/or braid is essential. There are two basic types — "Hi-Temp" which is heat and flame resisting, and "Moistemp" which is heat, flame, and moisture resisting. You should also know something of the type of application in which they should be used.

"Hi-Temp"® Impregnation — Scope and Limits

"Hi-Temp" impregnation is designed for applications in which the temperature is usually high and there is little or no moisture. A waffle iron suggests itself as a typical example as temperatures in them frequently range around 600°F. Under such heat, and also because of high wattage and close confinement, moisture accumulated during the "off" period is dissipated before a leakage path or a short can develop. This condition is duplicated in many electrical products, but care must be exercised in determining whether the temperature rise is sufficiently rapid to dry out the insulation, as a slowly rising temperature will permit leakage to build up to a point where a short may occur.

"Moistemp"® Impregnation — Scope and Limits

"Moistemp" impregnation is designed for applications in which the temperature is high but not extreme, and where humidity and moisture may cause current leakage. This is particularly true of some appliances and devices in which the insulation on the ends of the wires attached to heating units is exposed to high temperatures, while the insulation on the wires between the terminals may be in a moist, low temperature area. In such applications "Moistemp" impregnation should be specified as it is not only heat and flame resistant but moisture resisting as well.

High-Dielectric and Asbestos Insulation

This type of insulation, employed in the .033" and .043" Hi-Dielectric Range and Appliance Lead wires shown on pages 12 and 13, is designed to meet conditions similar to those detailed in the paragraph above but more exaggerated, as in heavy duty appliances such as electric ranges, gas ranges and water heaters. The combination of tape and felted asbestos provides high resistance to both heat and moisture, and the asbestos may be impregnated with either "Hi-Temp" or "Moistemp" compound as required.

ROCKBESTOS PRODUCTS CORPORATION

STANDARD SPECIFICATION FOR ROCKBESTOS
RANGE AND APPLIANCE LEAD WIRES

Many companies in adopting Rockbestos Range and Appliance Lead Wires have requested suggestions for a standard specification. For this purpose we present the following outline which embraces all types of wire shown in this catalog.

I GENERAL

- (a) *Purpose:* The purpose of this specification is to insure the furnishing of wire of the proper quality, manufactured in accordance with accepted practice.
- (b) *Scope:* This specification covers the construction and test requirements for range and appliance lead wires.
- (c) *Materials and Workmanship:* All materials and workmanship employed in manufacturing wires to this specification shall be of high quality so as to provide a finished product best suited for the purpose intended.

(d) *Applications*

All-Asbestos Insulations.

These wires are suitable for operation at a maximum of 300 volts as open wiring in high temperature applications where little or no moisture is encountered.

Asbestos High-Dielectric Insulations.

These wires are suitable for operation at a maximum of 300 volts in electric ranges, gas ranges, hot water heaters or other appliances where they must operate under both heat and casual moisture conditions. The high dielectric tape insert provides ample protection against casual moisture encountered within the appliance.

II CONDUCTORS

- (a) *Solid:* Solid conductors shall be plain or coated copper in accordance with current ASA or ASTM specification. Other metals such as monel, nickel or copper clad soft steel per current NEMA Standard.
- (b) *Stranded:* Stranded conductors shall be bunched or concentric as required. The make-up of stranded conductors shall conform to current ASTM specifications. The individual strands shall be as specified for solid conductors in II (a).

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STANDARD SPECIFICATION — Continued

III INSULATION

(a) *Asbestos*

1. *Material:* The asbestos insulation shall consist of selected quality, long fibre, chrysotile asbestos commercially free from foreign particles of dirt, cotton seed and metallic oxides. It shall be well carded to prevent lumps and irregularities in the finished wire.

The asbestos insulation shall be applied to form a smooth felted wall of uniform thickness as specified in the tables.

The asbestos insulation after extraction of the impregnating compound shall contain not less than 80% by weight of asbestos. The total iron content shall not exceed 4% by weight of the asbestos.

2. *Impregnation:* The asbestos insulation shall be dried and saturated with a flame and heat resisting compound or a flame, heat and moisture resisting compound as specified. The compound shall consist of suitable high grade ingredients and shall retain its initial qualities during the normal life of the wire. The compound shall not develop any injurious chemical action within itself or with any component parts of the wire.

- (b) *High Dielectric Tape:* The tape, when used, shall consist of a high grade material substantially free from blisters or other imperfections and shall be applied to form a smooth wall of uniform thickness.

IV SEPARATORS

Unless otherwise specified, suitable separators may be used.

V BRAIDS

(a) *Asbestos*

1. *Material:* The asbestos yarn shall be of selected quality, long-fibre, chrysotile asbestos containing not less than 80% by weight of asbestos. The total iron content shall not exceed 6% by weight of the asbestos.
2. *Application:* Asbestos braids shall be applied to conform to current NEMA standards.
3. *Finish:* Asbestos braid shall be finished with a suitable flame and heat resisting compound or saturated and finished with a flame, heat and moisture resisting compound as specified.

ROCKBESTOS PRODUCTS CORPORATION

STANDARD SPECIFICATION — Continued

VI TESTS

A. *Physical*

1. *Dimensions*: Inspection for dimensional requirements shall consist of four determinations, two to be made near each end of the sample of which the average shall comply with the requirements given in the tables. The measurements shall be made with a ratchet micrometer having 1/4 inch diameter faces. Each determination shall be the average of two measurements made at right angles to each other.
2. *Resistance to Flame*: All wire made to this specification shall have fire resisting properties so that the test specimens will meet all of the requirements of the Underwriters' Laboratories standard vertical flame test.

B. *Electrical*1. *Initial Dielectric Strength*:

Initial dielectric strength tests shall be made on 5-foot lengths of finished wire with the center 3-foot section wrapped in metal foil.

Voltages as indicated below shall be applied for 1 minute.

- (1) All-Asbestos, flame and heat resistant, plain or braided — 1000 volts.
- (2) All-Asbestos, flame, heat and moisture resistant

{	plain — 1000 volts.
{	braided — 1500 volts.
- (3) Asbestos-High Dielectric — 2500 volts.

2. *Dielectric Strength after Flame*:

A sample of wire having been previously subjected to the flame test shall be prepared with the charred area of sizes No. 6 and larger wrapped in metal foil, and sizes smaller than No. 6 buried in iron filings or fine shot. The sample shall then withstand the application of 1000 volts for 1 minute when applied between conductor and ground.

3. *Bend-Dielectric Strength*:

A sample of wire shall be wound 5 turns around a mandrel having a diameter 5 times that of the sample. The ends of the spiral shall be held tightly by a mechanical anchorage. Metal foil shall be tightly wrapped over the entire length of the spiral. The sample shall then withstand 1500 volts for 1 minute when applied between conductor and metal rod and foil.

4. *Dielectric Strength While Immersed (Flame, heat and moisture resistant type only)*:

A 2-foot sample of finished wire shall have the center 1-foot section immersed for 1 hour in tap water at room temperature. While still immersed the sample shall withstand 1000 volts for 1 minute when applied between conductor and water.

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STANDARD SPECIFICATION — Continued

5. *Dielectric After Heating in Oven:*

A sample of wire shall be wound 5 turns around a mandrel having a diameter 5 times that of the sample. The ends of the spiral shall be held tightly by a mechanical anchorage. The sample thus wound shall be placed in an oven at a temperature of 450°F. ($\pm 20^\circ\text{F.}$) until the wire ceases to smoke but for not less than 1 hour. The sample shall be removed from the oven and metal foil shall be tightly wrapped over the entire length of the spiral. The sample shall then withstand 1000 volts for 1 minute when applied between conductor and metal rod and foil.

6. *Heat and Water Test (Asbestos-High Dielectric type only):*

A 6-foot sample of wire shall be given a dielectric test by winding the center 5 feet on a brass mandrel having a diameter five times the diameter of the insulated wire or $1/2$ inch, whichever is greater. Place the sample on the mandrel into an oven heated at $177^\circ\text{C.} = 2^\circ\text{C.}$ ($350^\circ\text{F.} = 4^\circ\text{F.}$) for a continuous period of 5 hours. After the duration of the heating period, remove the sample and allow it to return to room temperature. With the exception of the 6" section at each end, soak the sample, for a period of 5 hours, in a brine solution consisting of 0.1 grams of sodium chloride per liter of tap water. Immediately after removal from the brine solution, the sample shall withstand 1200 volts, 60 cycles, applied for 1 minute between the conductor and the mandrel.

7. *Dielectric Strength (Grounding Wire Only)*

A 6-foot sample of wire shall be given a dielectric test by winding the center five feet on a brass mandrel having a diameter five times the diameter of the insulated wire. Place the sample on the mandrel into an oven heated at $177^\circ\text{C.} = 2^\circ\text{C.}$ ($350^\circ\text{F.} = 4^\circ\text{F.}$) for a continuous period of 5 hours. After the duration of the heating period, the sample shall be removed and shall be subjected immediately to and shall withstand 500 volts, 60 cycles for 1 minute between the conductor and the mandrel.

VII SAMPLING

- (a) Each of the required tests shall be made on one sample of each size and type of wire from each lot of 10,000 feet or fraction thereof.
- (b) If a sample fails to meet a prescribed test requirement, two additional samples shall be taken from the same length. If the two additional samples meet the test requirement then the lot shall be accepted. If either of these samples fail the length may be rejected.
- (c) If any length is rejected for failure to meet a requirement, then a sample shall be taken from each length of the balance of the lot and subjected to the particular test requirement to determine acceptance or rejection of that length.

CURRENT-CARRYING CAPACITIES FOR ASBESTOS INSULATED COPPER NICKEL AND MONEL CONDUCTORS

USED FOR LEADS TO APPLIANCES AND OTHER EQUIPMENT (BASED ON INSTALLATION EQUIVALENT TO THREE 1-CONDUCTOR WIRES IN CONDUIT).

Condr. Size, A.W.G.	Current-Carrying Capacities, Amperes* — per NEMA Standard					
	ROCKBESTOS "MOISTEMP" INSULATION Heat and Moisture Max. Conductor Temp. 125C			ROCKBESTOS "HI-TEMP" INSULATION Heat — No Moisture Max. Conductor Temp.		
	Copper	Nickel	Monel	200°C. Copper	300°C. Nickel	500°C. Monel
18	17	7.1	4.1	18	8.5	5.2
16	22	9.2	5.4	23	10.9	6.6
14	29	12.1	7.1	32	15.2	9.1
12	38	16.0	9.3	42	20.0	12.0
10	49	20.6	12.0	54	25.6	15.5
8	63	26.4	15.4	71	33.7	20.3
6	85	36.0	20.7	95	45.0	27.2
4	114	48.0	27.9	122	57.9	35.0
3	131	55.0	32.0	145	68.8	41.5
2	147	62.0	36.0	163	77.4	46.6
1	172	72.0	42.0	188	88.2	53.7

*Use 80 per cent of these current ratings when 4 to 6 conductors are laid close together, and 70 per cent for 7 to 9 conductors.

CURRENT CORRECTION FACTORS FOR VARIOUS AMBIENT TEMPERATURES

Ambient Temp. C.	Correction Factors		
	Rockbestos "Moistemp"	Rockbestos "Hi-Temp"	
		Copper	Nickel and Monel
30	1.00	***	***
40	0.95	***	***
50	0.89	1.00	1.00
60	0.83	0.97	0.98
70	0.76	0.93	0.96
80	0.69	0.89	0.94
90	0.61	0.86	0.92
100	0.51	0.82	0.90
120	***	0.72	0.85
140	***	0.63	0.80

ALL-ASBESTOS APPLIANCE GROUNDING WIRE (NEMA Standard—1954)

CONSTRUCTION: Stranded copper conductor, felt asbestos insulation, green finish, no braid. The insulation is impregnated with "Hi-Temp" heat and flame resisting compound.

TABLE XI

Size A.W.G.	Stranding	Bare Diameter Inches	Nominal Thickness Felted Wall Mils	*Nominal Finished Diameter Inches	Approx. Net Weight In Lbs. 1000 Feet	Standard Package (Feet)		
						Coils	Non-Returnable	
							Large Metal Spools	Wooden Reels
14	7/.0242	.073	15	.103	16	1000	3000	5000

*Finished diameter given above is average. A tolerance of plus or minus 5% is necessary due to variations in process of manufacture.

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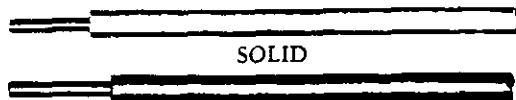
.030" APPLIANCE LEAD WIRES

COPPER, NICKEL OR MONEL
SOLID OR STRANDED CONDUCTORS

300 VOLT ALL-ASBESTOS
.030" APPLIANCE LEAD WIRES

FOR WAFFLE IRONS, HOTPLATES, FLAT IRONS, ROASTERS, GRILLS, TOASTERS,
 COFFEE BREWERS, FOOD WARMERS, FRIERS, CONTROL PANELS, SWITCH-
 BOARDS, WRAPPING SEALERS, COIL, MOTOR AND APPARATUS LEADS.

MAXIMUM OPERATING TEMPERATURES: HI-TEMP—200°C. (392°F.)
 MOISTEMP—125°C. (257°F.)



SOLID



STRANDED

"HI-TEMP" Insulation—Heat and Flame resisting—For use in High Temperatures, little or no moisture.
 "MOISTEMP" Insulation—Heat, Flame and Moisture resisting—Use for Heat and Moisture conditions.
 Conductors—Solid or Stranded Copper, Nickel or Monel—Insulated with .030" of felted asbestos.

Specified standard conductors are insulated with an .030" wall of felted asbestos impregnated with either "Hi-Temp" heat and flame resisting compound or "Moistemp" heat, flame and moisture resisting compound. Standard colors: black, white and red. Gray, green, blue, orange, brown and yellow available on special order. Special conductors such as

tinned copper, copperweld, and alloys other than nickel or monel can be supplied on special order. When ordering be sure to specify color and give table letters indicating type of conductor wanted and preference for either "Hi-Temp" or "Moistemp" impregnation.

Solid Moistemp:
 Solid Hi-Temp:

Table WBC — Copper
 Table XBC — Copper

Table WBM — Monel
 Table XBM — Monel

Table WBN — Nickel
 Table XBN — Nickel

Size A.W.G.	Bare Diameter Inches	Nominal Thickness Felted Wall Inches	*Nominal Finished Diameter Inches	Approx. Net Weight In Lbs. Per 1000 Feet	Standard Package (Feet)		
					Coils	Non-Returnable	
						Large Metal Spools	Wooden Reels
8	.128	.030	.188	60	500	—	5000
10	.102	.030	.162	39	1000	1000	6500
12	.081	.030	.141	27	1000	1500	8500
14	.064	.030	.124	18	1000	2500	10000
16	.051	.030	.111	13	1000	3500	10000
18	.040	.030	.100	10	1000	5000	10000
20	.032	.030	.092	7	1000	5000	10000

Coarse Stranded Moistemp:
 Coarse Stranded Hi-Temp:

Table WBCS — Copper
 Table XBCS — Copper

Table WBMS — Monel
 Table XBMS — Monel

Table WBNS — Nickel
 Table XBNS — Nickel

Size A.W.G.	Stranding	Bare Diameter Inches	Nominal Thickness Felted Wall Inches	*Nominal Finished Diameter Inches	Approx. Net Weight In Lbs. Per 1000 Feet	Standard Package (Feet)		
						Coils	Non-Returnable	
							Large Metal Spools	Wooden Reels
8	7/0486	.146	.030	.206	62	500	—	4000
10	7/0385	.116	.030	.176	42	1000	1000	6000
12	7/0305	.092	.030	.152	28	1000	1500	7500
14	7/0242	.073	.030	.133	19	1000	2500	10000
16	7/0192	.058	.030	.118	14	1000	3500	10000
18	7/0152	.046	.030	.106	9	1000	4500	10000
20	7/0121	.036	.030	.096	8	1000	5000	10000

Flexible Stranded Moistemp:
 Flexible Stranded Hi-Temp:

Table WBCF — Copper
 Table XBCF — Copper

Table WBMF — Monel
 Table XBMF — Monel

Table WBNF — Nickel
 Table XBNF — Nickel

8	165/30	.151	.030	.211	64	500	—	4000
10	104/30	.120	.030	.180	43	1000	1000	6000
12	65/30	.095	.030	.155	29	1000	1500	7500
14	41/30	.075	.030	.135	19	1000	2500	10000
16	26/30	.059	.030	.119	14	1000	4000	10000
18	16/30	.045	.030	.105	10	1000	4500	10000
20	10/30	.038	.030	.098	7	1000	5000	10000

*Finished diameter given above is average. A tolerance of plus or minus 5% is necessary due to variations in process of manufacture.

ROCKBESTOS PRODUCTS CORPORATION

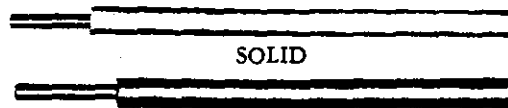
300 VOLT ALL-ASBESTOS .040" APPLIANCE LEAD WIRES

FOR RANGES, WATER HEATERS, PORTABLE RHEOSTATS, BLUEPRINT MACHINES,
LABORATORY OVENS, DRYERS, STERILIZERS, COMMERCIAL COFFEE BREWERS,
BROILERS, TOASTERS AND GRILLS, CAR AND SPACE HEATERS, IRONERS, ETC.

MAXIMUM OPERATING TEMPERATURES: HI-TEMP—200°C. (392°F.)
MOISTEMP—125°C. (257°F.)

.040" APPLIANCE LEAD WIRES

**COPPER, NICKEL OR MONEL
SOLID OR STRANDED CONDUCTORS**



SOLID



STRANDED

"HI-TEMP" Insulation—Heat and Flame resisting—For use in High Temperatures, little or no moisture.
"MOISTEMP" Insulation—Heat, Flame and Moisture resisting—Use for Heat and Moisture conditions.
Conductors—Solid or Stranded Copper, Nickel or Monel—Insulated with .040" of felted asbestos.

Specified standard conductors are insulated with an .040" wall of felted asbestos impregnated with either "Hi-Temp" heat and flame resisting compound or "Moistemp" heat, flame and moisture resisting compound. Standard colors: black, white and red. Gray, green, blue, orange, brown and yellow on special order. Special conductors such as tinned

copper, copperweld, and alloys other than nickel or monel can be supplied on special order. When ordering be sure to give table letters indicating type of conductor wanted, also specify color and preference for either "Hi-Temp" or "Moistemp" impregnation.

Solid Moistemp:	Table WCC — Copper	Table WCM — Monel	Table WCN — Nickel
Solid Hi-Temp:	Table XCC — Copper	Table XCM — Monel	Table XCN — Nickel

Size A.W.G.	Bare Diameter Inches	Nominal Thickness Felted Wall Inches	*Nominal Finished Diameter Inches	Approx. Net Weight In Lbs. Per 1000 Feet	Standard Package (Feet)		
					Coils	Non-Returnable	
						Large Metal Spools	Wooden Reels
8	.128	.040	.208	64	500	—	4000
10	.102	.040	.182	43	1000	1000	5000
12	.081	.040	.161	30	1000	1500	6500
14	.064	.040	.144	21	1000	2500	8500
16	.051	.040	.131	16	1000	2500	10000
18	.040	.040	.120	12	1000	4000	10000
20	.032	.040	.112	9	1000	4000	10000

Coarse Stranded Moistemp:	Table WCCS — Copper	Table WCMS — Monel	Table WCNS — Nickel
Coarse Stranded Hi-Temp:	Table XCCS — Copper	Table XCMS — Monel	Table XCNS — Nickel

Size A.W.G.	Stranding	Bare Diameter Inches	Nominal Thickness Felted Wall Inches	*Nominal Finished Diameter Inches	Approx. Net Weight In Lbs. Per 1000 Feet	Standard Package (Feet)		
						Coils	Non-Returnable	
							Spools Large Metal	Wooden Reels
8	7/0.0486	.146	.040	.226	67	500	—	3500
10	7/0.0385	.116	.040	.196	46	1000	1000	4500
12	7/0.0305	.092	.040	.172	32	1000	1500	6000
14	7/0.0242	.073	.040	.153	23	1000	2000	7500
16	7/0.0192	.058	.040	.138	16	1000	2500	10000
18	7/0.0152	.046	.040	.126	12	1000	3000	10000
20	7/0.0121	.036	.040	.116	10	1000	4000	10000

Flexible Stranded Moistemp:	Table WCCF — Copper	Table WCMF — Monel	Table WCNF — Nickel
Flexible Stranded Hi-Temp:	Table XCCF — Copper	Table XCMF — Monel	Table XCNF — Nickel

8	165/30	.151	.040	.231	68	500	—	3000
10	104/30	.120	.040	.200	46	1000	1000	4500
12	65/30	.095	.040	.175	32	1000	1500	6000
14	41/30	.075	.040	.155	22	1000	2000	7500
16	26/30	.059	.040	.139	16	1000	2500	10000
18	16/30	.045	.040	.125	12	1000	3000	10000
20	10/30	.038	.040	.118	10	1000	4000	10000

*Finished diameter given above is average. A tolerance of plus or minus 5% is necessary due to variations in process of manufacture.

NEW HAVEN, CONNECTICUT

**.030" OR .040" TRIPLED
APPLIANCE LEAD WIRES
COPPER, NICKEL OR MONEL
SOLID OR STRANDED CONDUCTORS**

300 VOLT ALL-ASBESTOS TRIPLED APPLIANCE LEAD WIRES

FOR ELECTRIC RANGES AND OTHER HEAT GENERATING EQUIPMENT IN WHICH A TRIPLED LEAD WIRE CONSTRUCTION IS PREFERRED TO SINGLE CONDUCTORS.

MAXIMUM OPERATING TEMPERATURES: HI-TEMP—200°C. (392°F.)
MOISTEMP—125°C. (257°F.)



SOLID



STRANDED

"HI-TEMP" Insulation—Heat and Flame resisting—For use in High Temperatures, little or no moisture.
"MOISTEMP" Insulation—Heat, Flame and Moisture resisting—Use for Heat and Moisture conditions.
Conductors—Solid or Stranded Copper, Nickel or Monel—Insulated with .030" or .040" of felted asbestos.

Specified standard conductors are insulated with an .030" or .040" wall of felted asbestos impregnated with either "Hi-Temp" heat and flame resisting compound or "Moistemp" heat, flame and moisture resisting compound, polarized with black, white and red finishes, and tripled. Special conductors such as tinned copper, copperweld and alloys other than nickel or monel can be supplied on special

order. When ordering be sure to give table letters indicating type of conductor and insulation thickness wanted and specify preference for either "Hi-Temp" or "Moistemp" impregnation or other colors. The Hi-Dielectric Range and Lead Wires on the following pages are also tripled if desired.

.030" Solid Moistemp:	Table WDC—Copper	Table WDM—Monel	Table WDN—Nickel
.030" Solid Hi-Temp:	Table XDC—Copper	Table XDM—Monel	Table XDN—Nickel
.040" Solid Moistemp:	Table WEC—Copper	Table WEM—Monel	Table WEN—Nickel
.040" Solid Hi-Temp:	Table XEC—Copper	Table XEM—Monel	Table XEN—Nickel

Size A.W.G.	Bare Diameter Inches	Nominal Finished Diameter* (Inches)		Approx. Net Weight Per M Ft. (Pounds)		Standard Package (Feet)	
		.030"	.040"	.030"	.040"	Coils	Wooden Reels
12	.081	.303	.346	83	92	250	1500
14	.064	.267	.310	57	65	250	2000
16	.051	.239	.282	40	47	500	2000
18	.040	.215	.258	30	35	500	2500

.030" Coarse Stranded Moistemp:	Table WDSC—Copper	Table WDMS—Monel	Table WDNS—Nickel
.030" Coarse Stranded Hi-Temp:	Table XDSC—Copper	Table XDMS—Monel	Table XDNS—Nickel
.040" Coarse Stranded Moistemp:	Table WECS—Copper	Table WEMS—Monel	Table WENS—Nickel
.040" Coarse Stranded Hi-Temp:	Table XECS—Copper	Table XEMS—Monel	Table XENS—Nickel

Size A.W.G.	Stranding	Bare Diameter Inches	Nominal Finished Diameter* (Inches)		Approx. Net Weight Per M Ft. (Pounds)		Standard Package (Feet)	
			.030"	.040"	.030"	.040"	Coils	Wooden Reels
12	7 .0305	.092	.327	.370	89	98	250	1000
14	7 .0242	.073	.286	.329	61	71	250	1500
16	7 .0192	.058	.254	.297	43	52	500	2000
18	7 .0152	.046	.228	.271	34	40	500	2500

.030" Flexible Stranded Moistemp:	Table WDCF—Copper	Table WDMF—Monel	Table WDNF—Nickel
.030" Flexible Stranded Hi-Temp:	Table XDCE—Copper	Table XDME—Monel	Table XDNE—Nickel
.040" Flexible Stranded Moistemp:	Table WECF—Copper	Table WEMF—Monel	Table WENF—Nickel
.040" Flexible Stranded Hi-Temp:	Table XECF—Copper	Table XEMF—Monel	Table XENF—Nickel

12	65/30	.095	.334	.377	89	98	250	1000
14	41/30	.075	.290	.334	60	68	250	1500
16	26/30	.059	.256	.299	43	50	500	2000
18	16/30	.045	.226	.269	31	37	500	2500

*Finished diameter given above is average. A tolerance of plus or minus 5% is necessary due to variations in process of manufacture.

ROCKBESTOS PRODUCTS CORPORATION

300 VOLT ASBESTOS INSULATED WIRES

NEMA† TYPES A and AI

"MOISTEMP" INSULATION—FOR RANGES, WATER HEATERS, APPLIANCES AND APPARATUS REQUIRING WIRE HIGH IN DIELECTRIC STRENGTH AND RESISTANCE TO HEAT, HUMIDITY AND MOISTURE.

"HI-TEMP" INSULATION—FOR APPLIANCES REQUIRING ONLY A HEAT AND FLAME RESISTANT INSULATION.

MAXIMUM OPERATING TEMPERATURES: MOISTEMP—125°C. (257°F.)—NEMA TYPE AI
HI-TEMP—200°C. (392°F.)—NEMA TYPE A

NEMA TYPES A and AI
ASBESTOS INSULATED WIRES
SOLID OR STRANDED CONDUCTORS

†NEMA Standard WC-1, 1955 lists Types A and AI in 30 and 40 mils of asbestos insulation, plus a separator if used. The "Moistemp" constructions shown with 33 and 13 mils of insulation have a 5 mil dielectric tape insert plus the 30 and 40 mil NEMA Standard insulation.



STRANDED OR SOLID

"MOISTEMP" Insulation—Heat, Flame and moisture resisting—Use for Heat and moisture conditions.

TABLE WSC—Solid Copper Conductor.

TABLE WSCF—Stranded Copper Conductor.

"HI-TEMP" Insulation—Heat and Flame resisting—Use for High Temperatures, little or no moisture.

TABLE XSC—Solid Copper Conductor.

TABLE XSCF—Stranded Copper Conductor.

HOW and WHERE TO SPECIFY EITHER "MOISTEMP" or "HI-TEMP" INSULATIONS

These NEMA Type Appliance wires are furnished in two basic types of impregnations:

"MOISTEMP" impregnation in the felted wall is designed for applications where the temperature is high but not extreme, and where humidity and moisture may cause current leakage. For example, in some appliances and devices the insulation at the ends of the wires attached to heating units is exposed to high temperatures while the rest of the wire run may be in a moist, lower temperature area. For these applications specify "Moistemp" impregnation as it is not only heat and flame resistant but moisture resisting as well.

"HI-TEMP" Impregnation in the felted wall is heat and flame resisting and designed for applications where the temperature is usually high with little or no moisture. Under heat, and because of high wattage and close confinement, moisture accumulated during the "off" period is dissipated before a leakage path or short can develop. This condition exists in many products, but care must be exercised in determining whether the temperature rise is sufficiently rapid to dry out the insulation, as a slowly rising temperature will permit leakage to build up to a point where a short may occur.

Moistemp: Solid

Table WSC — Copper

High dielectric tape and felted asbestos insulation totaling 43 mils on Sizes 8-10-12; 33 mils on Size 14.

Size A.W.G.	Stranding	Bare Diameter Inches	*Nominal Finished Diameter Inches	Approx. Net Weight In Lbs. Per 1000 Feet	Standard Package (Feet)		
					Coils	Large Metal Spools	Wooden Reels
14	Solid	.064	.130	24	1000	2500	10000
12	Solid	.081	.167	38	1000	1500	6500
10	Solid	.101	.188	54	1000	1000	5000
8	Solid	.128	.214	79	500	—	4000

Moistemp: Stranded

Table WSCF — Copper

Same insulation note as above.

14	41/30	.075	.141	25	1000	2000	8500
12	65/30	.095	.181	40	1000	1500	5000
10	105/30	.120	.206	57	1000	1000	4000
8	165/30	.176	.237	85	500	—	3000

Hi-Temp: Solid

Table XSC — Copper

40 mils of felted asbestos on Sizes 8-10-12; 30 mils of felted asbestos on Size 14.

14	Solid	.064	.124	21	1000	2500	10000
12	Solid	.081	.161	36	1000	1500	6500
10	Solid	.101	.182	51	1000	1000	5000
8	Solid	.128	.208	76	500	—	4000

Hi-Temp: Stranded

Table XSCF — Copper

Same insulation note as above.

14	41/30	.075	.135	22	1000	2500	10000
12	65/30	.095	.175	38	1000	1500	6000
10	105/30	.120	.200	55	1000	1000	4500
8	165/30	.176	.231	81	500	—	3000

*Finished diameter given above is average. A tolerance of plus or minus 5% is necessary due to variations in process of manufacture.

NEW HAVEN, CONNECTICUT

HI-DIELECTRIC .033"

RANGE AND APPLIANCE LEAD WIRES
COPPER, NICKEL OR MONEL
SOLID OR STRANDED CONDUCTORS

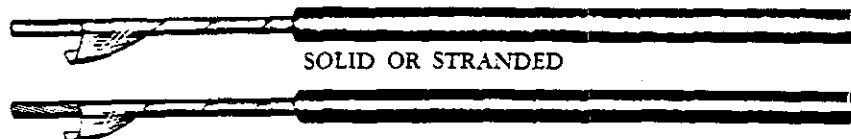
300 VOLT HI-DIELECTRIC .033

(NEMA STANDARD)

RANGE AND APPLIANCE LEAD WIRES

FOR ELECTRIC RANGES, WATER HEATERS, APPLIANCES AND APPARATUS REQUIRING A WIRE WHICH IS HIGH IN DIELECTRIC STRENGTH AND RESISTANCE TO HEAT, HUMIDITY AND MOISTURE.

MAXIMUM OPERATING TEMPERATURES: HI-TEMP—200°C. (392°F.)
MOISTEMP—125°C. (257°F.)

**SOLID OR STRANDED**

"HI-TEMP" Insulation—Heat and Flame resisting—For use in High Temperatures, little or no moisture.
"MOISTEMP" Insulation—Heat, Flame and Moisture resisting—Use for Heat and Moisture conditions.
Conductors—Solid or Stranded Copper, Nickel or Monel—Insulated with high dielectric tape and felted asbestos to a combined thickness of .033".

Specified standard conductors are insulated with high-dielectric tape and felted asbestos to a combined thickness of .033" to provide high resistance to both heat and moisture. The asbestos insulation is impregnated with either "Hi-Temp" heat and flame resisting compound or "Moistemp" heat, flame and moisture resisting compound as specified. Standard colors: black, white and red. Gray, green, blue, orange, brown and yellow on special order. When ordering be sure to specify color and give table letters indicating type of conductor wanted

and preference for either "Hi-Temp" or "Moistemp" impregnation.

The Range and Appliance lead wires listed on this page meet all requirements of the latest NEMA STANDARDS FOR ASBESTOS INSULATED RANGE WIRE.

Special conductors such as tinned copper, copperweld and alloys other than nickel or monel can be supplied on special order. Also made up in tripled construction like the wires illustrated on page 10.

Solid Moistemp: Table WFC — Copper Table WFM — Monel Table WFN — Nickel
Solid Hi-Temp: Table XFC — Copper Table XFM — Monel Table XFN — Nickel

Size A.W.G.	Bare Diameter Inches	Nominal Thickness Tape and Felted Wall Inches	*Nominal Finished Diameter Inches	Approx. Net Weight In Lbs. Per 1000 Feet	Standard Package (Feet)		
					Coils	Non-Returnable	
						Large Metal Spools	Wooden Reels
**10	.102	.033	.168	43	1000	1000	6500
**12	.081	.033	.147	29	1000	1500	8500
14	.064	.033	.130	20	1000	2500	10000
16	.051	.033	.117	14	1000	3500	10000
18	.040	.033	.106	11	1000	4500	10000

Coarse Stranded Moistemp: Table WFCs — Copper Table WFMS — Monel Table WFNS — Nickel
Coarse Stranded Hi-Temp: Table XFCS — Copper Table XFMS — Monel Table XFNS — Nickel

Size A.W.G.	Stranding	Bare Diameter Inches	Nominal Thickness Tape and Felted Wall Inches	*Nominal Finished Diameter Inches	Approx. Net Weight In Lbs. Per 1000 Feet	Standard Package (Feet)		
						Coils	Non-Returnable	
							Large Metal Spools	Wooden Reels
**10	7 .0385	.116	.033	.182	44	1000	1000	5000
**12	7 .0305	.092	.033	.158	31	1000	1500	7500
14	7 .0242	.073	.033	.139	21	1000	2000	10000
16	7 .0192	.058	.033	.124	15	1000	3000	10000
18	7 .0152	.046	.033	.112	12	1000	4000	10000

Flexible Stranded Moistemp: Table WFCF — Copper Table WFMF — Monel Table WFNF — Nickel
Flexible Stranded Hi-Temp: Table XFCF — Copper Table XFMF — Monel Table XFNF — Nickel

Size	Stranding	Bare Diameter	Nominal Thickness	*Nominal Finished Diameter	Approx. Net Weight	Coils	Large Metal Spools	Wooden Reels
**10	104/30	.120	.033	.186	46	1000	1000	5000
**12	65/30	.095	.033	.161	31	1000	1500	6500
14	41/30	.075	.033	.141	21	1000	2000	8500
16	26/30	.059	.033	.125	15	1000	3000	10000
18	16/20	.045	.033	.111	11	1000	4000	10000

*Finished diameter given above is average. A tolerance of plus or minus 5% is necessary due to variations in process of manufacture.

**These sizes not NEMA Standard—NEMA requires 40 mils insulation for these sizes. See page 11.

ROCKBESTOS PRODUCTS CORPORATION

300 VOLT HI-DIELECTRIC .043" RANGE AND APPLIANCE LEAD WIRES

FOR ELECTRIC RANGES, WATER HEATERS, APPLIANCES AND APPARATUS
REQUIRING A WIRE WHICH IS HIGH IN DIELECTRIC STRENGTH AND RE-
SISTANCE TO HEAT, HUMIDITY AND MOISTURE.

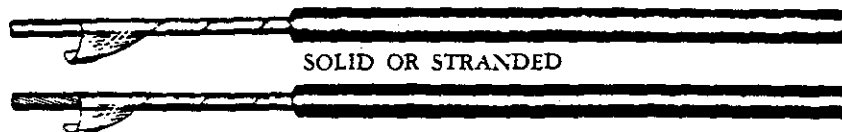
MAXIMUM OPERATING TEMPERATURES: HI-TEMP—200°C. (392°F.)
MOISTEMP—125°C. (257°F.)

HI-DIELECTRIC .043"

RANGE AND APPLIANCE LEAD WIRES

COPPER, NICKEL OR MONEL

SOLID OR STRANDED CONDUCTORS



SOLID OR STRANDED

"HI-TEMP" Insulation—Heat and Flame resisting—For use in High Temperatures, little or no moisture.
"MOISTEMP" Insulation—Heat, Flame and Moisture resisting—Use for Heat and Moisture conditions.
Conductors—Solid or Stranded Copper, Nickel or Monel—Insulated with high dielectric tape and felted
asbestos to a combined thickness of .043".

Specified standard conductors are insulated with high-dielectric tape and felted asbestos to a combined thickness of .043" to provide high resistance to both heat and moisture. The asbestos insulation is impregnated with either "Hi-Temp" heat and flame resisting compound or "Moistemp" heat, flame and moisture resisting compound as specified. Standard colors: black, white and red. Gray, green, blue, orange, brown and yellow on special order. When ordering be sure to specify color and give table letters indicating type of con-

ductor wanted and preference for either "Hi-Temp" or "Moistemp" impregnation.

The Range and Appliance Lead wires listed on this page meet the test requirements for the latest NEMA STANDARDS FOR ASBESTOS INSULATED RANGE WIRE.

Special conductors such as tinned copper, copperweld and alloys other than nickel or monel can be supplied on special order.

Also made up in tripled construction like the wires illustrated on page 10.

Solid Moistemp: Table WGC — Copper Table WGM — Monel Table WGN — Nickel
Solid Hi-Temp: Table XGC — Copper Table XGM — Monel Table XGN — Nickel

Size A.W.G.	Bare Diameter Inches	Nominal Thickness Tape and Felted Wall Inches	*Nominal Finished Diameter Inches	Approx. Net Weight In Lbs. Per 1000 Feet	Standard Package (Feet)		
					Coils	Non-Returnable	
						Large Metal Spools	Wooden Reels
8	.128	.043	.214	66	500	—	4000
10	.102	.043	.188	45	1000	1000	5000
12	.081	.043	.167	32	1000	1500	6500
14	.064	.043	.150	22	1000	2000	8500
16	.051	.043	.137	16	1000	2500	10000
18	.040	.043	.126	13	1000	3000	10000

Coarse Stranded Moistemp: Table WGCS — Copper Table WGMS — Monel Table WGNS — Nickel
Coarse Stranded Hi-Temp: Table XGCS — Copper Table XGMS — Monel Table XGNS — Nickel

Size A.W.G.	Stranding	Bare Diameter Inches	Nominal Thickness Tape and Felted Wall Inches	*Nominal Finished Diameter Inches	Approx. Net Weight In Lbs. Per 1000 Feet	Standard Package (Feet)		
						Coils	Non-Returnable	
							Large Metal Spools	Wooden Reels
8	7/0.486	.146	.043	.232	69	500	—	3000
10	7/0.385	.116	.043	.202	48	1000	1000	4000
12	7/0.305	.092	.043	.178	34	1000	1500	6000
14	7/0.242	.073	.043	.159	24	1000	2000	7500
16	7/0.192	.058	.043	.144	17	1000	2500	8500
18	7/0.152	.046	.043	.132	13	1000	2500	10000

Flexible Stranded Moistemp: Table WGCF — Copper Table WGMF — Monel Table WGNF — Nickel
Flexible Stranded Hi-Temp: Table XGCF — Copper Table XGMF — Monel Table XGNF — Nickel

Size A.W.G.	Stranding	Bare Diameter Inches	Nominal Thickness Tape and Felted Wall Inches	*Nominal Finished Diameter Inches	Approx. Net Weight In Lbs. Per 1000 Feet	Standard Package (Feet)		
						Coils	Non-Returnable	
							Large Metal Spools	Wooden Reels
8	165/30	.151	.043	.237	71	500	—	3000
10	104/30	.120	.043	.206	48	1000	1000	4000
12	65/30	.095	.043	.181	34	1000	1500	5000
14	41/30	.075	.043	.161	23	1000	2000	6500
16	26/30	.059	.043	.145	17	1000	2500	8500
18	16/30	.045	.043	.131	13	1000	2500	10000

*Finished diameter given above is average. A tolerance of plus or minus 5% is necessary due to variations in process of manufacture.

NEW HAVEN, CONNECTICUT

U. L. APPROVED
STOVE WIRES
 COPPER, NICKEL OR MONEL
 SOLID OR STRANDED CONDUCTORS
 "MOISTEMP"—"HI-TEMP"

300 VOLT ALL-ASBESTOS

Underwriters' Approved
STOVE WIRES

FOR RANGES, HOT PLATES, OVENS, FOOD WARMERS, GRILLS, DRYERS, SPACE HEATERS, LEADS FOR HEAT GENERATING APPARATUS, ETC.

MAXIMUM OPERATING TEMPERATURES: HI-TEMP—200°C. (392°F.)
 MOISTEMP—125°C. (255°F.)



1. SOLID OR STRANDED COPPER, NICKEL OR MONEL CONDUCTOR
2. FELTED ASBESTOS IMPREGNATED WITH EITHER "HI-TEMP" OR "MOISTEMP" COMPOUNDS
3. ASBESTOS BRAID, "HI-TEMP" OR "MOISTEMP" IMPREGNATED

"HI-TEMP" Insulation—Heat and Flame resisting—Use for High Temperatures, little or no moisture.
 "MOISTEMP" Insulation—Heat, Flame and Moisture resisting—Use for Heat and Moisture conditions.

HOW and WHERE TO SPECIFY EITHER "HI-TEMP" or "MOISTEMP" INSULATIONS

These Underwriters' approved stove wires are furnished in two basic types of impregnations:
 "HI-TEMP" Impregnation in both the felted wall and braid is heat and flame resisting and designed for applications where the temperature is usually high with little or no moisture. Under heat, and because of high wattage and close confinement, moisture accumulated during the "off" period is dissipated before a leakage path or short can develop. This condition exists in many products, but care must be exercised in determining whether the temperature rise is sufficiently rapid to dry out the insulation, as a slowly rising tempera-

ture will permit leakage to build up to a point where a short may occur.
 "MOISTEMP" impregnation in both the felted wall and braid is designed for applications where the temperature is high but not extreme, and where humidity and moisture may cause current leakage. For example, in some appliances and devices the insulation at the ends of the wires attached to heating units is exposed to high temperatures while the rest of the wire run may be in a moist, lower temperature area. For these applications specify "Moistemp" impregnation as it is not only heat and flame resistant but moisture resisting as well.

CURRENT-CARRYING CAPACITIES are listed on page 7 for these wires along with Current Correction Factors for various ambient temperatures.

SPECIAL CONDUCTORS such as Copperweld or alloys other than nickel or monel or extra flexible conductors can be supplied on special order.

NOTE: Tables A and R are rated 300 volts in this catalog since stove wire is limited to a 300-volt rating, however these tables are shown in our 10-G catalog with a 600-volt rating for industrial usage.

Solid Moistemp: Table A — Copper Table AM — Monel Table AN — Nickel
 Solid Hi-Temp: Table A-300 — Copper Table AM-300 — Monel Table AN-300 — Nickel

Size	Bare Diam. Inches	Nominal Thickness — Mills		*Nominal Finished Diameter Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
		Felted Wall	Asbestos Braid				
**18 AWG	.040	30	40	.180	18	500' C	22
**16	.051	30	40	.195	22	500' C	28
14	.064	30	40	.205	28	500' C	33
12	.081	30	40	.225	38	500' C	43
10	.102	30	40	.245	52	500' C	57
8	.128	30	40	.270	69	500' C	79

Coarse Stranded Moistemp: Table R — Copper Table RM — Monel Table RN — Nickel
 Coarse Stranded Hi-Temp: Table R-300 — Copper Table RM-300 — Monel Table RN-300 — Nickel

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mills			*Nominal Finished Diameter Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'			
			Felted Wall	Asbestos Braid								
			Moistemp	Hi-Temp		Moistemp	Hi-Temp	Moistemp	Hi-Temp	Moistemp	Hi-Temp	
**18 AWG	7/.0152	.046	30	30	40	.190	.190	21	18	500' C	27	24
**16	7/.0192	.058	30	30	40	.200	.200	27	23	500' C	32	28
14	7/.0242	.073	30	30	40	.215	.215	33	29	500' C	38	35
12	7/.0305	.092	40	30	40	.255	.235	47	44	500' C	52	45
10	7/.0385	.116	40	30	40	.280	.260	63	54	500' C	69	60
8	7/.0486	.146	40	30	40	.310	.290	89	72	500' C	94	83

*Finished diameter given above is average. A tolerance of plus or minus 5% is necessary due to variations in process of manufacture.

**Not listed by Underwriters' Laboratories +C—Coils.

ROCKBESTOS PRODUCTS CORPORATION

1000 VOLT
(Underwriters' Approved)
APPLIANCE LEAD WIRE

FOR THE INTERNAL WIRING OF APPLIANCES SUCH AS FLUORESCENT FIX-
TURES.

MAXIMUM OPERATING TEMPERATURE 90°C. (194°F.)

U. L. APPROVED
1000 VOLT
APPLIANCE LEAD WIRE

1. SOLID OR STRANDED PLAIN COPPER CONDUCTORS

2. SYNTHETIC TAPE

3. IMPREGNATED FELTED ASBESTOS

This Underwriters' Approved 1000 volt Appliance lead wire is available with either solid or stranded plain copper conductors insulated with high dielectric tape and impregnated felted asbestos.

These wires were designed for the internal wiring of lighting appliances and fixtures which called for a 1000 volt

wire to operate dependably in high temperatures.

This wire is especially recommended for use in connection with cold cathode lighting fixtures where starting voltages exceed 300 volts.

These wires are furnished in black, white, and red as standard colors.

TABLE FE

1000 VOLTS

U.L. APPROVED

Size A.W.G.	Stranding	Bare Diam. Inches	Nominal Thickness—Inches		Nominal Finished Diam. Inches*	Approx. Net Wgt. In Lbs. Per 1000'	Standard Shipping Length Feet	Approx. Shipping Weight Per 1000'
			Synthetic Tape	Felted Asbestos				
18	Solid	.040	.0065	.031	.115	11	1000 C	13
16	Solid	.051	.0115	.026	.130	14	1000 C	17
14	Solid	.064	.0115	.026	.140	20	1000 C	24
Stranded								
18	16/30	.045	.0065	.031	.120	11	1000 C	13
16	26/30	.059	.0115	.026	.135	15	1000 C	18
14	41/30	.075	.0115	.026	.150	21	1000 C	25

*Finished diameter given above is average. A tolerance of plus or minus 5% is necessary due to variations in process of manufacture.

NEW HAVEN, CONNECTICUT

**U. L. APPROVED
1000 VOLT
APPLIANCE LEAD WIRE**

1000 VOLT ASBESTOS and GLASS

(Underwriters' Approved)

APPLIANCE LEAD WIRE

FOR USE IN RADIO EQUIPMENT, AMPLIFIERS AND THE INTERNAL WIRING OF ELECTRONIC EQUIPMENT.

MAXIMUM OPERATING TEMPERATURE 90°C. (194°F.)



1. SOLID OR STRANDED TINNED COPPER CONDUCTOR 2. SYNTHETIC TAPE 3. IMPREGNATED FELTED ASBESTOS 4. LACQUERED GLASS BRAID

This Underwriters' Approved 1000 volt Appliance wire is available with either solid or stranded tinned copper conductors. It is insulated with helically applied synthetic tapes and impregnated felted asbestos and covered overall with a glass braid lacquered to a hard smooth finish. Here is an easy stripping, high dielectric wire resistant to flame, heat and moisture, grease and oil.

With its 1000 volt rating it is recommended for use in Radio Equipment, Amplifiers and for the internal wiring of Electronic Equipment.

Standard finish for this wire is white lacquered glass braid. This wire can be color coded by the use of colored tracers in the glass braid.

TABLE FG

1000 VOLTS

U. L. APPROVED

Size A.W.G.	Stranding	Bare Diam. Inches	Nominal Thickness—Inches			*Nominal Finished Diam. Inches	Approx. Net Wgt. In Lbs. Per 1000'	Standard Shipping Length Feet	Approx. Shipping Weight Per 1000'
			Synthetic Tape	Felted Asbestos	Braid Thickness				
22	Solid	.025	.010	.0085	.005	.080	5	1000 C	6
20	Solid	.032	.010	.0085	.005	.085	6	1000 C	7
18	Solid	.040	.010	.0085	.005	.095	9	1000 C	10
16	Solid	.051	.010	.0085	.0075	.110	12	1000 C	14
14	Solid	.064	.010	.0085	.0075	.120	18	1000 C	21
12	Solid	.081	.010	.0085	.0075	.145	28	1000 C	34
Stranded									
22	7/30	.030	.010	.0085	.005	.085	5	1000 C	6
20	10/30	.038	.010	.0085	.005	.090	6	1000 C	7
18	16/30	.045	.010	.0085	.005	.100	9	1000 C	11
16	26/30	.059	.010	.0085	.0075	.120	12	1000 C	15
14	41/30	.075	.010	.0085	.0075	.130	18	1000 C	22
12	65/30	.095	.010	.0085	.0075	.155	29	1000 C	36

*Finished diameter given above is average. A tolerance of plus or minus 5% is necessary due to variations in process of manufacture.

ROCKBESTOS PRODUCTS CORPORATION

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405 Lexington Ave.

CLEVELAND 21, OHIO

2000 Warrensville Center Road

DALLAS 5, TEXAS

4655 N. Central Expressway

DETROIT 21, MICH.

3830 West McNichols Road

PITTSBURGH 19, PA.

2520 Koppers Bldg.

SEATTLE 3, WASHINGTON

4015 Aurora Ave.

ST. LOUIS 21, MO.

Lambert—St. Louis Municipal Airport

*BURLINGAME, CALIF.

6 Guitard Road

ATLANTA 5, GA.

3127 Maple Drive
Room 204

*CHICAGO 24, ILL.

4534 West Madison St.

LOS ANGELES 5, CAL.

4020 W. Third St.

*Warehouses: Chicago, Ill. — Burlingame, California

Manufactured in Canada by Phillips Electrical Co. (1953) Ltd., 26 Hollinger Road, Toronto 13, Ontario, Canada.

Manufactured in Australia by Cables Makers Australia Pty. Ltd., Liverpool, N.S.W., Australia.

ROCKBESTOS PRODUCTS CORPORATION

NEW HAVEN 4, CONNECTICUT

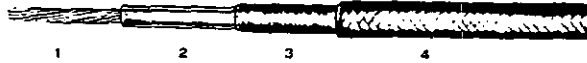
RBB 00554

300 VOLT ASBESTOS and GLASS APPLIANCE LEAD WIRE

FOR RANGES, ROASTERS, WATER and SPACE HEATERS, INFRA-RED OVENS,
LEADS FOR HEAT GENERATING APPARATUS, ETC.

MAXIMUM OPERATING TEMPERATURE 200°C. (392°F.)

**ASBESTOS and GLASS COVERED
LEAD WIRE**
NICKEL CONDUCTORS—SOLID OR STRANDED



1. NICKEL CONDUCTOR (SOLID OR STRANDED)

2. SYNTHETIC TAPE

3. FELTED ASBESTOS

4. GLASS BRAID, SILICONE COATED

This ideal high temperature insulation of high dielectric tapes combined with felted asbestos impregnated with "Hi-Temp." heat and flame resistant compound and covered overall with a silicone coated glass yarn braid.

Standard conductors for these Asbestos and Glass insulated appliance lead wires are solid and stranded nickel for a maximum operating temperature of 200°C.

These appliance lead wires are used for high temperature

applications where the temperature at terminal connections is too high to allow the use of copper conductors.

They were originally designed as leads in electric range deep well cooker units where high temperatures in confined areas along with the flexing action of raising and lowering the unit called for a wire to withstand the heat and remain permanently flexible.

Standard color: Natural (Tan) only.

TABLE AG

300 VOLT

(Asbestos-Glass Covered)

Size A.W.G.	Stranding	Bare Diameter Inches	Nominal Thickness-Mils			Nominal Finished Diam. Inches	Approx. Net Wgt. In Lbs. Per 1000'	Standard Package—Ft. Non-Returnable			Approx. Shipping Weight Per 1000'
			Dielectric Insert	Felted Wall	Braid Thickness			Coils	Lg. Metal Spools	Wooden Reels	
12	Solid	.081	2.5	30.5	7.5	.165	33.9	1000	1500	8500	40
14	Solid	.064	2.5	30.5	7.5	.150	24.8	1000	2500	10,000	29
16	Solid	.051	2.5	30.5	7.5	.135	18.4	1000	3500	10,000	22
Stranded											
12	65/.010	.095	2.5	30.5	7.5	.180	36.1	1000	1500	7500	43
14	41/.010	.075	2.5	30.5	7.5	.160	26.0	1000	2500	2500	31
16	26/.010	.059	2.5	30.5	7.5	.145	19.4	1000	4000	4000	23

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