



WESCO



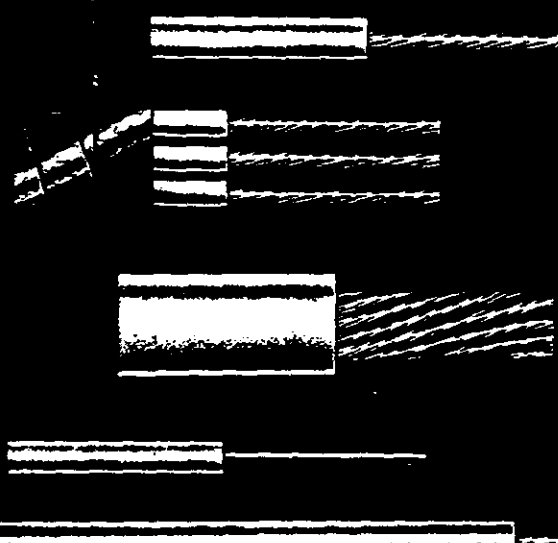
WESTINGHOUSE ELECTRIC SUPPLY CO.

Proudly Announces Distribution of

COLEMAN *All-Temp*

**HIGH TEMPERATURE
SILICONE RUBBER
WIRE AND CABLE**

PLAINTIFF'S
EXHIBIT

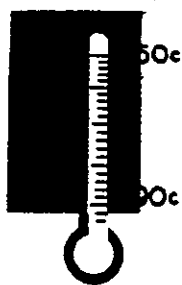


Manufactured by

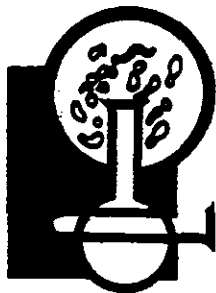


COLEMAN CABLE & WIRE COMPANY / 1300 N. RIVER ROAD • RIVER GROVE, ILL. 60171 / PHONE (AREA CODE 312) 488-4000

RBB 00302



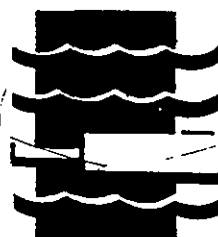
ALL-TEMP has superior properties throughout a wide temperature range . . . from as low as -90°C to as high as 250°C.



The silicone rubber compound is fungus inert, and resistant to most dilute acids, alkalis and solvents; and is non-corrosive to metals.



Dielectric strength remains constant throughout the entire temperature range and it demonstrates excellent resistance to corona and dielectric fatigue. Ozone resistance, especially at high altitudes, is outstanding.



ALL-TEMP is unaffected by high humidities, having a low moisture absorption rate. Mechanical and abrasion resiliency make it ideal for use in any type of climate, in interior or exterior applications.



It resists even direct flame for brief periods of time and, when exposed for longer periods, burns slowly with a resultant non-conductive ash. It does not emit toxic fumes when subjected to elevated temperatures.

INTRODUCTION

ALL-TEMP silicone rubber insulated wire and cable products manufactured by Coleman offer widespread opportunities for improved performance and increased operating longevity in numerous commercial applications. Silicone rubber combines the best features of inorganic silicone and oxygen with organic hydrocarbon structural units. In comparison with other types of rubber (both natural and synthetic) and most thermo-plastic insulations, ALL-TEMP is vastly superior. It provides the best physical and electrical properties for maintaining circuit integrity while resisting the normally damaging effects of high heat, extreme cold, moisture, most oils, fuels, solvents and chemicals. It also is highly fungus and ozone resistant.

GENERAL APPLICATIONS

ALL-TEMP insulated wire and cable is ideally suited for use in areas where operating temperatures range from -90°C to 250°C. It can be used near ranges, furnaces or other types of heating elements and even soldering heat won't cause the insulation to melt or peel. It can be used where very low temperatures are a factor and won't harden or crack, even when flexed after lengthy aging and exposure. ALL-TEMP can be specially formulated durable enough to be utilized even without protective sheathing or braid. This new product, ALL-TEMP "NB" performs well under the most adverse operating conditions. ALL-TEMP "NB" is highly flame-retardant and is unaffected by ultra-violet radiation. It is the perfect answer whenever dependable operation, long life and low maintenance are desired in an electrical product!

TYPICAL APPLICATIONS

Motor Lead Wire

For motors and transformers, Manufacturers' Class B, F and H. ALL-TEMP is unaffected by varnish dipping or baking.

Appliance and Fixture Wire

For wiring high wattage units, such as ranges, ovens, clothes dryers, small electrical appliances and electronic equipment. For fixture wire Types SF-2 and SFF-2 are recommended.

Radio and Television Wiring

For numerous applications where high heat resistance is an absolute necessity.

Control Cables

For steel mills, power stations, automotive manufacturing plants, cement plants, glass manufacturing, and similar industries where control and signal circuits are exposed to high ambient temperatures.

Power Cables

For power wiring in high ambient temperature locations in either humid or arid climates. Especially valuable aboard ships, where small diameters, reduced weights and flame resistance are essential requirements.

Lighting Wire

For lighting circuits in high ambient temperature installations and for power and crane wiring in excessively hot locations.

Terminal and Contactor Box Wiring

Ideal for hot locations; also for certain types of enclosed switchgear, where elevated temperatures are common.

General Rewiring

For greater electrical capacity. With its smaller diameter, ALL-TEMP insulated cable can do the same job as much thicker cables. Substantial savings in conduit can be realized.

ALL-TEMP WIRE AND CABLE ADVANTAGES

The vast superiority of ALL-TEMP silicone rubber-insulated wire and cable over wire and cable insulated with other types of insulating material is especially noteworthy in applications subject to severe and repeated temperature changes. ALL-TEMP will stand up to punishing service in electrical systems of refrigerators, freezers, aircraft, cars and other equipment where repeated heating and cooling is a prime performance factor. ALL-TEMP also is unaffected by the frequent starting, stopping and load changes of equipment such as commercial laundry machines, furnace blowers, space heaters, transformers and similar devices. Because of this, it offers valuable protection against equipment breakdown.

ALL-TEMP "NB" can even be used without an outer sheath of protective braid. This makes it ideal for lead wires for motors, transformers and power tools, for example . . . where really tough performance is vital. In addition, because it's highly resistant to abrasion, ALL-TEMP "NB" finds a ready market in power plants, pulverizing mills, foundries and other dusty locations. Because the use of ALL-TEMP reduces service calls, long-term warranties mean more to your customers and cost you less to maintain.

GENERAL PROPERTIES

With ozone resistance approaching that of mica, ALL-TEMP silicone rubber is highly resistant to ozone, corona and dielectric fatigue; demonstrating outstanding superiority to organic rubbers and thermo-plastics in this respect. Dielectric strength remains constant throughout a wide temperature range and fatigue strength under continuous stress is high.

ALL-TEMP is odorless, tasteless, non-corrosive to metals and non-adhesive. It is practically unaffected by lubricating, animal and vegetable oils, as well as alcohols, chlorinated diphenyls and most dilute acids and bases. Certain solvents cause temporary swelling, but no permanent damage.



In testing for flame resistance, a sample of ALL-TEMP silicone rubber-insulated wire was held directly in the flame of a propane-torch. The material did not support combustion even when 1800°F flame had been applied for 25 minutes. Even then, it burned slowly to a white non-conductive ash (see inset) that still insulated the wire sufficiently to light the lamp!

Property	Test Method	Value
Specific Gravity	—	1.2
Hardness, Shore A scale	ASTM D-676	80
Tensile Strength, psi	ASTM D-412	895
Elongation, % minimum	ASTM D-412	150
Cold Bend, °C	MIL-W-16878B	-70
Dielectric Strength, volts/mil	ASTM D-149	
a. Unconditioned		500
b. 1 week water at 70°C		400
Surface Resistivity, ohms	ASTM D-257	greater than 10 ¹¹
Volume Resistivity, ohms-cm	ASTM D-257	
a. at 25°C		greater than 10 ¹⁴
b. at 200°C		10 ¹¹
Dielectric Constant	ASTM D-150	
a. at 10 ² cycles		2.92
b. at 10 ⁴ cycles		2.92
Power Factor	ASTM D-150	
a. at 10 ² cycles		0.0006
b. at 10 ⁴ cycles		0.0006
Water Absorption, %	ASTM D-570	0.8
Corona Resistance	MIL-C-17B	excellent

SUMMING UP THE MANY ADVANTAGES OF ALL-TEMP SILICONE RUBBER-INSULATED WIRE AND CABLE . . .

Heat stable to 250°C
Flexible down to -90°C
Unaffected by severe thermal cycling
Resists aging, under heat and outdoors
Unaffected by ultra-violet radiation
Resists moisture and chemicals
Highly flame retardant
Unaffected by ozone and corona
Tough enough for unbraided lead wires

LISTING A FEW OF THE MANY INDUSTRIES AND APPLICATIONS WHERE ALL-TEMP MAY BE USED . . .

In high-heat locations . . . near furnaces, ranges, ovens
In aircraft, spacecraft, ships, electric locomotives, polar equipment
In refrigerators, freezers, clothes washers, dryers, cars, trucks
In commercial laundry equipment, furnace blowers, space heaters
In portable power tools, radios, television sets, transformers
In power plants, pulverizing mills, foundries, cement plants
In high tension wiring, kilns, soaking pits, ceramic ovens
In rolling mills, arc furnaces, steel mills, glass manufacturing
In computers, electric typewriters and adding machines, sanitary and food equipment



WESCO BRANCH OFFICES



ARIZONA

Phoenix—2001 N. 23rd Ave.
Tucson—1938 E. 18th St.

258-7211
MAINE 3-5821

ARKANSAS

Little Rock—1915 E. 17th St.

Franklin 2-5154

CALIFORNIA

Anaheim—165 Liberty Ave.
Cancero—830 Diamond Way
Fresno—2120 S. Van Ness
Hayward—21612-20 W. Blvd.
Los Angeles—905 E. 2nd St.
North Hollywood—13213 Sherman Way
Oakland—1696 W. Grand Ave.
Richmond—444 S. First St.
Sacramento—1730 14th St.
San Bernardino—720 College Dr.
San Carlos—801 American St.
San Francisco—201 Potrero Ave.
San Jose—292 Stockton Ave.

879-8200
MUIberry 5-9270
264-5091
ELgin 1-6442
MADison 9-4161
983-1070
652-3770
BEacon 5-8660
444-8525
Turner 9-9791
591-9674
362-3733
735-3011

CONNECTICUT

Hartford—20 Queen St.
New Haven—178 Wallace St.

249-5792
777-3601

DELAWARE

Wilmington—Five Gernay Dr.

Olympia 5-9611

DIST. OF COLUMBIA

Washington—935 Brentwood Rd. N.E.

628-8843

FLORIDA

Fort Lauderdale—1223 N.E. Flagler Dr.
Jacksonville—1446 Haines St.
Merritt Island—1700 B Causeway
Miami—3550 N.W. 33rd St.
Orlando—1604 Sligh Blvd.
Tampa—417 Ellamae Ave.

524-6566
ELgin 5-3445
636-0161
633-2481
423-2561
223-4271

GEORGIA

Albany—610 N. Washington St.
Atlanta—505 Wesco Way, N.W.
Columbus—1365 Warren Williams Rd.
Savannah—580 Indian St.

HEmlock 2-1285
351-5200
323-1616
233-9681

IDAHO

Boise—318 S. Capitol Blvd.

342-3531

ILLINOIS

Chicago—113 N. May St.
Clearing—6233 S. Oak Park Ave.
Danville—603 N. Gilbert St.
Peoria—915 N.E. Adams St.
Rockford—2121—15th St.

461-7200
LU 6-2100
442-1901
673-0707
398-4600

INDIANA

Evansville—401 Third Ave.
Fort Wayne—125 E. Murray St.
Hammond—6355 Indianapolis Blvd.
Indianapolis—1560 Stadium Dr.
Muncie—2315 N. Walnut St.

HArrison 3-1152
744-1175
TIliden 4-9400
MEIrose 2-3301
284-6335

IOWA

Cedar Rapids—809 First St. S.E.
Davenport—1531 W. River St.
Des Moines—107—12th St.
Sioux City—1909 Pierce St.
Waterloo—300 W. Third St.

363-7471
323-9966
283-2082
255-7634
234-7716

KANSAS

Wichita—819 E. Indianapolis St.

AMherst 7-4387

LOUISIANA

Baton Rouge—2511 Michelli Dr.
New Orleans—2536 Poydras St.
Shreveport—1535 Wilkinson St.

EL 7-0603
524-5411
423-4121

MAINE

Augusta—98 Water St.
Bangor—175 Broad St.
Portland—46 Cove St.

623-3844
942-6706
772-6507

MARYLAND

Baltimore—1718 Edison Hwy.
Hagerstown—408 E. Antietam
Salisbury—641 Roland St.

327-4300
739-8550
742-2193

MASSACHUSETTS

Boston—375 Harrison Ave.
Springfield—545 St. James Ave.
Worcester—16 Brogle St.

HUBbard 2-5300
REpublic 4-3101
653-2680

MICHIGAN

Center Line—26636 Van Dyke Ave.
Detroit—2211 W. Edsel Ford Expressway
Flint—601 Kelso St.
Grand Rapids—1200 Front St., N.W.
Kalamazoo—116 E. Ransom St.
Lansing—2730 Alpha St.
Saginaw—220 S. Second St.

SL 8-4600
873-4000
238-1671
459-4664
345-8672
IVanhoe 4-8461
754-0483

MINNESOTA

Duluth—330 S. First Ave., E.
Minneapolis—1145 Glenwood Ave.
St. Paul—350 University Ave., E.

727-7422
927-6551
227-6581

MISSISSIPPI

Jackson—325 S. Farish St.

352-8354

MISSOURI

Kansas City—1321 W. 13th St.
Springfield—1253 St. Louis Ave.
St. Louis—1011 Spruce St.

GR 1-1180
UN 2-3724
421-6911

MONTANA

Billings—302 N. 15th St.
Butte—949 S. Montana St.

252-0176
792-2374

NEBRASKA

Lincoln—815 K Street
Omaha—117 N. 13th St.

432-0101
345-8700

NEW HAMPSHIRE

Manchester—140 Hayward St.

625-5456

NEW JERSEY

Camden—1995 Ferry Ave.
Newark—555 South St.
Trenton—578 Perry St.

Woodlawn 6-2668
465-2222
695-5421

NEW MEXICO

Albuquerque—816 First St., N.W.

247-3646

NEW YORK

Albany—17 Warehouse Row
Hicksville—69 Hazel St.
Long Island City—29-50 Northern Blvd.
Poughkeepsie—50 Pershing Ave.
Rochester—711 Exchange St.
Syracuse—Teall Ave. & Arterial Rd.
Utica—112 N. Genesee St.
Vestal—4301 Old Vestal Rd.
Watertown—914 Water St.

459-1800
WElls 8-2800
692-3211
454-5090
BAker 5-5590
463-9581
797-0420
RA 9-1561
788-7700

NORTH CAROLINA

Asheville—142 Church St.
Charlotte—333 Dalton Ave.
Greensboro—829 Huffman St.
Raleigh—319 W. Martin St.

ALpine 4-3271
377-3471
272-5891
834-8211

NORTH DAKOTA

Fargo—405 14th St., N.

ADams 2-4446

OHIO

Akron—600 S. High St.
Canton—500 Garfield Ave., S.W.
Cincinnati—4545 Chickering St.
Cleveland—1101 E. 55th St.
Columbus—930 Williams Ave.
Dayton—1223 E. Fourth St.
Lima—1301 Bellefontaine Ave.
Massfield—41 E. Longview Ave.
Middletown—1725 Yankee Road
Toledo—1225 E. Manhattan Blvd.
Youngstown—242 W. Wood St.

248-6681
454-8037
542-4300
579-2121
AXminister 4-5261
461-3720
225-8080
524-2711
424-1216
729-3821
743-4146

OKLAHOMA

Oklahoma City—500 N. Pennsylvania Ave.
Tulsa—8716 E. 12th St.

525-6611
TEmple 8-3344

OREGON

Medford—1233 Court St.
Portland—3265 N.W. Yeon

773-4556
224-4200

PENNSYLVANIA

Allentown—745 Union Blvd.
Erie—1107 Hess Ave.
Harrisburg—2550 Paxton St.
Johnstown—209 Broad St.
New Brighton—7th St. & 4th Ave.
Norristown—1340 E. Main St.
Philadelphia—141 N. 11th St.
Pittsburgh—209 W. General Robinson St.
Reading—340 Buttonwood St.
Williamsport—465 Heppburn St.
York—24 Parkway Blvd.

434-5107
GLendale 4-8191
564-5910
536-8761
843-1810
277-2828
878-1300
255-3800
376-7236
322-6183
843-0891

RHODE ISLAND

Providence—1 Corliss St.

TEmple 1-7220

SOUTH CAROLINA

Columbia—717 Lady St.
Greenville—945 Lowndes Hill Rd.

ALpine 6-4941
233-6201

SOUTH DAKOTA

Sioux Falls—212 W. Fourth St.

336-1844

TENNESSEE

Kingsport—430 Clay St.
Knoxville—809 Willow Ave.
Memphis—845 N. Main St.

247-6195
524-8644
527-7631

TEXAS

Amarillo—920 W. Ninth Ave.
Beaumont—1655 Louisiana St.
Corpus Christi—110 N. Staples St.
Dallas—650 Latimer St.
Fort Worth—3003 Shotts St.
Houston—1903 Ruiz St.
Lubbock—605 Main St.
San Antonio—1119 Camden St.

DRake 2-6536
TERminal 3-6333
TUlip 2-3351
742-2401
EDison 6-5611
224-7791
PORter 5-6396
223-9181

UTAH

Ogden—2660 Lincoln Ave.
Salt Lake City—210 Rio Grande St.

EXport 4-2691
322-2441

VERMONT

Burlington—208 Flynn Ave.

864-9885

VIRGINIA

Danville—124 Trade St.
Hampton—418 Aberdeen Rd.
Newport News—1426—27th St.
Norfolk—1270 Bolton St.
Petersburg—33 N. Crater Rd.
Richmond—511 E. Byrd St.
Roanoke—19th St. & Salem Ave., S.W.

792-2274
826-6730
247-6368
625-7451
REgent 2-1222
649-9061
344-3271

WASHINGTON

Everett—3011 Broadway
Seattle—2233 Sixth Ave., S.
Spokane—E. 2025 Trent Ave.
Tacoma—1325 S. Tacoma Way
Yakima—210 W. "B" St.

ALpine 9-4173
MAIn 3-7001
KE 5-3082
GREENfield 4-9476
GLancourt 3-4701

WEST VIRGINIA

Clarksburg—315 N. 4th St.
Wheeling—1803 Eoff St.

624-6311
232-5120

WISCONSIN

Green Bay—310 S. Oneida
Madison—110 N. Thornton Ave.
Milwaukee—546 N. Broadway Ave.
Racine—14th & Villa

435-3751
255-4887
BRoadway 6-1800
637-7236



POWER CABLE
For voltages of 600 to 5000 volts. With tinned copper, stranded conductor; silicone rubber insulation; and fiberglass or asbestos braided covering.



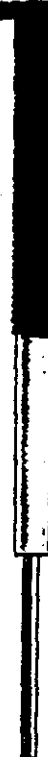
CONTROL CABLE
For 600-volt transmission. With tinned copper, stranded conductor; silicone rubber insulation; and fiberglass or asbestos braided covering.



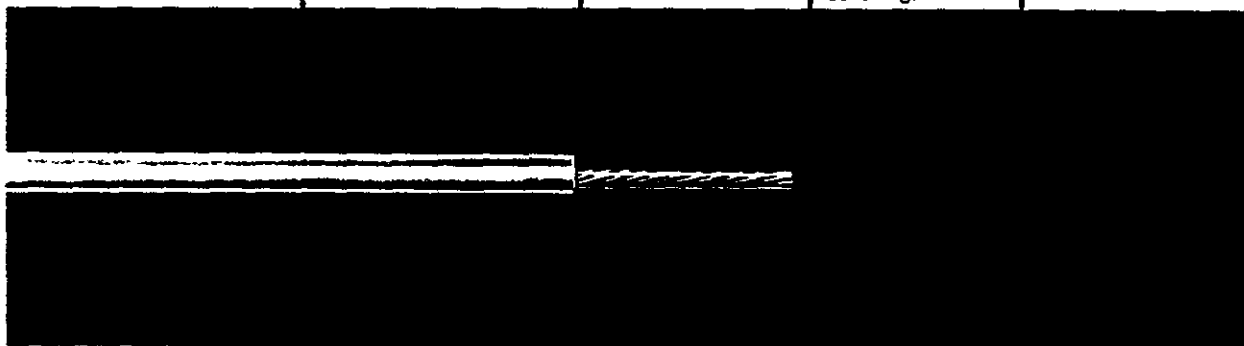
APPLIANCE AND FIXTURE WIRE
For 300 to 600-volt transmission. With tinned copper, stranded conductor; silicone rubber insulation; and fiberglass or asbestos braided covering.



APPARATUS AND MOTOR LEAD WIRE
For 600-volt transmission. With tinned copper, stranded conductor; silicone rubber insulation; and fiberglass or asbestos braided covering.



LIGHTING WIRE
For 600-volt transmission. With solid tinned, copper conductor; silicone rubber insulation; and fiberglass or asbestos braided covering.



SPECIALLY FABRICATED WIRE AND CABLE AVAILABLE UPON REQUEST

Custom fabricating of ALL-TEMP Silicone Rubber-insulated Wire and Cable—and any other product of Coleman Cable and Wire Company—manufactured to your specifications and requirements, is available upon request. The assistance of Coleman engineers to aid you in establishing your requirements also is available. For complete details on this service, please return the enclosed card.

Coleman offers the most complete wire and cable manufacturing capability of any manufacturer.

RBB 00306

"ALL-TEMP" LIST PRICE SCHEDULE

SRML SILICONE RUBBER FLEXIBLE MOTOR LEAD WIRE

CONSTRUCTION SPECIFICATIONS

PRICES PER 1000 FEET

Catalog No.	Size	Stranding	Insulation (64ths)	Braid (Mils)	Shipping Wt. per 1000 ft	Less than 500 ft	500 to 999 ft	2 000 to 9 999 ft	10 000 and over
510018	18	16/.010	2	6	13 lbs.	\$ 65.60	\$ 58.30	\$ 54.90	\$ 48.60
510016	16	26/.010	2	6	17 lbs.	81.30	72.20	68.20	60.20
510014	14	41/.010	2	6	23 lbs.	101.00	89.00	83.80	74.20
510012	12	65/.010	2	6	33 lbs.	119.00	106.00	99.10	87.70
510010	10	104/.010	3	6	55 lbs.	210.00	186.00	176.00	155.00
510008	8	133/.011	4	6	80 lbs.	334.00	297.00	280.00	247.00
510006	6	133/.0140	4	6	141 lbs.	451.00	401.00	378.00	334.00
510004	4	133/.0177	4	9	205 lbs.	609.00	542.00	510.00	451.00
510002	2	133/.0223	4	9	301 lbs.	779.00	693.00	653.00	577.00
510001	1	259/.0180	5	20	402 lbs.	1005.00	893.00	841.00	744.00
510100	1/0	259/.0202	5	20	482 lbs.	1203.00	1070.00	1007.00	891.00
510020	2/0	259/.0227	5	20	598 lbs.	1430.00	1271.00	1197.00	1059.00
510030	3/0	259/.0255	5	20	764 lbs.	1708.00	1518.00	1430.00	1265.00
510040	4/0	259/.0286	5	20	888 lbs.	2070.00	1840.00	1733.00	1533.00

* NEW BRAIDLESS MOTOR LEAD WIRE STRANDED T/C 600V

CONSTRUCTION SPECIFICATIONS

PRICES PER 1000 FEET

Catalog No.	Size	Stranding	Insulation (64ths)	Shipping Weight	1,000 to 4,999 ft.	5,000 to 9,999 ft.	10,000 to 24,999 ft.	25,000 and over
510822	22	7/.010	2	8 lbs.	\$ 51.90	\$ 45.30	\$ 40.80	\$ 36.50
510820	20	10/.010	2	9 lbs.	57.20	51.60	47.10	42.20
510818	18	16/.010	2	10 lbs.	59.00	53.64	48.84	46.17
510816	16	26/.010	2	13 lbs.	75.33	68.48	62.26	57.19
510814	14	41/.010	2	18 lbs.	96.36	87.60	79.64	70.59
510812	12	65/.010	2	27 lbs.	113.26	102.96	93.61	83.32
510810	10	105/.010	3	48 lbs.	203.37	184.88	168.08	147.75
510808	8	133/.010	4	81 lbs.	325.29	295.72	268.84	233.65
510806	6	133/.0142	4	127 lbs.	439.80	399.85	363.50	317.30
510804	4	133/.0177	4	183 lbs.	638.00	515.00	484.50	428.45

TYPE SF-2 600V FIXTURE & APPLIANCE WIRE 200°C (392°F)

CONSTRUCTION SPECIFICATIONS

PRICES PER 1000 FEET

Catalog No.	Size	Stranding	Insulation (64ths)	Braid (Mils)	Shipping Wt. (lbs.)	Less than 500 ft.	500 to 19,999 ft.	20,000 to 49,999 ft.	50,000 ft. and over
510618	18	7/0152	2	9	15	\$ 66.60	\$ 59.20	\$ 55.70	\$ 49.30
510616	16	7/0192	2	9	20	84.00	74.60	70.30	62.30
510614	14	7/0242	2	9	27	104.00	92.30	86.90	76.90
510612	12*	19/0185	2	9	38	129.00	114.00	108.00	95.00
510610	10*	19/0234	3	9	62	262.00	233.00	220.00	194.00

TYPE SFF-2 600V FIXTURE & APPLIANCE WIRE 150°C (302°F)

CONSTRUCTION SPECIFICATIONS

PRICES PER 1000 FEET

Catalog No.	Size	Stranding	Insulation (64ths)	Braid (Mils)	Shipping Wt. (lbs.)	Less than 500 ft.	500 to 19,999 ft.	20,000 to 49,999 ft.	50,000 ft. and over
510722	22*	7/010	2	9	10	\$ 51.60	\$ 45.80	\$ 43.20	\$ 38.20
510720	20*	10/010	2	9	11	59.90	53.30	50.20	44.40
510718	18	16/010	2	9	15	68.70	61.10	57.50	50.90
510716	16	26/010	2	9	20	85.10	75.60	71.20	63.00
510714	14	41/010	2	9	27	106.00	93.40	87.90	77.80
510712	12*	65/010	2	9	38	125.00	111.00	104.00	91.90