

PLAINTIFF'S
EXHIBIT
E-176



ROCKBESTOS WIRE AND CABLE



RBB 01233

This is the Rockbestos Handbook and Catalog No. 10-G, which illustrates and describes wires, cables and flexible cords designed with Asbestos Varnished Cambric, and All Asbestos insulations for use where wiring in electrical products or in the power, control and lighting circuits of industry is exposed to heat, corrosive fumes, grease, oil or fire hazard.

Also contained in this catalog are Rockbestos special constructions developed for special and specific applications.

All data subject to change without notice.

ROCKBESTOS PRODUCTS CORPORATION

Main Office and Works

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CATALOG No. 10-G

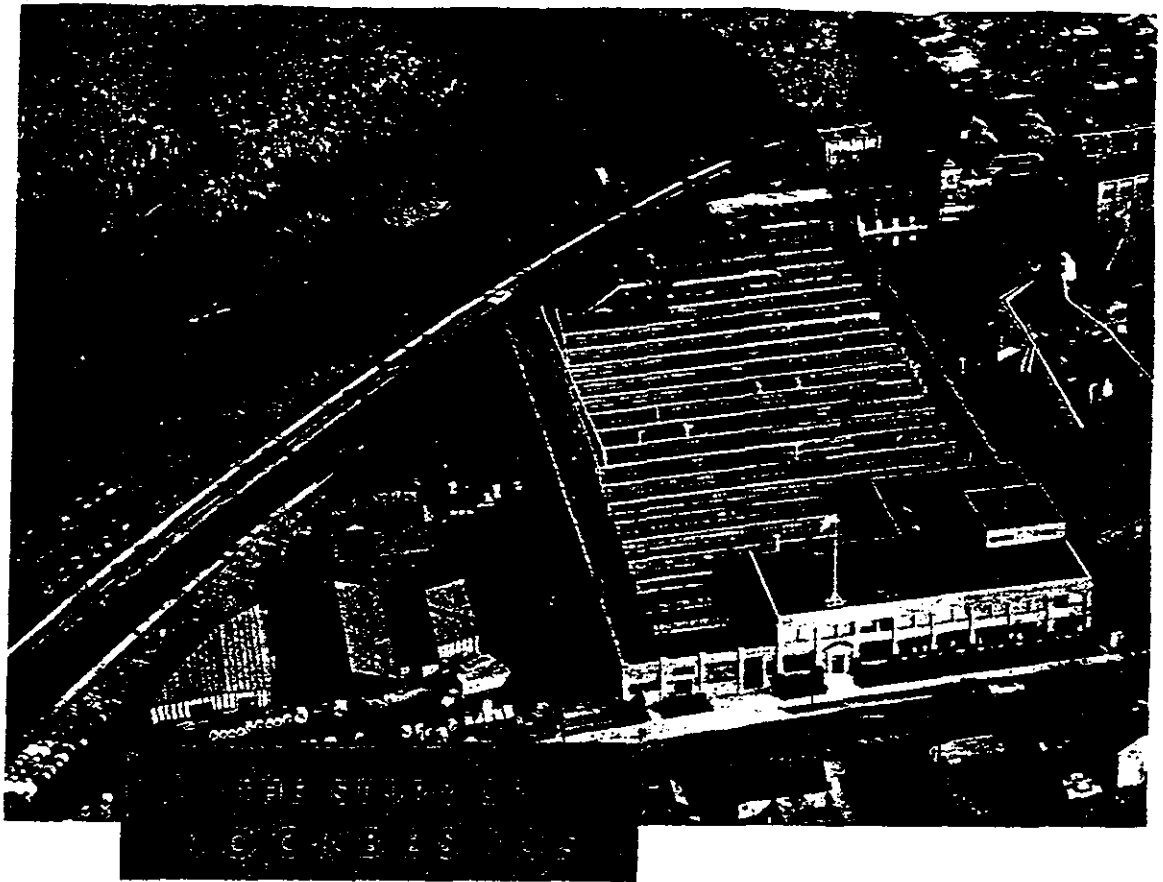
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ROCKBESTOS PRODUCTS CORPORATION

RBB 01234

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ROCKBESTOS is the name for a wide line of wires, cables and cords, including more than 125 different standard constructions, which have been designed and developed to give long and dependable service under severe operating conditions.

Early in 1918 a small group of Rockbestos Electrical Engineers and Chemists perfected a method of applying asbestos to wires and cables as a heat resisting electrical insulation. This first step resulted in the production of wire that industry and electrical engineers had been looking for. Here was an insulated conductor resistant to high temperatures, aging, corrosive fumes, grease, oil and flame. Success from the start—and just the beginning for this company which was later to distinguish itself to be the only company in industry devoted exclusively to the manufacture of permanently insulated wires and cables. Rockbestos grew along with the then rapidly growing electrical industry, solving its electrical insulation problems as they became

apparent with this unique mineral, ASBESTOS. Other materials are often combined resins with asbestos, i.e. Varnished cambric, Synthetics, DuPont "Teflon" Tetrafluoroethylene resin, cotton, rayon, nylon and glass, to provide special characteristics. Two broad lines of permanently insulated wires, cables and cords—Rockbestos A.V.C. asbestos-varnished cambric insulated (N.E.C. Types AVA and AVB) and Rockbestos ALL-Asbestos (N.E.C. Types A, AA, AI, AIA and AF)—have been developed for innumerable industrial applications.

Rockbestos engineering and research are constantly abreast of electrical problems in both science and industry, providing answers through the development of trouble-free, ageless electrical insulations designed for each specific application. May we offer you our research facilities for the development of special wires designed to meet any unusual requirements.

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ASBESTOS... OUR BASIC RAW MATERIAL

In entering upon a description of Rockbestos wires and cables, a brief outline of the characteristics of asbestos, the chief material used in their insulation, is a logical beginning.

Asbestos is a mineral, consequently inorganic in its nature, and in this principal feature different from all other types of material in use for insulating wires and cables. Asbestos fibres are solid, that is to say they have no capillary opening through their center like cotton, wool or other organic fibres. Because of this fact, there is no tendency for individual asbestos fibres to act as capillaries if their ends are exposed, and it only becomes necessary to fill the voids of interstices between the fibres to produce a relatively impervious layer.

Asbestos has demonstrated its ability to withstand time without the deterioration that occurs in other forms of electrical insulating materials such as rubber and the general class of organic fibres. Furthermore, it will not rot or carbonize under any conditions. It may be fairly stated indeed that asbestos is ageless, and time, as every engineer well knows, is a much more exacting test of a material than almost any laboratory accelerated life test which can be made. During the centuries since the asbestos was formed, it has been exposed to high earth temperatures and, as earth cooled, to moisture and the wide variety of earth acids and alkalis, all with no apparent change in any of its properties.

We have investigated the world's sources of asbestos to find and secure the softest, silkiest, purest, long fibred asbestos... and we find it in certain deposits of Chrysotile (Serpentine Group)—the aristocrat of the asbestos family.

Chrysotile is a hydrated magnesium silicate which occurs in crystalline form in veins or striations in the mother rock and is widely distributed. Each crystal is a "fibre", square in cross section, having a diameter of about 1/500,000 inch and a length equal to the width of the vein. There are a number of sources of Chrysotile fibre, the principal ones being Rhodesia, Canada, Russia, Arizona and Australia. The largest deposits are in Rhodesia and Canada.

Asbestos retains its strength and fibrous form under all conditions except extremely high temperatures. Chrysotile asbestos in crude (unopened form) begins to lose some of its water crystallization at about +50°C and is almost completely dehydrated at 850°C. It fuses at about 1500°C. When applied to wires or cables in felted form, its low heat conductivity enables it to withstand melting the copper conductor by passage of high currents without material loss of its mechanical strength. Tests of fabrics woven of Chrysotile asbestos show that after three hours at 500°C they still have their original tensile strength. Asbestos, after it is mined, is broken up, fiberized and cleaned. It is then combed and carded into soft, fluffy roving.

In this form it is applied to the conductor, impregnated with neutral insulating compounds, and compressed into the felted wall which is Rockbestos insulation that is not only fireproof but practically impervious to the destruction normally caused by heat and moisture, oil, grease, corrosive fumes or age.

What a material to use where endurance and resistance to deterioration are so important!



Hard as a rock in the vein, asbestos is soft as silk when fiberized. Each silky fiber is a crystal 1/500,000th of an inch in diameter.



A million-year-old handful! This asbestos has been completely fiberized and prepared and is now ready to be carded into roving.

WHY ROCKBESTOS A.V.C. WAS DEVELOPED

Since the early days of electrified industry, there has been a definite need for an electrical conductor insulation which would operate dependably in elevated ambient temperatures. High ambient temperatures were a problem then as they are today, and the performance of ordinary wires and cables at that time was restricted by the very nature of the materials used. Rubber, for instance, while known to be high in moisture resistance, was affected by high temperatures which caused it to become dry and porous limiting its length of effective service. The life of straight varnished cambric insulations too was seriously affected by high ambient temperatures which tended to cause deterioration of the tapes. Early asbestos insulations proved unsatisfactory because they consisted only of a series of asbestos braids filled with paint or other compound.

Recognizing that high temperatures and moisture were the major threats to the life of insulations, Rockbestos Engineers designed and developed their A.V.C. construction. This A.V.C. construction used as a basis dense felted walls of thoroughly impregnated asbestos to form a continuous insulation which would permanently resist heat, flame and moisture. High dielectric varnished cambric tapes were added as an insert between the felted asbestos to give added dielectric strength and moisture resistance. In this combination the felted asbestos also provided protection for the Varnished Cambric tapes against mechanical damage, deterioration from oxidation and prevents the formation of a continuous carbon path from conductor to ground. This basic construction was covered overall with either impregnated asbestos or flameproof cotton braids. This new Rockbestos A.V.C. construction was designed primarily to safely and dependably carry electrical loads in high ambient locations and to withstand additional operating hazards such as attacks of chemicals, oils, grease and fumes. Here was an insulation designed to give a long life of dependable operation under severest conditions.

Since the introduction of Rockbestos A.V.C. wires and cables in 1927, many millions of feet have been installed throughout the world under normal and abnormal operating conditions. These installations have covered a wide range of high temperatures and moisture conditions in practically every known industry. Rockbestos Field Engineers have constantly checked many of these installations in various industries since 1927 to check field conditions against long time tests run by our Research Laboratory

to confirm the ability of Rockbestos A.V.C. to meet unusual service conditions. Because of their successful operation, these asbestos-varnished cambric wires and cables were included in the National Electrical Code in the 1937 Edition and designated as N.E.C. Types AVA, AVL and AVB. The trade name "A.V.C." as registered by Rockbestos and used commercially is synonymous with National Electrical Code Types AVA, AVL and AVB. That is, A.V.C. finished with asbestos braid is Type AVA, with lead sheath is Type AVL and with cotton braid is Type AVB.

THE HI-I STORY

Maximum current carrying capacities of insulated conductors are determined within practical limits by the maximum temperature the insulation will stand without undue deterioration.

The Code in rating this original Rockbestos A.V.C. construction permitted it a higher temperature limit than ordinary insulations because its impregnated felted asbestos walls safely resisted deterioration under high ambients and the heat from current loads. Chapter 10, Tables I and II, under "Allowable Current-Carrying Capacities at 30°C" list Rockbestos A.V.C. Type AVA construction with greater current carrying capacity size for size than for cables with ordinary insulations. The practical advantages of Rockbestos A.V.C. begin here. As ambient temperatures increase and correction factors are applied, A.V.C. is de-rated far less than ordinary constructions, all because of its insulation.

At 70°C, for instance, other types of insulations are de-rated as much as 65% while Rockbestos A.V.C. is de-rated only 29%. At ambient temperatures in excess of 85°C, a limiting point for other types of insulations, Rockbestos A.V.C. rated at 110°C continues to provide permanent protection for electrical circuits.

Plant layouts and expansion programs are given greater flexibility by installing Rockbestos A.V.C. because not only does it provide greater current carrying capacity for intermittent demands and future load growth in existing circuits, but the installation of heat generating equipment is not restricted by its nearness to vital electrical circuits. The fact that you can use a smaller sized cable to carry a given load can start a whole series of cumulative savings.

Smaller cable means smaller conduit and fittings. Easier, quicker installations, plus years of dependable performance, prove Rockbestos Hi-I A.V.C. . . . Your Best Buy.

ROCKBESTOS A.V.C. CONSTRUCTION

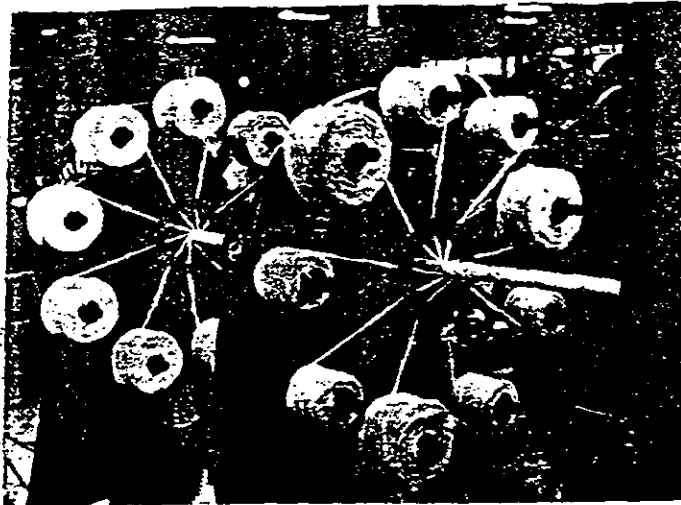


- (1) First impregnated felted asbestos wall.
- (2) Varnished cambric tapes.
- (3) Second impregnated felted asbestos wall.
- (4) Impregnated asbestos braid for Type AVA cables. (Flameproof cotton braid for Type AVB cables.) (Lead Sheath for Type AVL cables.)

HOW WE INSULATION . . .

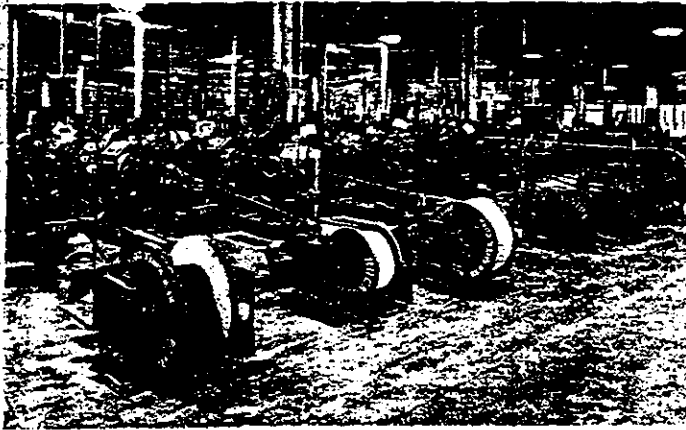
FELTED ASBESTOS WALLS

This close-up of a double insulator to the left shows the operation performed by the battery of insulating machines pictured below. Single or double heads, carrying the cheeses of fluffy asbestos roving, revolve around the conductor to apply a uniform wall of asbestos which is then impregnated and compressed to specified thicknesses. This dense wall, resistant to heat, flame, grease, oil and fumes, is the basis of the insulation of Rockbestos All-Asbestos and A.V.C. type wires and cables.



IMPREGNATING COMPOUNDS

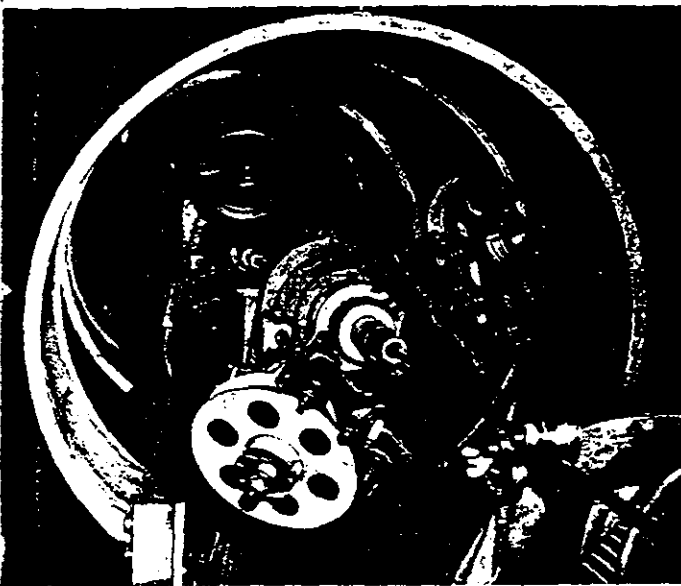
In general the felted asbestos insulating walls of all Rockbestos wires, cables and cords are impregnated with a chemically neutral, black insulating compound which is heat, moisture and flame resisting. Wherever identifying colors are required on wires having no outer braid, the insulation can be furnished in white, black or plain colors. In special cases where a wire will be exposed only to extremely high temperatures and no moisture, white compound may be used in the impregnation of the felted asbestos walls and for the finish of the braid. See page 45 Rockbestos Extra Flexible All-Asbestos Apparatus Cable.



HIGH DIELECTRIC TAPES

One of the large wrapping machines which applies varnished cambric or synthetic tapes to various types of Rockbestos A.V.C. cables. Rotating heads apply tapes selected to provide specified mil wall thicknesses, desired lap and length of lay required by the type of cable in process.

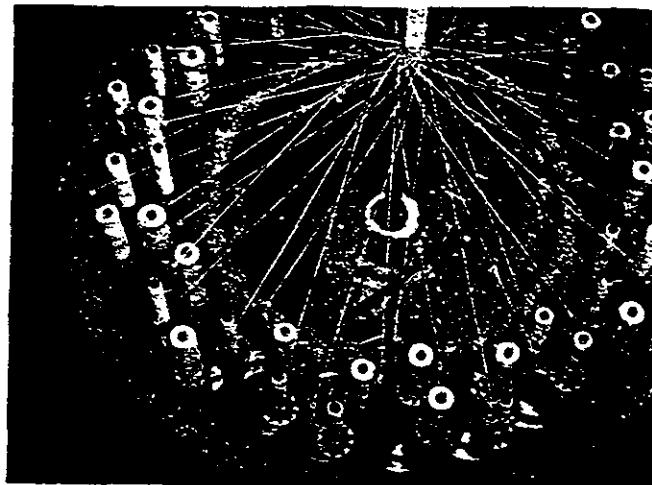
Varnished cambric tapes are being applied over the first felted asbestos wall of the Rockbestos A.V.C. Power Cable in the machine.



APPLY BRAIDS and FINISHES

ASBESTOS BRAIDS

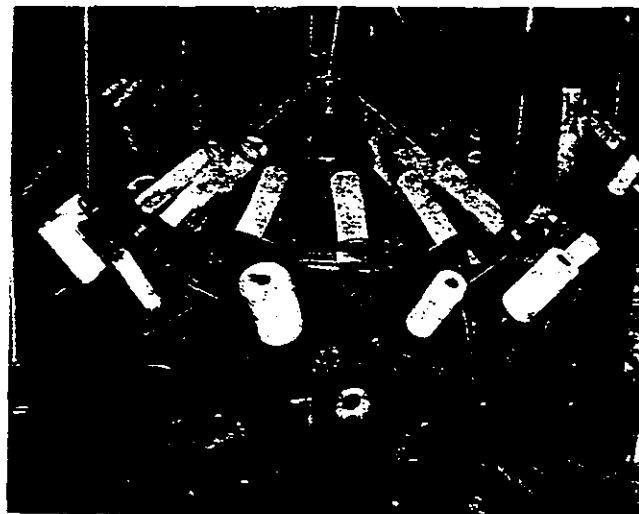
Standard Rockbestos A.V.C. Type AVA wires and cables are supplied with a black asbestos braid and Type AVB with flameproof gray cotton braid, but these wires and cables can be furnished with other braid materials and colors for other special applications. This picture to the right shows one of the big cable braiders. The carriers and their spools of asbestos yarn weave in and out in a may-pole dance to form the rugged heat and flame resistant outer braid. Cable diameters, yarn sizes and the number of ends and picks per inch must be taken into consideration to obtain proper coverage and allowance for flexing action in service.



COTTON BRAIDS

This close-up of a high speed braider is shown applying a braid of cotton to a Rockbestos A.V.C. Type AVB Switchboard Wire. The weaving action of this machine is accomplished by rotating two levels of carriers in opposite directions and diverting threads from the lower level alternately over and under the threads from the top level by a series of cams. Rockbestos finished cotton braids as used for outer coverings comply with the current requirements of ASA specifications for Cotton Braid for Insulated Wire and Cable for General Purposes—Code Braids (commonly known as NEMA Class B Braid).

Other materials such as rayon, glass, silk, etc. are also braided on this type of machine.

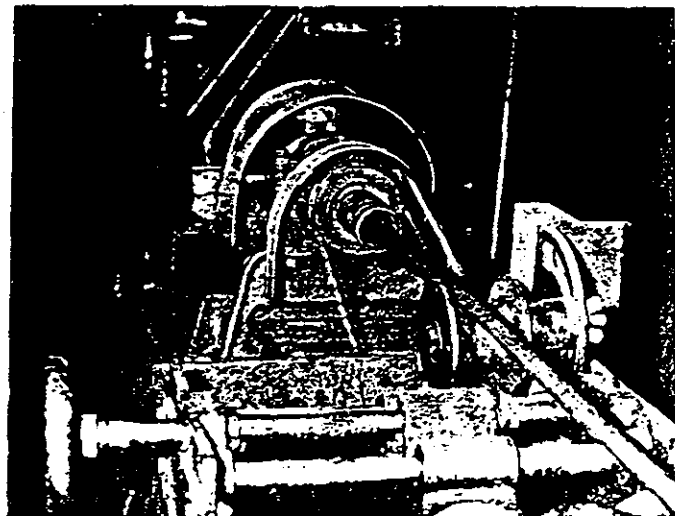


STANDARD AND SPECIAL FINISHES

ASBESTOS BRAIDS are finished with a suitable flame and heat resisting compound or saturated and finished with a flame, heat and moisture resisting compound, as specified.

COTTON BRAIDS are finished with a flame and heat resisting compound or saturated and finished with a flame, heat and moisture resisting compound, as specified.

On any of the standard wires shown in this catalog, special cotton twine, linen, glass or rayon braids can be substituted if necessary. Also a variety of special braid finishes such as lacquer, wax, asphalt or aluminum paint can be applied overall.





OTHER ROCKBESTOS OUTER COVERINGS

Any wire of our manufacture can be furnished with lead sheath, basket weave metal armor, interlocking steel or bronze armor or with almost any type of special covering needed for a specific application. These coverings when applied comply with current NEMA specifications for metallic coverings.

Metallic and synthetic sheathings may be used on Rockbestos A.V.C. Power and Control constructions in ratings ranging from 600 to 5000 volts.

Metallic Braid Coverings

The braiders weave coverings of wire just as well as those of cotton or asbestos yarn. This armor braider is weaving a protective basket weave metal braid over the synthetic sheath of the cable. Such metals as Aluminum, Steel and Bronze are used on these armor braiders to form heavy duty coverings for circuits requiring greatest mechanical strength and abrasion resistance. Electrical shields of tinned copper can also be applied when specified.

Interlocked Armor Coverings

Cables covered with either steel or bronze interlocked armor are not only protected from exposure to severe heat and moisture, but their use eliminates the need for conduit giving increased flexibility to wiring systems. The cable so protected can be run in troughs, up vertical risers or over and around obstructions.

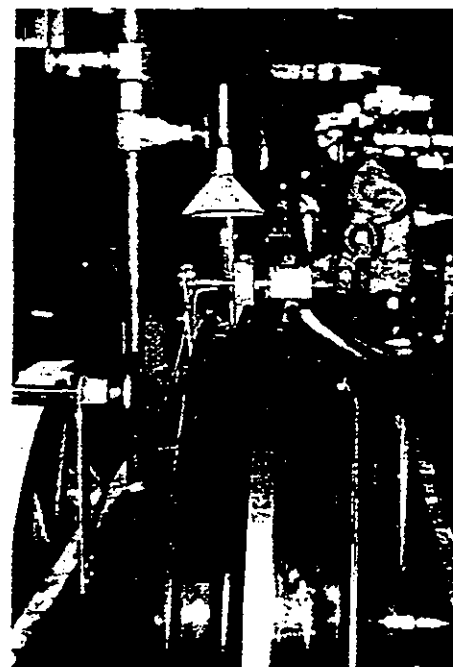
On orders for these types of special coverings, give complete specifications and state cutting lengths on order.



EXTRUDED LEAD and SYNTHETIC SHEATHS

Lead sheaths such as are required on Rockbestos A.V.C. Type AVL Power Cables are extruded by lead presses like the one pictured at the left. A pressure of approximately 1,000 tons per square inch is used to apply the lead sheaths to the cable. These moistureproof sheaths are used on Rockbestos standard Power, Control and Industrial Heating Cables.

The Tuber pictured to the right is extruding a thermoplastic synthetic sheath over a large asbestos insulated shipboard cable. Other tubers similarly sheathe or apply synthetic insulation to small wires and cables.



APPROVED USES FOR ROCKBESTOS CONSTRUCTIONS

Rockbestos Construction	NEC Type	Maximum Copper Operating Temp.	Insulation	Outer Covering	Special Provisions
Rockbestos A.V.C.	AVA	110°C (230°F)	Impregnated Asbestos and Varnished Cambric	Asbestos Braid	Dry locations only
	AVB	90°C (194°F)	Impregnated Asbestos and Varnished Cambric	Cotton Braid	Dry locations only
	AVL	110°C (230°F)	Impregnated Asbestos and Varnished Cambric	Lead Sheath	Wet locations
	TA	90°C (194°F)	Thermoplastic and Asbestos	Cotton Braid	Switchboard Wiring only
Rockbestos All-Asbestos	A	200°C (392°F)	Asbestos	Without asbestos braid	Dry locations only. Not for general use. In raceways, only for leads to or within apparatus. Limited to 300 V.
	AI	125°C (257°F)	Impregnated Asbestos	Without asbestos braid	Same as above
	AA	200°C (392°F)	Asbestos	With asbestos braid	Dry locations only. Open wiring. Not for general use. In raceways, only for leads to or within apparatus. Limited to 300 V.
	AIA	125°C (257°F)	Impregnated Asbestos	With asbestos braid	Same as above but for 600V Service
	AF	150°C (302°F)	Impregnated Asbestos	None	Fixture wiring. Limited to 300 V.

THE QUESTION OF MOISTURE

Article 310, Chapter III, of the National Electrical Code under the heading of "Conductors" states that the AVA and AVB type wires shall be used in dry locations only and the AVL type should be used in wet locations. In clarification of these limitations, Article 100 in Chapter I defines a dry location as being one not normally subject to dampness or wetness—and goes on to say that a location classified as dry may be temporarily subject to dampness or wetness as in the case of a building under construction. Under this regulation AVA and AVB types can be used where occasional moisture is present, for example moisture which is usually the result of condensation.

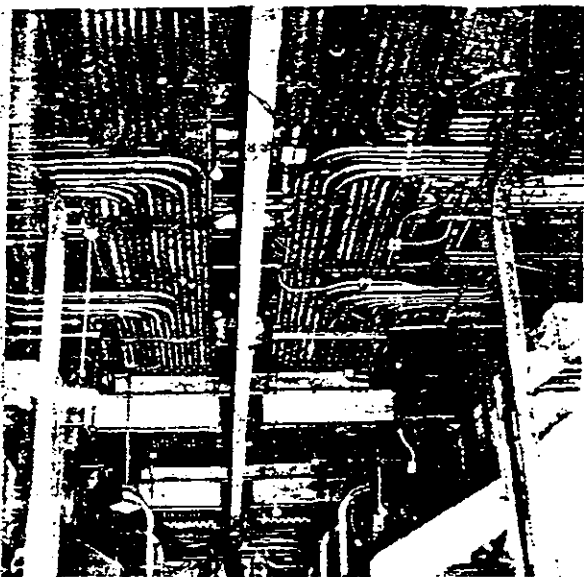
This is as it should be! Heat and moisture in conduit applications cannot be dissociated. Where heat is present for any period of time, a moisture condition sooner or later will appear. Usually the condition occurs during periodic shut-downs, as in the case of weekend holidays, where sudden changes in conduit temperatures from hot to cold result in condensation. Again condensation can and does occur where a sufficient temperature differential exists along the conduit. A case in point would be a single conduit run from a high temperature furnace area to a cold outside wall. A certain amount of air circulation exists within the conduit, and moisture is precipitated at the colder end—a condition iden-

tical with precipitation on cold water pipes in basements during a humid summer day.

Rockbestos A.V.C. (N.E.C. Type AVA) was designed to meet these conditions as it is constructed of asbestos, thoroughly impregnated with heat, flame and moisture resistant compounds, together with high dielectric varnished cambric tapes.

Since the inception of this design, Rockbestos Research has been running continuous laboratory projects simulating actual field service conditions on various A.V.C. constructions. A.V.C. constructions installed in conduit were subjected to steam, heat, a combination of heat and water—even complete submersion for extended periods to simulate emergency conditions. The results proved conclusively that Rockbestos A.V.C. has not only a built in factor of safety against "moisture" as defined by the National Electrical Code but substantial ability to withstand extreme conditions encountered in conduit applications as well.

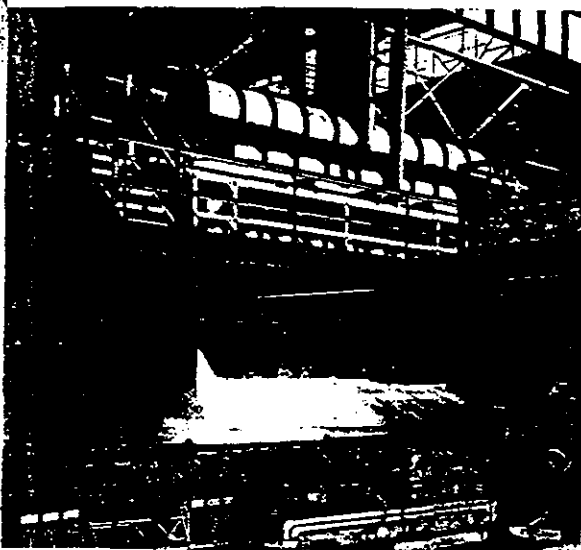
Since then millions of feet of Rockbestos A.V.C. have been used successfully in industry to further prove its dependable operation. Where a portion of a circuit in conduit is subjected to heat and another portion subjected to water, as in the case of steel mill furnace control circuits running partially through under-slab duct systems, AVL is recommended.



TYPICAL APPLICATIONS FOR POWER, WHERE SUBJECTED TO

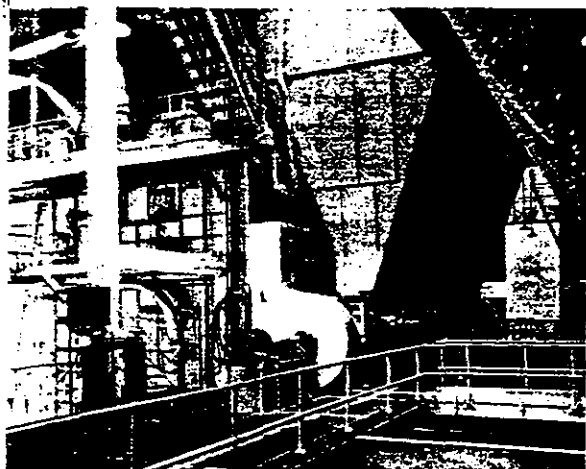
POWER CIRCUITS UP TO 5000 VOLT SERVICE

Standard Rockbestos A.V.C. (Code Type AVA) Power Cables are available in voltage ratings of 600 to 5000 volts. They are designed to protect circuits that must operate without failure under continuous exposure to high temperatures and other severe operating conditions. Copper shielding can be provided where required. They are available in single or multi-conductor constructions with either lead sheaths or asbestos braids. Interlocking armor can be furnished to special order. Rockbestos A.V.C. (Code Type AVA) Power Cable constructions are approved by the National Electrical Code, listed by the Underwriters' Laboratories and conform to NEMA standards.



CONDUIT WIRING AROUND FURNACES, OVENS, SOAKING PITS, BOILERS, ETC.

Rockbestos A.V.C. Power Cables and Lighting Wires can be run in conduit as they are built to withstand the normal moisture conditions resulting from condensation caused by heating and cooling cycles. In cases where power and lighting circuits are exposed to high temperatures in combination with excessive condensation or complete submersion, use lead sheathed Code Type AVL.



LIGHTING AND POWER CIRCUITS

Rockbestos Hi-I A.V.C. (Code Type AVA) Lighting and Power Cables are high temperature cables. This A.V.C. construction—two layers of impregnated felted asbestos encasing the varnished cambric—permits continuous operation at copper temperatures of 230°F (110°C), thus making Hi-I cables ideal for high ambient "Hot Spot" locations or, in normal ambient installations, permitting the use of smaller cables with consequent savings of copper, conduit, fittings and man-hours of labor as compared with cables having ordinary insulation.

LIGHTING and CONTROL CIRCUITS HIGH TEMPERATURES

RHEOSTAT AND APPARATUS WIRING

Rockbestos All-Asbestos Rheostat Wires and Cables were designed primarily for open wiring. Operating temperatures of 125°C for 600 volt ratings and 200°C for 300 volt applications can be safely met as constant elevated temperatures will not cause the compounds to fall away or flake off even through repeated heating and cooling cycles.

It is especially recommended for grid jumper connections from grids to faceplates, ovens and element leads on well type annealing furnaces and open wiring exposed to extremely high temperatures, corrosive fumes, grease, oil or fire hazard.

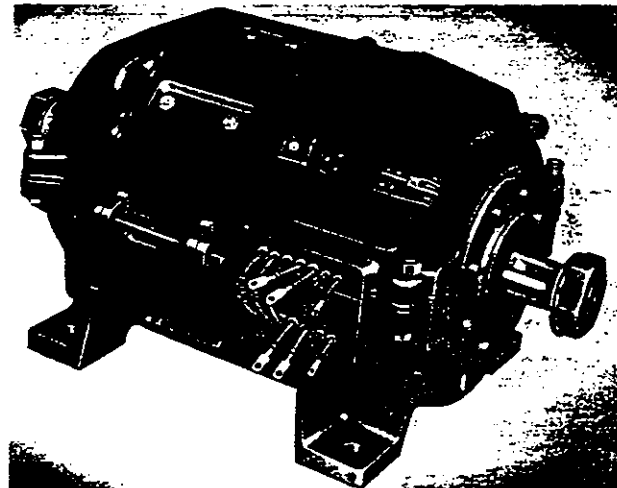
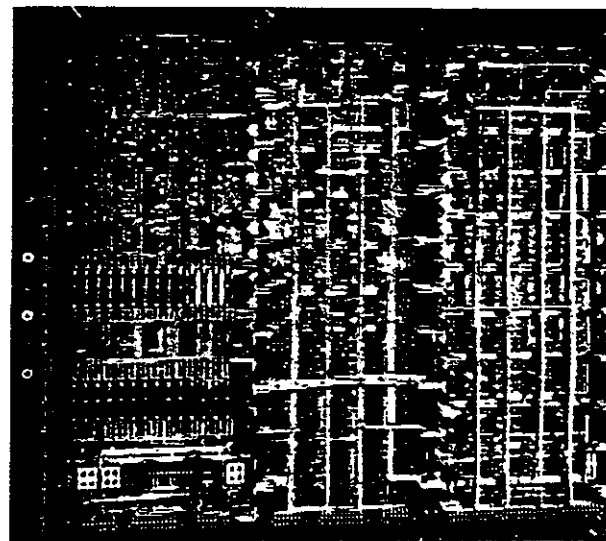
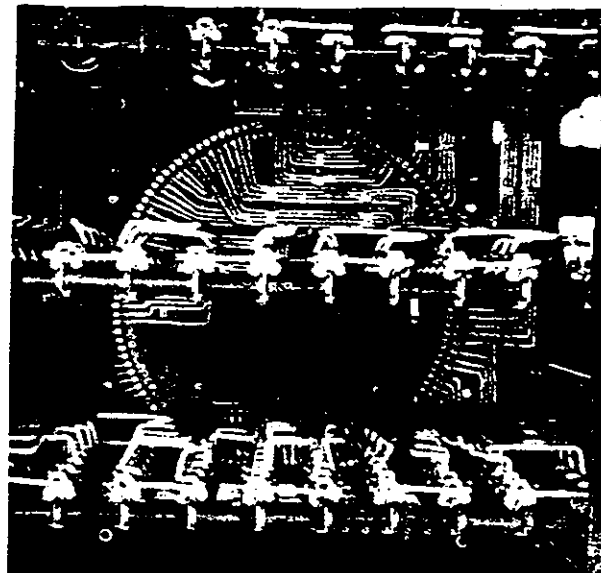
SWITCHBOARDS AND PANEL BOARDS

Millions of feet of Rockbestos fireproof A.V.C. (N.E.C. Type AVB) Switchboard Wire have been used by switchboard manufacturers, power stations and industrial plants since we originated and patented the A.V.C. type. Fine appearance is assured completed boards because it can be bent at right angles without cracking the braid.

Rockbestos A.V.C. Switchboard Wires have a maximum operating temperature of 90°C (194°F) and are listed by the Underwriters' Laboratories. They comply with the NEMA Small Wiring for Switchboards Standard and are approved by Factory Mutual Laboratories, switchboard manufacturers and power companies. See Page 42 for Rockbestos synthetic and asbestos insulated switchboard wires, N.E.C. Type TA constructions.

MOTOR LEADS

Mill motors and other heavy duty stationary and traction types use Rockbestos A.V.C. Motor Lead and Apparatus Cable for protection against conductor-heating overloads and high ambient temperatures. This cable retains its flexibility indefinitely because it won't dry out with heat or age, won't rot or bloom from contact with oil or grease and won't burn or carry flame. These performance-protecting characteristics make it ideal for motor wiring in steel mills, generating stations, all types of coal mining equipment, industrial plants—and numerous electrical apparatus applications.



NEW TYPE CONNECTORS

A FEW SPECIFIC USES FOR ROCKBESTOS A.V.C.

Applications	Standard A.V.C. Constructions by Table Letters
CENTRAL STATIONS All Lighting and Fixture Wiring (Internal) Boiler Room Control Circuits Auxiliary Power Wiring 600-5000 Volts Wiring to and Leads to Stoker Motors All Switchboards and Control Panels Hinge Connections on Cabinet Type Panels	Tables C, E, CV and CVC Tables C, E, MD-MT Multi-conductor control cable, MDL-MTL—Lead sheathed Multi-conductor control cable Tables E, EM, F, G, 4-H and H—Single Conductor Tables EC, EMC, FC, GC, 4-HC and HC—Three Conductor Tables EL, EML, FL, GL, 4-HL and HL—Single Conductor—Lead sheath—For extreme moisture or complete submersion Tables ECL, EMCL, FCL, GCL, 4-HCL and HCL—Three Conductor—Lead sheath—For extreme moisture or complete submersion Tables E and L Tables B and BS (Tables XB and XBS—Type TA) Table BH (Table XBH—Type TA)
STEEL MILLS, FOUNDRIES, AND FORGE SHOPS Wiring around Soaking Pits Wiring around Open Hearth and Annealing Furnaces Motor Leads Power Wiring Wiring of Mud Guns Lighting Circuits High Intensity Fixtures Other Lighting Fixtures Crane Wiring Control Circuits	Table E Table E Table L Tables E, EM, F, G, 4-H and H—Single Conductor Tables EC, EMC, FC, GC, 4-HC and HC—Three Conductor Tables EL, EML, FL, GL, 4-HL and HL—Single Conductor—Lead sheath—For extreme moisture or complete submersion Tables ECL, EMCL, FCL, GCL, 4-HCL and HCL—Three Conductor—Lead sheath—For extreme moisture or complete submersion Tables E and L Tables C and E Tables CV and CVC, Table EMA—1000 volt lead wire Tables C, CV and CVC Table E Tables C, E or MD-MT Multi-conductor control cable, MDL-MTL—Lead sheathed Multi-conductor control cable
INDUSTRIAL PLANT CONSTRUCTION AND MAINTENANCE Boiler Room Lighting and Control Circuits Power Wiring 600-5000 volts Lighting Circuits Crane Wiring Transformers Infra-red Ovens Around Heat Treat Furnaces Motor Leads Process Control Wiring	Tables C, E or MD-MT Multi-conductor control cable Tables E, EM, F, G, 4-H and H—Single Conductor Tables EC, EMC, FC, GC, 4-HC and HC—Three Conductor Tables EL, EML, FL, GL, 4-HL and HL—Single Conductor—Lead sheath—For extreme moisture or complete submersion Tables ECL, EMCL, FCL, GCL, 4-HCL and HCL—Three Conductor—Lead sheath—For extreme moisture or complete submersion Tables C and E Table E Table L Tables B, BS and C Tables C and E Table L Tables C, E or MD-MT Multi-conductor control cable
REWIRING BOTH COMMERCIAL AND INDUSTRIAL BUILDINGS FOR INCREASED CAPACITY IN EXISTING CONDUIT Power Wiring 600-5000 volts Lighting Fixtures and Pendant Lighting	Tables E, EM, F, G, 4-H and H—Single Conductor Tables EC, EMC, FC, GC, 4-HC and HC—Three Conductor Tables EL, EML, FL, GL, 4-HL and HL—Single Conductor—Lead sheath—For extreme moisture or complete submersion Tables ECL, EMCL, FCL, GCL, 4-HCL and HCL—Three Conductor—Lead sheath—For extreme moisture or complete submersion Tables C, CV and CVC
COAL MINES Internal Wiring of Locomotives, Coal Cutters, and Loaders Internal Leads of Electric Drills Hoist Wiring	Tables C and ML Table L Table E
MANUFACTURERS OF ELECTRICAL MACHINERY AND EQUIPMENT Crane and Hoist Wiring Induction Heaters Generators Fans Pumps Grinding Mills Traction and Mill Motors Industrial Furnaces and Ovens Switchboards and Control Panels Radio and Television Transmitters Coal Mining Equipment Transformers	Tables E and L Table E Table E Table E Table E Table E Table L Tables C and E Tables B, BS and BH (Tables XB, XBS and XBH—Type TA) Tables B and BS Tables C, ML and Special A.V.C. Control Cables Tables L, B, BS and BH (Tables XB, XBS and XBH—Type TA)

**ROCKBESTOS A.V.C.
LIGHTING WIRE
NEC TYPE AVA—ROCKBESTOS A.V.C.
600 VOLT SOLID CONDUCTOR**

MAXIMUM OPERATING TEMP. 110°C (230°F)

Sizes 18-8



Sizes 6-4/0



APPLICATIONS

This wire is recommended for lighting and control circuits in boiler rooms, steel mills, steam tunnels, power, chemical and food processing plants. Also around furnaces, ovens, glass lehrs, forging presses, tenter frames, soaking pits—and in locomotives, resistors, cranes, steam tables, etc. for circuits exposed to heat.

You can safely use this lighting wire either open wired or in conduit, ducts or raceways which are exposed to heat and moisture, corrosive fumes, grease, oil or fire hazard. It is also used in electrical apparatus for panel and control wiring to insure performance under severe operating conditions. This construction permits continuous operation under temperatures ranging up to a maximum of 230°F.

It has ample moisture resistance for average conditions, but if there is a possibility that circuits may be submerged for long periods use Table CL, Rockbestos A.V.C. (N.E.C. Type AVL) 600 volt lead sheathed lighting wire on page 26.

SPECIFICATION

Construction—Sizes 6-4/0

1. Solid Plain Copper Conductor
2. Felted Asbestos
3. Varnished Cambric
4. Felted Asbestos
5. Asbestos Braid

National Electrical Code Type AVA—listed by Underwriters' Laboratories, maximum conductor operating temperature 110°C (230°F).

Construction—Sizes 18-8

1. Solid Plain Copper Conductor
3. Varnished Cambric
4. Felted Asbestos
5. Asbestos Braid

National Electrical Code Type AVA—listed by Underwriters' Laboratories, maximum conductor operating temperature 110°C (230°F).

Standard finish colors: Black, white, red, blue and gray.
Authorized stock items: Black, (white also in sizes. Nos. 10, 12 and 14.)

TABLE C

600 VOLTS

TYPE AVA

Size	Bare Diam. Inches	Nominal Thickness — Mils				*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
		1st Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid				
**18 AWG	.040		30	20	40	.220	28	500' C	35
**16	.051		30	20	40	.235	33	500' C	41
14	.064		30	20	40	.245	40	500' C	50
12	.081		30	20	40	.265	50	500' C	62
10	.102		30	20	40	.285	65	500' C	81
8	.128		30	20	40	.310	89	500' C	111
6	.162	15	30	20	45	.385	135	500' R	168
5	.182	15	30	20	45	.405	160	500' R	200
4	.204	15	30	20	45	.425	190	500' R	237
3	.229	15	30	20	45	.450	230	500' R	287
2	.258	15	30	20	45	.480	275	500' R	343
1	.289	20	30	30	45	.540	350	500' R	437
0	.325	20	30	30	45	.575	430	500' R	537
00	.365	20	30	30	45	.615	525	500' R	656
000	.410	20	50	30	45	.660	640	500' R	800
0000	.460	20	50	30	45	.710	785	500' R	981

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. †C—Coils, R—Reels
**Not listed in National Electrical Code.

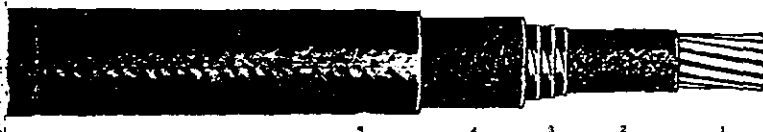
THE ROCKBESTOS LIGHTING WIRE CORPORATION



POWER CABLE

NEC TYPE AVA—ROCKBESTOS A.V.C.

600 TO 5,000 VOLT RATINGS



SINGLE CONDUCTOR—STRANDED

APPLICATIONS

Rockbestos A.V.C. (N.E.C. Type AVA) Power Cables are designed to operate at voltages from 600 to 5000 volts. They are especially recommended for circuits exposed to severe operating conditions in power stations, steel mills, refineries, tanneries, smelters, etc. and for apparatus which operates under high ambient temperatures.

On the higher voltage rated cables, suitable copper shielding tapes may be specified to eliminate effects of corona on the primary dielectric—the varnished cambric. Voltage rating of all Rockbestos Hi-I A.V.C. Power Cables is maximum phase to phase voltage. This applies to either grounded or ungrounded systems.

The cables listed in this section have ample moisture resistance for average conditions, but if there is a possibility that circuits may be submerged in water for long periods, use lead sheathed constructions in the AVL section of this catalog. The wires and cables in this section are approved National Electrical Code Types, listed by the Underwriters' and fulfill the requirements of NEMA for Asbestos-Varnished Cambric wires and cables.

SPECIFICATIONS

Construction

1. Stranded plain copper conductor
2. Felted asbestos
3. Varnished cambric
4. Felted asbestos
5. Asbestos braid

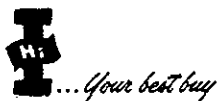
Maximum conductor operating temperatures are as follows:

600 Volt	110°C	(230°F)
1000 Volt	110°C	(230°F)
2000 Volt	109°C	(228°F)
3000 Volt	106°C	(222°F)
4000 Volt	103°C	(217°F)
5000 Volt	100°C	(212°F)

Standard finish colors: Black, white, red, blue and gray. Authorized Stock item: (600 volt-Table E only) Black.

Flexible strandings may be specified on all constructions up to 5000 volts.

All constructions listed can be covered with lead sheath, armor, or lead sheath and armor, if desired. Interlocking armor can be furnished to special order.



ROCKBESTOS A.V.C. **SINGLE CONDUCTOR POWER CABLE**

TABLE E, 600 VOLTS

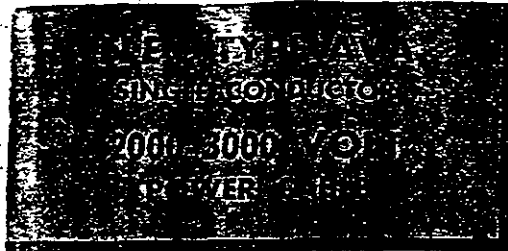
MAX. OPERATING TEMP.
110°C (230°F)

TABLE EM, 1000 VOLTS

MAX. OPERATING TEMP.
110°C (230°F)

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils				*Nominal Finished Diameter Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid				
TABLE E			600 VOLTS				TYPE AVA			
**18 AWG	-	.0152	10	30	15	40	.235	30	500' C	5"
**16	-	.0192	10	30	15	40	.250	35	500' C	4"
14	-	.0242	10	30	15	40	.265	45	500' C	36
12	-	.0305	10	30	15	40	.285	55	500' C	68
10	-	.0385	10	30	15	40	.310	70	500' C	8"
8	-	.0486	10	30	15	45	.350	95	500' C	118
6	-	.0612	15	30	20	45	.405	140	500' R	174
5	-	.0688	15	30	20	45	.430	165	500' R	206
4	-	.0772	15	30	20	45	.455	200	500' R	250
3	-	.0867	15	30	20	45	.480	240	500' R	300
2	-	.0974	15	30	20	45	.515	285	500' R	356
1	-	.10664	20	30	30	45	.585	370	500' R	462
0	19/.0745	.373	20	30	30	45	.625	450	500' R	562
00	19/.0837	.419	20	30	30	45	.670	545	500' R	681
000	19/.0940	.470	20	30	30	45	.720	665	500' R	831
0000	19/.1055	.528	20	30	30	45	.780	815	500' R	1018
250,000 CM	37/.0822	.575	25	40	40	45	.875	985	500' R	1231
300,000	37/.0900	.630	25	40	40	45	.930	1155	500' R	1443
350,000	37/.0975	.681	25	40	40	45	.985	1325	500' R	1656
400,000	37/.1040	.728	25	40	40	45	1.030	1490	500' R	1862
450,000	37/.1103	.772	25	40	40	45	1.075	1660	500' R	2075
500,000	37/.1162	.813	25	40	40	45	1.115	1825	500' R	2281
550,000	61/.0950	.855	30	40	40	45	1.165	2005	500' R	2506
600,000	61/.0992	.893	30	40	40	45	1.205	2175	500' R	2718
650,000	61/.1032	.929	30	40	40	45	1.240	2340	500' R	2925
700,000	61/.1071	.964	30	40	40	45	1.275	2505	500' R	3131
750,000	61/.1109	.998	30	40	40	45	1.310	2675	500' R	3345
800,000	61/.1145	1.031	30	40	40	45	1.345	2835	500' R	3545
850,000	61/.1180	1.062	30	40	40	45	1.375	3000	500' R	3750
900,000	61/.1215	1.093	30	40	40	45	1.405	3165	500' R	3956
950,000	61/.1248	1.123	30	40	40	45	1.435	3330	500' R	4162
1,000,000	61/.1280	1.152	30	40	40	45	1.465	3490	500' R	4362
1,250,000	91/.1172	1.289	30	50	50	45	1.640	4375	500' R	5468
1,500,000	91/.1284	1.412	30	50	50	45	1.765	5155	500' R	6443
1,750,000	127/.1174	1.526	30	50	50	45	1.880	6030	500' R	7537
2,000,000	127/.1255	1.632	30	50	50	45	1.985	6760	500' R	8450
TABLE EM			1000 VOLTS				TYPE AVA			
14 AWG	-	.0242	15	45	25	40	.325	60	500' C	75
12	-	.0305	15	45	25	45	.355	70	500' C	87
10	-	.0385	15	45	25	45	.380	90	500' C	112
8	-	.0486	15	45	25	45	.410	115	500' C	143
6	-	.0612	15	45	25	45	.445	155	500' R	193
5	-	.0688	15	45	25	45	.470	180	500' R	225
4	-	.0772	15	45	25	45	.495	215	500' R	268
3	-	.0867	15	45	25	45	.520	255	500' R	318
2	-	.0974	15	45	25	45	.555	305	500' R	381
1	-	.10664	20	45	30	45	.615	380	500' R	475
0	19/.0745	.373	20	45	30	45	.655	465	500' R	581
00	19/.0837	.419	20	45	30	45	.700	560	500' R	700
000	19/.0940	.470	20	45	30	45	.750	685	500' R	856
0000	19/.1055	.528	20	45	30	45	.810	830	500' R	1037
250,000 CM	37/.0822	.575	25	45	40	45	.885	995	500' R	1243
300,000	37/.0900	.630	25	45	40	45	.940	1160	500' R	1450
350,000	37/.0975	.681	25	45	40	45	.995	1330	500' R	1662
400,000	37/.1040	.728	25	45	40	45	1.040	1500	500' R	1875
450,000	37/.1103	.772	25	45	40	45	1.085	1670	500' R	2087
500,000	37/.1162	.813	25	45	40	45	1.125	1835	500' R	2293
550,000	61/.0950	.855	30	45	40	45	1.175	2015	500' R	2518
600,000	61/.0992	.893	30	45	40	45	1.215	2185	500' R	2731
650,000	61/.1032	.929	30	45	40	45	1.250	2350	500' R	2937
700,000	61/.1071	.964	30	45	40	45	1.285	2515	500' R	3143
750,000	61/.1109	.998	30	45	40	45	1.320	2680	500' R	3350
800,000	61/.1145	1.031	30	45	40	45	1.355	2845	500' R	3556
850,000	61/.1180	1.062	30	45	40	45	1.385	3000	500' R	3750
900,000	61/.1215	1.093	30	45	40	45	1.415	3175	500' R	3968
950,000	61/.1248	1.123	30	45	40	45	1.445	3340	500' R	4175
1,000,000	61/.1280	1.152	30	45	40	45	1.475	3500	500' R	4375

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. *C—Coils, R—Reels
 **Not listed in National Electrical Code.



ROCKBESTOS A.V.C.

SINGLE CONDUCTOR POWER CABLE

TABLE F, 2000 VOLTS

TABLE G, 3000 VOLTS

MAX. OPERATING TEMP.

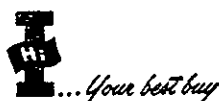
MAX. OPERATING TEMP.

109°C (228°F)

106°C (222°F)

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mills				*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid				
TABLE F			2000 VOLTS				TYPE AVA			
14 AWG	7/.0242	.073	15	60	25	45	.363	70	500' C	87
12	7/.0305	.092	15	50	25	45	.385	80	500' C	100
10	7/.0385	.116	15	60	25	45	.410	100	500' R	125
8	7/.0486	.146	15	60	25	45	.440	125	500' R	156
6	7/.0612	.184	15	60	25	45	.475	165	500' R	206
5	7/.0688	.206	15	60	25	45	.500	195	500' R	243
4	7/.0772	.232	15	60	25	45	.525	230	500' R	287
3	7/.0867	.260	15	60	25	45	.550	275	500' R	343
2	7/.0974	.292	15	60	25	45	.585	325	500' R	406
1	19/.0664	.332	20	60	30	45	.645	400	500' R	500
0	19/.0745	.373	20	60	30	45	.685	485	500' R	606
00	19/.0837	.419	20	60	30	45	.730	580	500' R	725
000	19/.0940	.470	20	60	30	45	.780	705	500' R	881
0000	19/.1055	.528	20	60	30	45	.840	855	500' R	1068
250,000 CM	37/.0822	.575	25	60	40	45	.915	1015	500' R	1268
300,000	37/.0900	.630	25	60	40	45	.970	1190	500' R	1487
350,000	37/.0973	.681	25	60	40	45	1.025	1355	500' R	1695
400,000	37/.1040	.728	25	60	40	45	1.070	1525	500' R	1906
450,000	37/.1103	.772	25	60	40	45	1.115	1690	500' R	2112
500,000	37/.1162	.813	25	60	40	45	1.155	1870	500' R	2337
550,000	61/.0950	.855	30	60	40	45	1.205	2040	500' R	2550
600,000	61/.0992	.893	30	60	40	45	1.245	2215	500' R	2768
650,000	61/.1032	.929	30	60	40	45	1.280	2380	500' R	2975
700,000	61/.1071	.964	30	60	40	45	1.315	2550	500' R	3187
750,000	61/.1109	.998	30	60	40	45	1.350	2720	500' R	3400
800,000	61/.1145	1.031	30	60	40	45	1.385	2890	500' R	3612
850,000	61/.1180	1.062	30	60	40	45	1.415	3055	500' R	3818
900,000	61/.1215	1.093	30	60	40	45	1.445	3210	500' R	4012
950,000	61/.1248	1.123	30	60	40	45	1.475	3375	500' R	4218
1,000,000	61/.1280	1.152	30	60	40	45	1.505	3540	500' R	4425
TABLE G			3000 VOLTS				TYPE AVA			
12 AWG	7/.0305	.092	15	80	25	45	.425	95	500' R	118
10	7/.0385	.116	15	80	25	45	.450	115	500' R	143
8	7/.0486	.146	15	80	25	45	.480	145	500' R	181
6	7/.0612	.184	15	80	25	45	.515	185	500' R	231
5	7/.0688	.206	15	80	25	45	.540	220	500' R	275
4	7/.0772	.232	15	80	25	45	.565	250	500' R	312
3	7/.0867	.260	15	80	25	45	.590	295	500' R	368
2	7/.0974	.292	15	80	25	45	.625	340	500' R	425
1	19/.0664	.332	20	80	30	45	.685	425	500' R	531
0	19/.0745	.373	20	80	30	45	.725	505	500' R	631
00	19/.0837	.419	20	80	30	45	.770	605	500' R	756
000	19/.0940	.470	20	80	30	45	.820	730	500' R	912
0000	19/.1055	.528	20	80	30	45	.880	885	500' R	1106
250,000 CM	37/.0822	.575	25	80	40	45	.955	1045	500' R	1306
300,000	37/.0900	.630	25	80	40	45	1.010	1220	500' R	1525
350,000	37/.0973	.681	25	80	40	45	1.065	1395	500' R	1743
400,000	37/.1040	.728	25	80	40	45	1.110	1565	500' R	1956
450,000	37/.1103	.772	25	80	40	45	1.155	1735	500' R	2168
500,000	37/.1162	.813	25	80	40	45	1.195	1905	500' R	2381
550,000	61/.0950	.855	30	80	40	45	1.245	2080	500' R	2600
600,000	61/.0992	.893	30	80	40	45	1.285	2260	500' R	2825
650,000	61/.1032	.929	30	80	40	45	1.320	2420	500' R	3025
700,000	61/.1071	.964	30	80	40	45	1.355	2590	500' R	3237
750,000	61/.1109	.998	30	80	40	45	1.390	2765	500' R	3456
800,000	61/.1145	1.031	30	80	40	45	1.425	3050	500' R	3812
850,000	61/.1180	1.062	30	80	40	45	1.455	3150	500' R	3937
900,000	61/.1215	1.093	30	80	40	45	1.485	3265	500' R	4081
950,000	61/.1248	1.123	30	80	40	45	1.515	3430	500' R	4287
1,000,000	61/.1280	1.152	30	80	40	45	1.545	3590	500' R	4487

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. *C—Coils, R—Reels



ROCKBESTOS A.V.C. **SINGLE CONDUCTOR POWER CABLE**

TABLE 4H, 4000 VOLTS

MAX. OPERATING TEMP.
103°C (217°F)

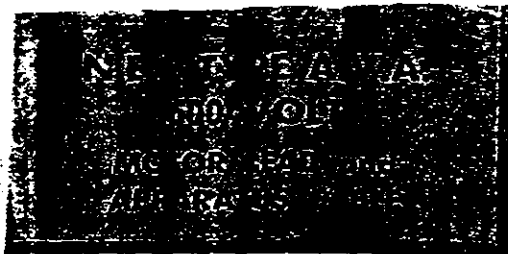
TABLE H, 5000 VOLTS

MAX. OPERATING TEMP.
100°C (212°F)

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils				*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid				
TABLE 4H			4000 VOLTS				TYPE AVA			
12 AWG	7/.0305	.092	15	100	25	45	.465	115	500' R	144
10	7/.0385	.116	15	100	25	45	.490	130	500' R	163
8	7/.0486	.146	15	100	25	45	.520	165	500' R	206
6	7/.0612	.184	15	100	25	45	.555	210	500' R	263
5	7/.0688	.206	15	100	25	45	.580	245	500' R	306
4	7/.0772	.232	15	100	25	45	.605	275	500' R	345
3	7/.0867	.260	15	100	25	45	.630	315	500' R	393
2	7/.0974	.292	15	100	25	45	.665	370	500' R	462
1	19/.0664	.332	20	100	30	45	.725	450	500' R	562
0	19/.0745	.373	20	100	30	45	.765	535	500' R	668
00	19/.0837	.419	20	100	30	45	.810	635	500' R	793
000	19/.0940	.470	20	100	30	45	.860	765	500' R	956
0000	19/.1055	.528	20	100	30	45	.920	920	500' R	1150
250,000 CM	37/.0822	.575	25	100	40	45	.995	1085	500' R	1356
300,000	37/.0900	.630	25	100	40	45	1.050	1265	500' R	1581
350,000	37/.0975	.681	25	100	40	45	1.105	1440	500' R	1800
400,000	37/.1040	.728	25	100	40	45	1.150	1615	500' R	2018
450,000	37/.1105	.772	25	100	40	45	1.195	1785	500' R	2231
500,000	37/.1162	.813	25	100	40	45	1.235	1955	500' R	2443
550,000	61/.0950	.855	30	100	40	45	1.285	2145	500' R	2681
600,000	61/.0992	.893	30	100	40	45	1.325	2315	500' R	2893
650,000	61/.1032	.929	30	100	40	45	1.360	2480	500' R	3100
700,000	61/.1071	.964	30	100	40	45	1.395	2650	500' R	3312
750,000	61/.1109	.998	30	100	40	45	1.430	2820	500' R	3525
800,000	61/.1145	1.031	30	100	40	45	1.465	2990	500' R	3755
850,000	61/.1180	1.062	30	100	40	45	1.495	3155	500' R	3943
900,000	61/.1215	1.093	30	100	40	45	1.525	3320	500' R	4150
950,000	61/.1248	1.123	30	100	40	45	1.555	3500	500' R	4375
1,000,000	61/.1280	1.152	30	100	40	45	1.585	3665	500' R	4581
TABLE H			5000 VOLTS				TYPE AVA			
10 AWG	7/.0385	.116	15	120	25	45	.530	150	500' R	187
8	7/.0486	.146	15	120	25	45	.560	190	500' R	237
6	7/.0612	.184	15	120	25	45	.595	230	500' R	287
5	7/.0688	.206	15	120	25	45	.620	260	500' R	325
4	7/.0772	.232	15	120	25	45	.645	295	500' R	368
3	7/.0867	.260	15	120	25	45	.670	345	500' R	431
2	7/.0974	.292	15	120	25	45	.705	395	500' R	493
1	19/.0664	.332	20	120	30	45	.765	490	500' R	612
0	19/.0745	.373	20	120	30	45	.805	555	500' R	693
00	19/.0837	.419	20	120	30	45	.850	670	500' R	837
000	19/.0940	.470	20	120	30	45	.900	795	500' R	993
0000	19/.1055	.528	20	120	30	45	.960	955	500' R	1193
250,000 CM	37/.0822	.575	25	120	40	45	1.035	1120	500' R	1400
300,000	37/.0900	.630	25	120	40	45	1.090	1300	500' R	1625
350,000	37/.0975	.681	25	120	40	45	1.145	1480	500' R	1850
400,000	37/.1040	.728	25	120	40	45	1.190	1660	500' R	2075
450,000	37/.1105	.772	25	120	40	45	1.235	1825	500' R	2281
500,000	37/.1162	.813	25	120	40	45	1.275	2010	500' R	2512
550,000	61/.0950	.855	30	120	40	45	1.325	2185	500' R	2731
600,000	61/.0992	.893	30	120	40	45	1.365	2360	500' R	2950
650,000	61/.1032	.929	30	120	40	45	1.400	2530	500' R	3162
700,000	61/.1071	.964	30	120	40	45	1.435	2700	500' R	3375
750,000	61/.1109	.998	30	120	40	45	1.470	2870	500' R	3587
800,000	61/.1145	1.031	30	120	40	45	1.505	3040	500' R	3800
850,000	61/.1180	1.062	30	120	40	45	1.535	3210	500' R	4012
900,000	61/.1215	1.093	30	120	40	45	1.565	3360	500' R	4200
950,000	61/.1248	1.123	30	120	40	45	1.595	3530	500' R	4412
1,000,000	61/.1280	1.152	30	120	40	45	1.625	3720	500' R	4650

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. R—Reels

NEWARK WEST COLLECTION



ROCKBESTOS A.V.C.
600 VOLT FLEXIBLE CONDUCTOR
MOTOR LEAD and APPARATUS CABLE
NEC TYPE AVA—ROCKBESTOS A.V.C.
MAXIMUM OPERATING TEMP. 110°C (230°F)



APPLICATION

This cable was designed and developed to meet the demand for greater resistance to conductor-heating overloads, high ambient temperatures, other destructive conditions and fire hazard. It is widely used in electrical apparatus for coil connections and motor leads on either AC or DC. Because of its A.V.C. construction it is ideal for wiring transformers, resistors, hoists, cranes, traction and mill motors which must function under exposure to heat and moisture, corrosive fumes, grease or oil.

SPECIFICATIONS

Construction

1. Flexible tinned copper conductor
2. Felted asbestos
3. Varnished cambric conductor
4. Felted asbestos
5. Asbestos braid

This cable is National Electrical Code Type AVA, maximum operating temperature 110°C (230°F) listed by the Underwriters' Laboratories.

Rockbestos Motor Lead and Apparatus Cable is available in voltage ratings up to 5000 volts and may be furnished with extra-flexible conductors.

Standard finish colors: Black, white, red, blue and gray.
Authorized stock items: Black.

TABLE L

600 VOLTS

TYPE AVA

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils				*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid				
**18 AWG	16/.010	.045	10	30	15	40	.235	30	500' C	56
**16	26/.010	.059	10	30	15	40	.250	35	500' C	41
14	41/.010	.075	10	30	15	40	.265	45	500' C	51
12	65/.010	.095	10	30	15	40	.285	55	500' C	61
10	104/.010	.120	10	30	15	40	.310	75	500' C	81
8	133/.0111	.167	10	30	15	45	.370	100	500' C	106
6	133/.0140	.210	15	30	20	45	.430	150	500' R	187
5	133/.0158	.237	15	30	20	45	.460	175	500' R	218
4	133/.0177	.266	15	30	20	45	.490	210	500' R	262
3	133/.0199	.299	15	30	20	45	.520	255	500' R	318
2	133/.0223	.335	15	30	20	45	.555	305	500' R	381
1	259/.0180	.378	20	30	30	45	.630	385	500' R	481
0	259/.0202	.424	20	30	30	45	.675	470	500' R	587
00	259/.0227	.477	20	30	30	45	.730	570	500' R	712
000	259/.0255	.536	20	30	30	45	.790	700	500' R	875
0000	259/.0286	.601	20	30	30	45	.855	850	500' R	1062
250,000 CM	427/.0242	.653	25	40	40	45	.955	1030	500' R	1287
300,000	427/.0265	.716	25	40	40	45	1.020	1205	500' R	1506
350,000	427/.0286	.772	25	40	40	45	1.075	1380	500' R	1725
400,000	427/.0306	.826	25	40	40	45	1.130	1555	500' R	1943
450,000	427/.0325	.878	25	40	40	45	1.180	1740	500' R	2175
500,000	427/.0342	.923	25	40	40	45	1.225	1905	500' R	2381
550,000	427/.0359	.969	30	40	40	45	1.280	2100	500' R	2625
600,000	427/.0375	1.015	30	40	40	45	1.325	2305	500' R	2881
650,000	427/.0390	1.053	30	40	40	45	1.365	2440	500' R	3050
700,000	427/.0405	1.094	30	40	40	45	1.405	2570	500' R	3212
750,000	427/.0419	1.131	30	40	40	45	1.445	2780	500' R	3475
800,000	427/.0433	1.169	30	40	40	45	1.480	2855	500' R	3568
900,000	427/.0459	1.239	30	40	40	45	1.550	3225	500' R	4028
1,000,000	427/.0484	1.307	30	40	40	45	1.620	3590	500' R	4487

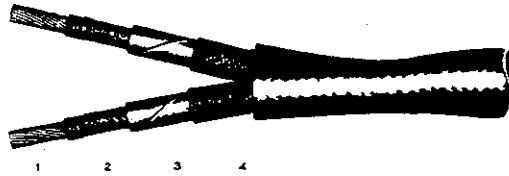
*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. TC—Coils, R—Reels
**Not listed in National Electrical Code.



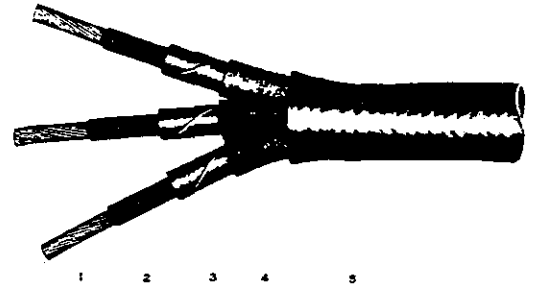
ROCKBESTOS A.V.C. 600 VOLT FLEXIBLE CORDS

MAXIMUM OPERATING TEMPERATURE: 110°C (230°F)

TWO CONDUCTOR—TABLE CV



THREE CONDUCTOR—TABLE CVC



APPLICATIONS

These Rockbestos A.V.C. Flexible Cords were originally developed for locomotive cab and guage lighting circuits, and because of its high insulation resistance found a special application in railroad locomotives equipped with train control apparatus. They are recommended for floodlights, pendant and high wattage lighting units, lighting and control circuits, space heater leads, wiring of apparatus which develops heat or is used in high temperature areas.

Rockbestos A.V.C. Flexible Cords should be used for the wiring of industrial type pendant lighting fixtures in hot locations where high humidity or moisture is prevalent. It is also the correct type of cord to use in heat-developing equipment and high wattage lighting units that may be operated where moisture exists.

SPECIFICATIONS

1. Stranded tinned conductor
2. Felted asbestos
3. Varnished Cambric
4. Felted asbestos
5. Asbestos braid

If a perfectly round construction is desired, it can be made up with fillers on special order. For general extension use where cord may be dragged over masonry and rough floors, a good rubber jacketed cord is recommended.

If required for AVPD applications it can be made with polarized conductors on special order.

Standard finish colors: Black, white, red, blue and gray.

Authorized stock items: Black.

TABLE CV

600 VOLTS

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils				*Nominal Finished Diameter Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid				
18 AWG	16/30	.045	10	30	15	45	.390	60	500' C	65
16	26/30	.059	10	30	15	45	.420	70	500' C	75
14	41/30	.075	10	30	15	45	.450	85	500' C	91
12	65/30	.095	10	30	15	45	.485	110	250' C	116
10	104/30	.120	10	30	15	45	.535	145	500' C	152

TABLE CVC

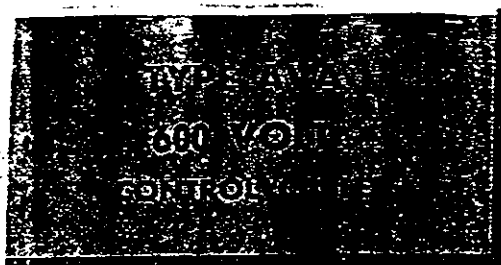
600 VOLTS

Size	Stranding	Bare Diam. Inches	1st Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid	*Nominal Finished Diameter Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
18 AWG	16/30	.045	10	30	15	45	.415	80	500' C	88
16	26/30	.059	10	30	15	45	.445	95	500' C	102
14	41/30	.075	10	30	15	45	.475	115	500' C	123
12	65/30	.095	10	30	15	45	.520	150	250' C	158
10	104/30	.120	10	30	15	45	.570	205	250' C	213

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. †C—Coils.

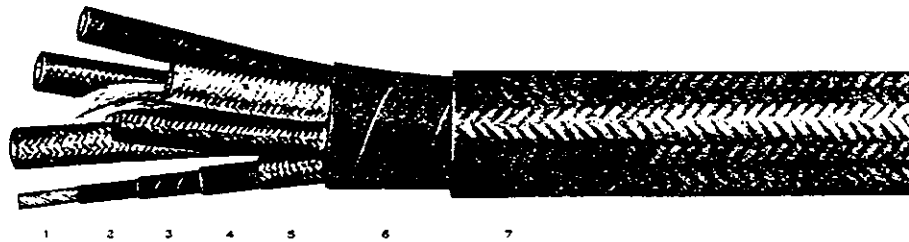
NEW HAVEN, CONNECTICUT

RBB 01253



ROCKBESTOS A.V.C.
600 VOLT CONTROL CABLE
TYPE A.V.A.—ROCKBESTOS A.V.C.

MAXIMUM OPERATING TEMPERATURE: 110°C (230°F)



APPLICATIONS

This cable finds its use in steel mills, power stations, boiler rooms, automotive, ceramic and glass plants or other industries in which control and signal circuits or control apparatus are exposed to heat or fire hazard. It is especially recommended for use in circuits and apparatus in metal making mills, boiler rooms, and power plants as it is highly resistant to heat, corrosive fumes, oil, grease and flame and has ample moisture resistance for installation either open or in conduit. Under exposure to flame this cable will maintain vital control and alarm system circuits for longer periods than other types of insulated cables.

SPECIFICATIONS

1. Tinned copper conductor
2. Felted asbestos
3. Varnished cambric
4. Felted asbestos
5. Color coded cotton braids
6. Cable tape
7. Asbestos braid

This cable is NEMA TYPE A.V.A. with a maximum operating temperature of 110°C (230°F).

Conductors

The standard strandings furnished on these Rockbestos A.V.C. Control Cables is 19/22 (No. 9 A.W.G.) and 19/25 (No. 12 A.W.G.) but any desired stranding can be furnished to order and cabled into any required number of conductors.

Insulation

The insulation of the individual conductors is the same type as that on the power cables described on the previous pages with the exception of the outer braid which is a color coded cotton braid to obtain circuit identification. When furnished for single conductor use asbestos braid replaces cotton braid. Impregnated felted asbestos walls seal the varnished cambric from heat, flame and oxidation. Moisture-proof tape is wrapped over the cabled conductors and the

outer covering of tough, braided asbestos yarn is finished with heat, flame and moisture resisting compounds.

Coding

The individual wires are braided in colors according to the NEMA standard color code for multi-conductor cable, which is reproduced below. Special color combinations can be furnished to specification.

Lead or Armor Covering

These cables may be made up with either lead sheath, armor, or lead sheath and armor covering. Synthetic sheathing is optional also where temperatures permit.

Finish

The standard finish of the outer braided asbestos jacket is a black, flame, heat and moisture resisting compound.

NEMA STANDARD COLOR CODE FOR MULTI-CONDUCTOR CONTROL CABLE

Conductors	Base Color	Conductors	Base Color	Tracer	Conductors	Base Color	Tracer
1	Black	7	White	Black	14	Green	White
2	White	8	Red	Black	15	Blue	White
3	Red	9	Green	Black	16	Black	Red
4	Green	10	Orange	Black	17	White	Red
5	Orange	11	Blue	Black	18	Orange	Red
6	Blue	12	Black	White	19	Blue	Red
		13	Red	White			



...Your best buy

600 VOLT CONTROL CABLE

TYPE AVA—ROCKBESTOS A.V.C.

Nominal sizes—9 and 12 AWG 1-19 Conductors

(See Opposite Page for General Information)

Standard conductor sizes are AWG No. 9-19/22 and No. 12-19/25 tinned copper, insulated with a 10 mil wall of felted and impregnated asbestos, 30 mil wall varnished cambric insert, another 15 mil wall of felted asbestos and a cotton braid colored according to the NEMA Control Cable Color Code for Multi-Conductor Cables, listed on the opposite page. The individual conductors are then cabled with jute fillers where necessary, a layer of cable tape is applied and finally an asbestos braid finished with black, flame, heat and moisture resisting compound.

The standard make-up on two conductor construction is to cable the conductors with fillers to make round, but it can also be furnished in parallel construction. Parallel must be specified if desired.

Lead sheath, armor, lead sheath and armor or synthetic sheathing can be substituted instead of asbestos braid. Specify preference.

These Rockbestos A.V.C. control cables can also be made up with No. 14, 16 and 18 A.W.G. conductors.

TABLE MD (AWG No. 12-19/25)

600 VOLTS

TYPE AVA

Number of Conductors	Stranding	Bare Diam. Inches	Braid Thickness	Finished Diam. Inches *Nominal	Approx. Net Wgt. in Lbs. per 1000'	Standard Shipping Weight per 1000'	Approx. Shipping Weight per 1000'
**1	19/25	.090	40	.280	52.5	500' R	65
***2	19/25	.090	40	.370	155	500' R	193
3	19/25	.090	40	.610	190	500' R	237
4	19/25	.090	40	.670	240	500' R	300
5	19/25	.090	40	.735	270	500' R	337
6	19/25	.090	40	.805	330	500' R	400
7	19/25	.090	40	.805	345	500' R	431
8	19/25	.090	40	.875	395	500' R	493
9	19/25	.090	45	.945	450	500' R	562
10	19/25	.090	45	1.025	490	500' R	612
11	19/25	.090	45	1.025	515	500' R	645
12	19/25	.090	45	1.060	555	500' R	695
13	19/25	.090	45	1.090	600	500' R	750
14	19/25	.090	45	1.120	640	500' R	800
15	19/25	.090	45	1.160	690	500' R	862
16	19/25	.090	45	1.185	725	500' R	906
17	19/25	.090	45	1.230	775	500' R	968
18	19/25	.090	45	1.255	815	500' R	1018
19	19/25	.090	45	1.255	840	500' R	1050

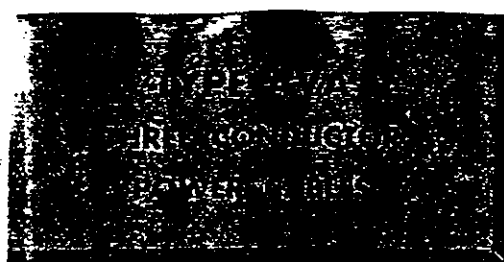
TABLE MT (AWG No. 9-19/22)

600 VOLTS

TYPE AVA

Number of Conductors	Stranding	Bare Diam. Inches	Braid Thickness	Finished Diam. Inches *Nominal	Approx. Net Wgt. in Lbs. per 1000'	Standard Shipping Weight per 1000'	Approx. Shipping Weight per 1000'
**1	19/22	.127	40	.320	80	500' R	100
***2	19/22	.127	40	.655	225	500' R	281
3	19/22	.127	40	.695	285	500' R	356
4	19/22	.127	40	.765	350	500' R	437
5	19/22	.127	40	.845	410	500' R	512
6	19/22	.127	40	.925	490	500' R	612
7	19/22	.127	40	.925	550	500' R	687
8	19/22	.127	40	1.010	605	500' R	756
9	19/22	.127	45	1.095	690	500' R	862
10	19/22	.127	45	1.185	755	500' R	945
11	19/22	.127	45	1.185	815	500' R	1018
12	19/22	.127	45	1.225	865	500' R	1081
13	19/22	.127	45	1.260	935	500' R	1168
14	19/22	.127	45	1.300	995	500' R	1245
15	19/22	.127	45	1.345	1065	500' R	1331
16	19/22	.127	45	1.375	1130	500' R	1412
17	19/22	.127	45	1.430	1205	500' R	1506
18	19/22	.127	45	1.455	1270	500' R	1587
19	19/22	.127	45	1.455	1335	500' R	1668

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. R—Reels
 **Single conductor has no cotton braid. Asbestos braid is applied directly over insulation.
 ***Can be furnished either parallel or cabled with fillers to make round. Specify which.



POWER CABLE

TYPE AVA—ROCKBESTOS A.V.C.



**600 TO 1000 VOLT
CONSTRUCTION**

MAXIMUM OPERATING TEMPERATURE:
110°C (230°F)

APPLICATIONS

The three conductor Power Cables listed in this section are used for power circuits exposed to heat and moisture, corrosive fumes and fire hazard around boilers, furnaces, steam lines, in power plants, etc. These cables are recommended for open wiring applications or for conduit runs. Rockbestos Three Conductor Power Cables have the same heat and moisture resisting qualities as single conductor constructions.

Rockbestos Hi-I A.V.C. Multi-Conductor Power Cables (Type AVA) consist of single conductor AVA cables of the required voltage ratings but without individual braids, cabled together with suitable lay and with impregnated jute fillers to maintain circularity of cross section. The assembled conductors are wrapped with a cable tape over which is applied heavy asbestos braid, Lead sheath, armor, or lead sheath and armor can be furnished instead of asbestos braid on special order. These three conductor power cables are manufactured to NEMA Standards.

SPECIFICATIONS

Construction

1. Stranded plain copper conductor
2. Felted asbestos
3. Varnished cambric
4. Felted asbestos
5. Jute fillers
6. Cable tape
7. Asbestos braid

This construction consists of three individual power cables minus their outer braids, cabled together with jute fillers, taped and covered with a heavy asbestos braid.

Asbestos fillers may be substituted for jute if required.

Standard finish color: Black.

2000 TO 5000 VOLT CONSTRUCTIONS

MAXIMUM OPERATING TEMPERATURES:

- 2000 VOLT 109°C (228°F)
- 3000 VOLT 106°C (222°F)
- 4000 VOLT 103°C (217°F)
- 5000 VOLT 100°C (212°F)



APPLICATIONS

Rockbestos three conductor power cables in voltage ratings of 2000 volts to 5000 volts have the same general applications as listed above under the 600 volt to 1000 volt construction.

They can also be furnished with lead sheath, armor, or lead sheath and armor instead of the asbestos braid on special order.

SPECIFICATIONS

Construction

1. Stranded plain copper conductor
2. Felted asbestos
3. Varnished cambric
4. Felted asbestos
5. Jute fillers
6. Varnished cambric
7. Asbestos braid



...Your best buy

ROCKBESTOS A.V.C.

THREE CONDUCTOR POWER CABLE

TABLE EC, 600 VOLTS

MAX. OPERATING TEMP.
110°C (230°F)

TABLE EMC, 1000 VOLTS

MAX. OPERATING TEMP.
110°C (230°F)

TABLE EC

600 VOLTS

TYPE AVA

Size	Stranding	Bare Diam. Inches	Nominal Thickness—Mils				Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid				
12 AWG	7/.0305	.092	10	30	15	45	.550	175	500' R	218
10	7/.0385	.116	10	30	15	45	.600	225	500' R	281
8	7/.0486	.146	10	30	15	45	.665	305	500' R	381
6	7/.0612	.184	15	30	20	45	.780	445	500' R	556
5	7/.0688	.206	15	30	20	45	.825	520	500' R	650
4	7/.0772	.232	15	30	20	45	.885	645	500' R	806
3	7/.0867	.260	15	30	20	45	.945	760	500' R	950
2	7/.0974	.292	15	30	20	45	1.015	910	500' R	1137
1	19/.0664	.332	20	30	30	45	1.145	1165	500' R	1456
0	19/.0745	.373	20	30	30	45	1.235	1425	500' R	1781
00	19/.0837	.419	20	30	30	45	1.330	1730	500' R	2162
000	19/.0940	.470	20	30	30	45	1.440	2110	500' R	2637
0000	19/.1055	.528	20	30	30	45	1.565	2595	500' R	3245
250.000 CM	37/.0822	.575	25	40	40	45	1.755	3145	500' R	3931
300.000	37/.0900	.630	25	40	40	45	1.875	3675	500' R	4595
350.000	37/.0975	.681	25	40	40	45	1.985	4235	500' R	5293
400.000	37/.1040	.728	25	40	40	45	2.085	4755	500' R	5945
450.000	37/.1105	.772	25	40	40	45	2.180	5300	500' R	6625
500.000	37/.1162	.815	25	40	40	45	2.265	5805	500' R	7256

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. *R—Reels

TABLE EMC

1000 VOLTS

TYPE AVA

Size	Stranding	Bare Diam. Inches	1st Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid	Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
12 AWG	7/.0305	.092	15	45	25	45	.655	235	500' R	293
10	7/.0385	.116	15	45	25	45	.710	290	500' R	362
8	7/.0486	.146	15	45	25	45	.775	375	500' R	468
6	7/.0612	.184	15	45	25	45	.855	505	500' R	631
5	7/.0688	.206	15	45	25	45	.905	595	500' R	743
4	7/.0772	.232	15	45	25	45	.960	685	500' R	856
3	7/.0867	.260	15	45	25	45	1.020	815	500' R	1018
2	7/.0974	.292	15	45	25	45	1.090	975	500' R	1218
1	19/.0664	.332	20	45	30	45	1.210	1215	500' R	1518
0	19/.0745	.373	20	45	30	45	1.300	1475	500' R	1843
00	19/.0837	.419	20	45	30	45	1.395	1775	500' R	2218
000	19/.0940	.470	20	45	30	45	1.505	2170	500' R	2712
0000	19/.1055	.528	20	45	30	45	1.630	2660	500' R	3325
250.000 CM	37/.0822	.575	25	45	40	45	1.775	3170	500' R	3962
300.000	37/.0900	.630	25	45	40	45	1.895	3705	500' R	4631
350.000	37/.0975	.681	25	45	40	45	2.005	4200	500' R	5250
400.000	37/.1040	.728	25	45	40	45	2.105	4780	500' R	5975
450.000	37/.1105	.772	25	45	40	45	2.200	5325	500' R	6656
500.000	37/.1162	.815	25	45	40	45	2.290	5855	500' R	7293

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. *R—Reels

NEW HAVEN, CONNECTICUT

ROCKBESTOS A.V.C.

THREE CONDUCTOR POWER CABLE

TABLE FC, 2000 VOLTS

MAX. OPERATING TEMP.

109°C (228°F)

TABLE GC, 3000 VOLTS

MAX. OPERATING TEMP.

106°C (222°F)

TABLE FC

2000 VOLTS

TYPE AVA

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils				*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 100'
			Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid				
12 AWG	7/.0305	.092	15	60	25	45	.770	300	500' R	375
10	7/.0385	.116	15	60	25	45	.825	360	500' R	450
8	7/.0486	.146	15	60	25	45	.890	455	500' R	568
6	7/.0612	.184	15	60	25	45	.970	590	500' R	737
5	7/.0688	.206	15	60	25	45	1.020	670	500' R	837
4	7/.0772	.232	15	60	25	45	1.075	825	500' R	1021
3	7/.0867	.260	15	60	25	45	1.135	925	500' R	1150
2	7/.0974	.292	15	60	25	45	1.205	1080	500' R	1350
1	19/.0664	.332	20	60	30	45	1.325	1340	500' R	1675
0	19/.0745	.373	20	60	30	45	1.410	1610	500' R	2012
00	19/.0837	.419	20	60	30	45	1.510	1920	500' R	2400
000	19/.0940	.470	20	60	30	45	1.620	2325	500' R	2906
0000	19/.1055	.528	20	60	30	45	1.745	2810	500' R	3512
250,000 CM	37/.0822	.575	25	60	40	45	1.890	3335	500' R	4168
300,000	37/.0900	.630	25	60	40	45	2.010	3890	500' R	4862
350,000	37/.0973	.681	25	60	40	45	2.120	4455	500' R	5545
400,000	37/.1040	.728	25	60	40	45	2.220	4995	500' R	6243
450,000	37/.1103	.772	25	60	40	45	2.315	5510	500' R	6887
500,000	37/.1162	.815	25	60	40	45	2.405	6065	500' R	7581

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. R—Reels

TABLE GC

3000 VOLTS

TYPE AVA

Size	Stranding	Bare Diam. Inches	Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 100'
12 AWG	7/.0305	.092	15	80	25	45	.860	360	500' R	450
10	7/.0385	.116	15	80	25	45	.910	430	500' R	537
8	7/.0486	.146	15	80	25	45	.975	515	500' R	643
6	7/.0612	.184	15	80	25	45	1.055	665	500' R	831
5	7/.0688	.206	15	80	25	45	1.105	745	500' R	931
4	7/.0772	.232	15	80	25	45	1.160	855	500' R	1068
3	7/.0867	.260	15	80	25	45	1.220	995	500' R	1243
2	7/.0974	.292	15	80	25	45	1.290	1165	500' R	1456
1	19/.0664	.332	20	80	30	45	1.410	1420	500' R	1775
0	19/.0745	.373	20	80	30	45	1.500	1695	500' R	2118
00	19/.0837	.419	20	80	30	45	1.595	2010	500' R	2512
000	19/.0940	.470	20	80	30	45	1.705	2420	500' R	3025
0000	19/.1055	.528	20	80	30	45	1.830	2935	500' R	3668
250,000 CM	37/.0822	.575	25	80	40	45	1.980	3455	500' R	4318
300,000	37/.0900	.630	25	80	40	45	2.095	4015	500' R	5018
350,000	37/.0973	.681	25	80	40	45	2.205	4565	500' R	5706
400,000	37/.1040	.728	25	80	40	45	2.305	5105	500' R	6381
450,000	37/.1103	.772	25	80	40	45	2.400	5660	500' R	7075
500,000	37/.1162	.815	25	80	40	45	2.490	6185	500' R	7731

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. R—Reels



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ROCKBESTOS A.V.C. THREE CONDUCTOR POWER CABLE

TABLE 4HC, 4000 VOLTS
MAX. OPERATING TEMP.
103°C (217°F)

TABLE HC, 5000 VOLTS
MAX. OPERATING TEMP.
100°C (212°F)

TABLE 4HC

4000 VOLTS

TYPE AVA

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mills				*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid				
12 AWG	7/.0305	.092	15	100	25	45	.945	425	500' R	656
10	7/.0385	.116	15	100	25	45	.995	475	500' R	718
8	7/.0486	.146	15	100	25	45	1.060	580	500' R	850
6	7/.0612	.184	15	100	25	45	1.145	725	500' R	1031
5	7/.0688	.206	15	100	25	45	1.190	820	500' R	1150
4	7/.0772	.232	15	100	25	45	1.245	935	500' R	1295
3	7/.0867	.260	15	100	25	45	1.310	1085	500' R	1481
2	7/.0974	.292	15	100	25	45	1.375	1250	500' R	1687
1	19/.0664	.332	20	100	30	45	1.495	1525	500' R	2031
0	19/.0745	.373	20	100	30	45	1.585	1805	500' R	2381
00	19/.0837	.419	20	100	30	45	1.680	2135	500' R	2793
000	19/.0940	.470	20	100	30	45	1.795	2545	500' R	3306
0000	19/.1055	.528	20	100	30	45	1.920	3040	500' R	3925
250.000 CM	37/.0822	.575	25	100	40	45	2.060	3600	500' R	4625
300.000	37/.0900	.630	25	100	40	45	2.180	4150	500' R	5312
350.000	37/.0975	.681	25	100	40	45	2.290	4725	500' R	6031
400.000	37/.1040	.728	25	100	40	45	2.395	5285	500' R	6751
450.000	37/.1105	.772	25	100	40	45	2.490	5810	500' R	7512
500.000	37/.1162	.815	25	100	40	45	2.580	6385	500' R	8231

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. R—Reels

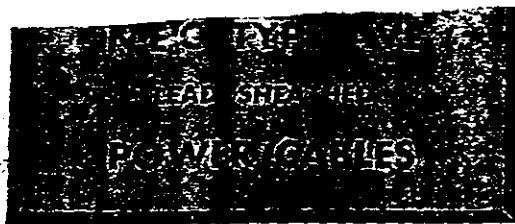
TABLE HC

5000 VOLTS

TYPE AVA

Size	Stranding	Bare Diam. Inches	1st Felted Wall	VC Insert	2nd Felted Wall	Asbestos Braid	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
10 AWG	7/.0385	.116	15	120	25	45	1.085	560	500' R	700
8	7/.0486	.146	15	120	25	45	1.150	660	500' R	825
6	7/.0612	.184	15	120	25	45	1.230	805	500' R	1006
5	7/.0688	.206	15	120	25	45	1.280	905	500' R	1131
4	7/.0772	.232	15	120	25	45	1.335	1025	500' R	1281
3	7/.0867	.260	15	120	25	45	1.395	1165	500' R	1456
2	7/.0974	.292	15	120	25	45	1.465	1345	500' R	1681
1	19/.0664	.332	20	120	30	45	1.580	1650	500' R	2062
0	19/.0745	.373	20	120	30	45	1.670	1885	500' R	2356
00	19/.0837	.419	20	120	30	45	1.770	2260	500' R	2825
000	19/.0940	.470	20	120	30	45	1.880	2660	500' R	3325
0000	19/.1055	.528	20	120	30	45	2.000	3170	500' R	3962
250.000 CM	37/.0822	.575	25	120	40	45	2.150	3720	500' R	4650
300.000	37/.0900	.630	25	120	40	45	2.270	4305	500' R	5381
350.000	37/.0975	.681	25	120	40	45	2.380	4890	500' R	6257
400.000	37/.1040	.728	25	120	40	45	2.480	5425	500' R	6906
450.000	37/.1105	.772	25	120	40	45	2.575	5990	500' R	7612
500.000	37/.1162	.815	25	120	40	45	2.665	6530	500' R	8287

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. R—Reels

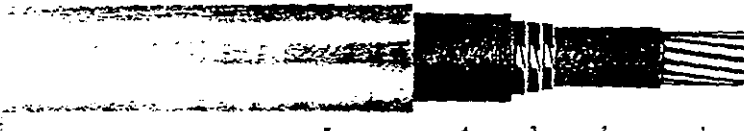


LEAD SHEATHED

POWER CABLE

NEC TYPE AVL—ROCKBESTOS A.V.C.

600 TO 5,000 VOLT RATINGS



SINGLE CONDUCTOR—STRANDED

APPLICATIONS

These Rockbestos Lead Sheathed Power Cables are used for Power and Lighting Circuits exposed to high temperatures in combination with excessive condensation or complete submersion.

Use this cable where a conduit run is exposed to widely varying conditions throughout its length, particularly in power stations located on tidewater where certain ducts are sometimes flooded but where another section of the same circuit is exposed to high temperatures. Also around ash pits where the wetting down of the ashes results in abnormal condensation.

The Cables listed in this section all conform to NEMA Standards for Asbestos Varnished Cambric wires and cables with lead sheath.

The lead sheath has no effect on the ability of these cables to withstand high temperatures but affords protection against abnormal condensation or complete submersion.

SPECIFICATIONS

Construction

1. Stranded plain copper conductor
2. Felted Asbestos
3. Varnished cambric
4. Felted asbestos
5. Lead sheath

This cable is National Electrical Code Type AVL, listed by the Underwriters' Laboratories and is available in sizes up to 2,000,000 CM. Maximum operating temperatures are as follows:

600 Volt	110°C	(230°F)
1000 Volt	110°C	(230°F)
2000 Volt	109°C	(228°F)
3000 Volt	106°C	(222°F)
4000 Volt	103°C	(217°F)
5000 Volt	100°C	(212°F)

These cables are our Standard Power Cable constructions with a lead sheath instead of an asbestos braid.

LIGHTING WIRE LEAD SHEATHED (SOLID)

MAXIMUM OPERATING TEMP: 110°C (230°F)



1. SOLID PLAIN COPPER CONDUCTOR 2. FELTED ASBESTOS 3. VARNISHED CAMBRIC 4. FELTED ASBESTOS 5. LEAD SHEATH

Size	Bare Diam. Inches	Nominal Thickness — Mils			Lead Sheath Inches	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
		1st Felted Wall	VC Insert	2nd Felted Wall					
TABLE CL 600 VOLTS TYPE AVL									
**18 AWG	.040		30	25	3/64	.245	170	500' R	212
**16	.051		30	25	3/64	.255	180	500' R	225
14	.064		30	25	3/64	.270	200	500' R	250
12	.081		30	25	3/64	.285	220	500' R	275
10	.102		30	25	3/64	.310	250	500' R	312
8	.128		30	25	3/64	.335	285	500' R	356
6	.162	15	30	25	3/64	.400	380	500' R	475
5	.182	15	30	25	3/64	.420	420	500' R	525
4	.204	15	30	25	3/64	.440	465	500' R	581
3	.229	15	30	25	3/64	.465	520	500' R	650
2	.258	15	30	25	3/64	.495	585	500' R	731
1	.289	20	30	30	4/64	.575	830	500' R	1057
0	.325	20	30	30	4/64	.610	940	500' R	1175
00	.365	20	30	30	4/64	.650	1070	500' R	1337
000	.410	20	30	30	4/64	.695	1225	500' R	1531
0000	.460	20	30	30	4/64	.745	1415	500' R	1768

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. †R—Reels
 **Not listed in National Electrical Code.



...Your best buy

ROCKBESTOS A.V.C. LEAD SHEATHED SINGLE CONDUCTOR POWER CABLE

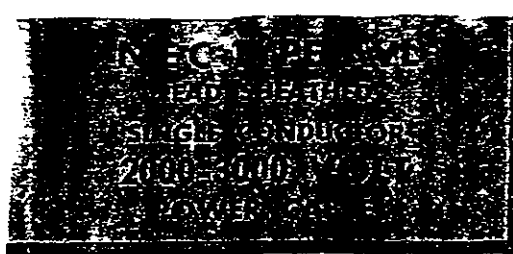
TABLE EL, 600 VOLTS
MAX. OPERATING TEMP.
110°C (230°F)

TABLE EML, 1000 VOLTS
MAX. OPERATING TEMP.
110°C (230°F)

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils			Lead Sheath Inches	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall					
TABLE EL			600 VOLTS				TYPE AVL			
**18 AWG	7/.0152	.046	10	30	25	3/64	.270	195	500' R	245
**16	7/.0192	.058	10	30	25	3/64	.285	205	500' R	256
14	7/.0242	.073	10	30	25	3/64	.300	225	500' R	281
12	7/.0305	.092	10	30	25	3/64	.320	250	500' R	312
10	7/.0385	.116	10	30	25	3/64	.340	275	500' R	343
8	7/.0486	.146	10	30	25	3/64	.370	325	500' R	406
6	7/.0612	.184	15	30	25	3/64	.420	395	500' R	493
5	7/.0688	.206	15	30	25	3/64	.440	445	500' R	556
4	7/.0772	.232	15	30	25	3/64	.470	490	500' R	612
3	7/.0867	.260	15	30	25	3/64	.495	550	500' R	687
2	7/.0974	.292	15	30	25	4/64	.560	745	500' R	931
1	19/.0664	.332	20	30	30	4/64	.620	875	500' R	1093
0	19/.0745	.373	20	30	30	4/64	.660	1000	500' R	1250
00	19/.0837	.419	20	30	30	4/64	.705	1125	500' R	1406
000	19/.0940	.470	20	30	30	4/64	.760	1290	500' R	1612
0000	19/.1055	.528	20	30	30	4/64	.815	1490	500' R	1862
250,000 CM	37/.0822	.575	25	40	40	5/64	.945	1985	500' R	2481
300,000	37/.0900	.630	25	40	40	5/64	1.000	2240	500' R	2800
350,000	37/.0973	.681	25	40	40	5/64	1.050	2445	500' R	3056
400,000	37/.1040	.728	25	40	40	5/64	1.095	2665	500' R	3331
450,000	37/.1105	.772	25	40	40	5/64	1.140	2925	500' R	3656
500,000	37/.1162	.813	25	40	40	5/64	1.180	3095	500' R	3868
550,000	61/.0950	.855	30	40	40	6/64	1.265	3780	500' R	4725
600,000	61/.0992	.893	30	40	40	6/64	1.300	3870	500' R	4837
650,000	61/.1032	.929	30	40	40	6/64	1.340	4130	500' R	5162
700,000	61/.1071	.964	30	40	40	6/64	1.375	4250	500' R	5312
750,000	61/.1109	.998	30	40	40	6/64	1.405	4515	500' R	5643
800,000	61/.1145	1.031	30	40	40	6/64	1.440	4720	500' R	5900
850,000	61/.1180	1.062	30	40	40	6/64	1.470	5030	500' R	6287
900,000	61/.1215	1.093	30	40	40	6/64	1.500	5140	500' R	6425
950,000	61/.1248	1.123	30	40	40	6/64	1.530	5395	500' R	6743
1,000,000	61/.1280	1.152	30	40	40	6/64	1.560	5540	500' R	6925
1,250,000	91/.1172	1.289	30	50	50	7/64	1.770	7135	500' R	8918
1,500,000	91/.1284	1.412	30	50	50	7/64	1.890	8140	500' R	10175
1,750,000	127/.1174	1.526	30	50	50	7/64	2.005	9210	500' R	11512
2,000,000	127/.1255	1.652	30	50	50	7/64	2.110	10120	500' R	12650
TABLE EML			1000 VOLTS				TYPE AVL			
14 AWG	7/.0242	.073	15	45	25	3/64	.340	260	500' R	325
12	7/.0305	.092	15	45	25	3/64	.360	285	500' R	356
10	7/.0385	.116	15	45	25	3/64	.380	320	500' R	400
8	7/.0486	.146	15	45	25	3/64	.410	370	500' R	462
6	7/.0612	.184	15	45	25	3/64	.450	430	500' R	537
5	7/.0688	.206	15	45	25	3/64	.470	490	500' R	612
4	7/.0772	.232	15	45	25	3/64	.500	520	500' R	650
3	7/.0867	.260	15	45	25	4/64	.560	710	500' R	887
2	7/.0974	.292	15	45	25	4/64	.590	790	500' R	987
1	19/.0664	.332	20	45	30	4/64	.650	915	500' R	1143
0	19/.0745	.373	20	45	30	4/64	.690	1030	500' R	1287
00	19/.0837	.419	20	45	30	4/64	.735	1165	500' R	1456
000	19/.0940	.470	20	45	30	4/64	.790	1335	500' R	1668
0000	19/.1055	.528	20	45	30	5/64	.875	1760	500' R	2200
250,000 CM	37/.0822	.575	25	45	40	5/64	.955	2005	500' R	2506
300,000	37/.0900	.630	25	45	40	5/64	1.010	2235	500' R	2793
350,000	37/.0973	.681	25	45	40	5/64	1.060	2465	500' R	3081
400,000	37/.1040	.728	25	45	40	5/64	1.105	2685	500' R	3356
450,000	37/.1105	.772	25	45	40	5/64	1.150	2905	500' R	3631
500,000	37/.1162	.813	25	45	40	5/64	1.190	3115	500' R	3893
550,000	61/.0950	.855	30	45	40	6/64	1.275	3330	500' R	4162
600,000	61/.0992	.893	30	45	40	6/64	1.315	3895	500' R	4868
650,000	61/.1032	.929	30	45	40	6/64	1.350	4110	500' R	5137
700,000	61/.1071	.964	30	45	40	6/64	1.385	4320	500' R	5400
750,000	61/.1109	.998	30	45	40	6/64	1.420	4534	500' R	5667
800,000	61/.1145	1.031	30	45	40	6/64	1.450	4745	500' R	5931
850,000	61/.1180	1.062	30	45	40	6/64	1.480	4980	500' R	6225
900,000	61/.1215	1.093	30	45	40	6/64	1.515	5160	500' R	6450
950,000	61/.1248	1.123	30	45	40	6/64	1.545	5400	500' R	6750
1,000,000	61/.1280	1.152	30	45	40	6/64	1.570	5565	500' R	6956

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. †R—Reels
**Not listed in National Electrical Code.

NEW RAYON CONNECTION



ROCKBESTOS A.V.C.
LEAD SHEATHED
SINGLE CONDUCTOR POWER CABLE

TABLE FL, 2000 VOLTS
MAX. OPERATING TEMP.
109°C (228°F)

TABLE G, 3000 VOLTS
MAX. OPERATING TEMP.
106°C (222°F)

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils			Lead Sheath Inches	Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			Felted Wall	VC Insert	2nd Felted Wall					
TABLE FL			2000 VOLTS					TYPE AVL		
14 AWG	7/.0342	.075	15	60	25	3/64	.370	290	500' R	362
12	7/.0305	.092	15	60	25	3/64	.390	315	500' R	395
10	7/.0385	.116	15	60	25	3/64	.410	350	500' R	457
8	7/.0486	.146	15	60	25	3/64	.440	400	500' R	500
6	7/.0612	.184	15	60	25	3/64	.480	460	500' R	575
5	7/.0688	.206	15	60	25	3/64	.500	510	500' R	657
4	7/.0772	.232	15	60	25	4/64	.560	675	500' R	845
3	7/.0867	.260	15	60	25	4/64	.590	755	500' R	945
2	7/.0974	.292	15	60	25	4/64	.620	830	500' R	1037
1	19/.0664	.552	20	60	30	4/64	.680	960	500' R	1200
0	19/.0745	.575	20	60	30	4/64	.720	1080	500' R	1350
00	19/.0837	.619	20	60	30	4/64	.765	1215	500' R	1518
000	19/.0940	.670	20	60	30	4/64	.820	1370	500' R	1712
0000	19/.1055	.728	20	60	30	5/64	.905	1820	500' R	2275
250,000 CM	37/.0822	.575	25	60	40	5/64	.985	2060	500' R	2575
300,000	37/.0900	.630	25	60	40	5/64	1.040	2295	500' R	2868
350,000	37/.0975	.681	25	60	40	5/64	1.090	2520	500' R	3150
400,000	37/.1040	.728	25	60	40	5/64	1.135	2745	500' R	3451
450,000	37/.1105	.772	25	60	40	5/64	1.180	2990	500' R	3737
500,000	37/.1162	.813	25	60	40	6/64	1.255	3475	500' R	4343
550,000	61/.0950	.855	30	60	40	6/64	1.305	3775	500' R	4718
600,000	61/.0992	.893	30	60	40	6/64	1.345	3965	500' R	4956
650,000	61/.1032	.929	30	60	40	6/64	1.380	4215	500' R	5268
700,000	61/.1071	.964	30	60	40	6/64	1.415	4395	500' R	5495
750,000	61/.1109	.998	30	60	40	6/64	1.450	4610	500' R	5762
800,000	61/.1145	1.031	30	60	40	6/64	1.480	4830	500' R	6037
850,000	61/.1180	1.062	30	60	40	6/64	1.510	5075	500' R	6343
900,000	61/.1215	1.095	30	60	40	6/64	1.545	5245	500' R	6556
950,000	61/.1248	1.125	30	60	40	6/64	1.575	5485	500' R	6856
1,000,000	61/.1280	1.152	30	60	40	6/64	1.600	5645	500' R	7056
TABLE GL			3000 VOLTS					TYPE AVL		
12 AWG	7/.0305	.092	15	80	25	3/64	.430	365	500' R	456
10	7/.0385	.116	15	80	25	3/64	.450	400	500' R	500
8	7/.0486	.146	15	80	25	3/64	.480	450	500' R	562
6	7/.0612	.184	15	80	25	3/64	.520	640	500' R	800
5	7/.0688	.206	15	80	25	4/64	.575	700	500' R	875
4	7/.0772	.232	15	80	25	4/64	.600	745	500' R	951
3	7/.0867	.260	15	80	25	4/64	.630	810	500' R	1012
2	7/.0974	.292	15	80	25	4/64	.660	890	500' R	1112
1	19/.0664	.552	20	80	30	4/64	.720	1020	500' R	1275
0	19/.0745	.575	20	80	30	4/64	.760	1140	500' R	1425
00	19/.0837	.619	20	80	30	4/64	.805	1275	500' R	1595
000	19/.0940	.670	20	80	30	5/64	.890	1675	500' R	2095
0000	19/.1055	.728	20	80	30	5/64	.945	1805	500' R	2256
250,000 CM	37/.0822	.575	25	80	40	5/64	1.025	2140	500' R	2675
300,000	37/.0900	.630	25	80	40	5/64	1.080	2375	500' R	2968
350,000	37/.0975	.681	25	80	40	5/64	1.130	2600	500' R	3250
400,000	37/.1040	.728	25	80	40	5/64	1.175	2855	500' R	3568
450,000	37/.1105	.772	25	80	40	6/64	1.250	3370	500' R	4212
500,000	37/.1162	.813	25	80	40	6/64	1.295	3600	500' R	4500
550,000	61/.0950	.855	30	80	40	6/64	1.345	3870	500' R	4837
600,000	61/.0992	.893	30	80	40	6/64	1.385	4065	500' R	5081
650,000	61/.1032	.929	30	80	40	6/64	1.420	4305	500' R	5381
700,000	61/.1071	.964	30	80	40	6/64	1.455	4500	500' R	5625
750,000	61/.1109	.998	30	80	40	6/64	1.490	4710	500' R	5887
800,000	61/.1145	1.031	30	80	40	6/64	1.520	4925	500' R	6156
850,000	61/.1180	1.062	30	80	40	6/64	1.550	5225	500' R	6531
900,000	61/.1215	1.095	30	80	40	6/64	1.585	5540	500' R	6675
950,000	61/.1248	1.125	30	80	40	6/64	1.615	5591	500' R	6988
1,000,000	61/.1280	1.152	30	80	40	6/64	1.640	5750	500' R	7137

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. R—Reels



...Your best buy

ROCKBESTOS A.V.C. LEAD SHEATHED SINGLE CONDUCTOR POWER CABLE

TABLE 4HL, 4000 VOLTS

MAX. OPERATING TEMP.
103°C (217°F)

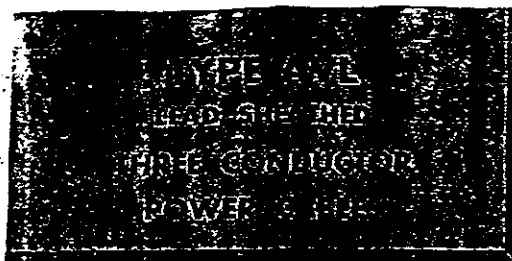
TABLE HL, 5000 VOLTS

MAX. OPERATING TEMP.
100°C (212°F)

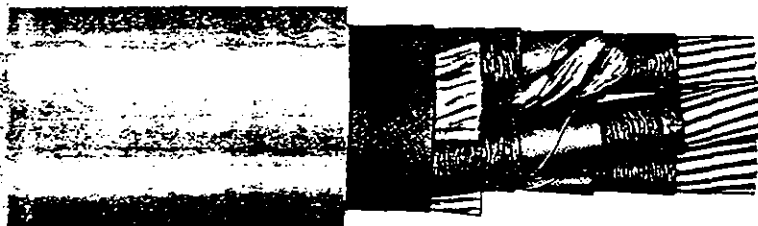
Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils			Lead Sheath Inches	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall					
TABLE 4HL			4000 VOLTS				TYPE AVL			
12 AWG	7/.0305	.092	15	100	25	3/64	.470	410	500' R	512
10	7/.0385	.116	15	100	25	3/64	.490	445	500' R	556
8	7/.0486	.146	15	100	25	4/64	.555	625	500' R	781
6	7/.0612	.184	15	100	25	4/64	.590	705	500' R	881
5	7/.0688	.206	15	100	25	4/64	.615	760	500' R	950
4	7/.0772	.232	15	100	25	4/64	.640	810	500' R	1012
3	7/.0867	.260	15	100	25	4/64	.665	880	500' R	1100
2	7/.0974	.292	15	100	25	4/64	.700	960	500' R	1200
1	19/.0664	.332	20	100	30	4/64	.760	1095	500' R	1368
0	19/.0745	.373	20	100	30	4/64	.800	1210	500' R	1512
00	19/.0837	.419	20	100	30	5/64	.875	1580	500' R	1975
000	19/.0940	.470	20	100	30	5/64	.930	1770	500' R	2212
0000	19/.1055	.528	20	100	30	5/64	.985	1990	500' R	2487
250,000 CM	37/.0822	.575	25	100	40	5/64	1.065	2245	500' R	2806
300,000	37/.0900	.630	25	100	40	5/64	1.120	2485	500' R	3106
350,000	37/.0973	.681	25	100	40	5/64	1.170	2720	500' R	3400
400,000	37/.1040	.728	25	100	40	6/64	1.250	3265	500' R	4081
450,000	37/.1103	.772	25	100	40	6/64	1.290	3495	500' R	4368
500,000	37/.1162	.813	25	100	40	6/64	1.335	3730	500' R	4662
550,000	61/.0950	.855	30	100	40	6/64	1.385	3985	500' R	4868
600,000	61/.0992	.893	30	100	40	6/64	1.425	4210	500' R	5262
650,000	61/.1032	.929	30	100	40	6/64	1.460	4430	500' R	5557
700,000	61/.1071	.964	30	100	40	6/64	1.495	4645	500' R	5806
750,000	61/.1109	.998	30	100	40	6/64	1.530	4860	500' R	6075
800,000	61/.1145	1.031	30	100	40	6/64	1.560	5075	500' R	6343
850,000	61/.1180	1.062	30	100	40	6/64	1.590	5285	500' R	6606
900,000	61/.1215	1.093	30	100	40	6/64	1.625	5495	500' R	6868
950,000	61/.1248	1.123	30	100	40	6/64	1.655	5705	500' R	7131
1,000,000	61/.1280	1.152	30	100	40	6/64	1.680	5910	500' R	7387
TABLE HL			5000 VOLTS				TYPE AVL			
10 AWG	7/.0385	.116	15	120	25	4/64	.565	615	500' R	768
8	7/.0486	.146	15	120	25	4/64	.595	674	500' R	842
6	7/.0612	.184	15	120	25	4/64	.630	750	500' R	937
5	7/.0688	.206	15	120	25	4/64	.655	820	500' R	1025
4	7/.0772	.232	15	120	25	4/64	.680	860	500' R	1075
3	7/.0867	.260	15	120	25	4/64	.705	930	500' R	1162
2	7/.0974	.292	15	120	25	4/64	.740	1010	500' R	1262
1	19/.0664	.332	20	120	30	4/64	.800	1150	500' R	1437
0	19/.0745	.373	20	120	30	5/64	.870	1480	500' R	1850
00	19/.0837	.419	20	120	30	5/64	.915	1645	500' R	2056
000	19/.0940	.470	20	120	30	5/64	.970	1830	500' R	2287
0000	19/.1055	.528	20	120	30	5/64	1.025	2055	500' R	2568
250,000 CM	37/.0822	.575	25	120	40	5/64	1.105	2305	500' R	2881
300,000	37/.0900	.630	25	120	40	5/64	1.160	2544	500' R	3180
350,000	37/.0973	.681	25	120	40	6/64	1.240	3095	500' R	3868
400,000	37/.1040	.728	25	120	40	6/64	1.290	3335	500' R	4168
450,000	37/.1103	.772	25	120	40	6/64	1.330	3565	500' R	4456
500,000	37/.1162	.813	25	120	40	6/64	1.375	3800	500' R	4750
550,000	61/.0950	.855	30	120	40	6/64	1.425	4040	500' R	5050
600,000	61/.0992	.893	30	120	40	6/64	1.465	4280	500' R	5350
650,000	61/.1032	.929	30	120	40	6/64	1.500	4495	500' R	5618
700,000	61/.1071	.964	30	120	40	6/64	1.535	4715	500' R	5893
750,000	61/.1109	.998	30	120	40	6/64	1.570	4930	500' R	6162
800,000	61/.1145	1.031	30	120	40	6/64	1.600	5145	500' R	6431
850,000	61/.1180	1.062	30	120	40	6/64	1.630	5398	500' R	6747
900,000	61/.1215	1.093	30	120	40	6/64	1.665	5570	500' R	6962
950,000	61/.1248	1.123	30	120	40	7/64	1.725	6234	500' R	7792
1,000,000	61/.1280	1.152	30	120	40	7/64	1.755	6430	500' R	8057

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. R—Reels

NEW CABLE CONNECTIONS



LEAD SHEATHED—THREE CONDUCTOR POWER CABLE TYPE AVL—ROCKBESTOS A.V.C.



**600 TO 1000 VOLT
CONSTRUCTION**

MAXIMUM OPERATING TEMP. 110°C (230°F)

APPLICATIONS

These Rockbestos A.V.C. lead sheathed three conductor power cables are used for power circuits exposed to high temperatures in combination with excessive condensation or complete submersion. You can safely use these cables where a conduit run is exposed to widely varying conditions throughout its length, particularly in power stations located on tidewater where certain ducts are sometimes flooded but where another part of the same circuit is exposed to high temperatures.

Rockbestos Hi-I A.V.C. Multi-conductor power cables (Type AVL) consist of single conductor AVA cables of the required voltage rating but without individual braids, cabled together with suitable lay and with impregnated jute fillers to maintain circularity of cross section. The assembled conductors are wrapped with a cable tape over which a lead sheath is applied.

These three conductor lead sheath cables are manufactured to NEMA Standards.

SPECIFICATIONS

Construction

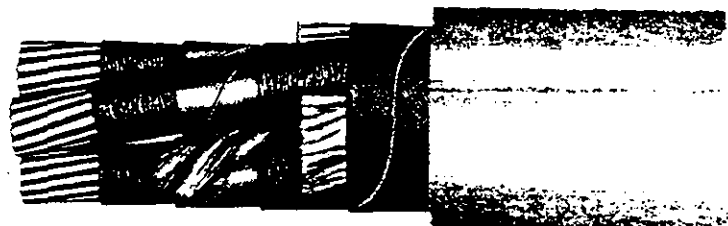
1. Stranded plain copper conductor
2. Felted asbestos
3. Varnished cambric
4. Felted asbestos
5. Jute fillers
6. Cable tape
7. Lead sheath

Maximum operating temperature is 110°C (230°F). Asbestos fillers may be substituted for jute if desired.

2000 TO 5000 VOLT CONSTRUCTIONS

MAXIMUM OPERATING TEMPERATURES:

- 2000 VOLT 109°C (228°F)
- 3000 VOLT 106°C (222°F)
- 4000 VOLT 103°C (217°F)
- 5000 VOLT 100°C (212°F)



APPLICATIONS

Rockbestos three conductor power cables in voltage ratings of 2000 to 5000 volts have the same general applications as listed above under the 600 to 1000 volt construction.

They can also be furnished with armor or lead sheath and armor as shown on page 36 on special order.

SPECIFICATIONS

Construction

1. Stranded plain copper conductor
2. Felted asbestos
3. Varnished cambric
4. Felted asbestos
5. Jute fillers
6. Varnished cambric
7. Lead sheath



...Your best buy

ROCKBESTOS A.V.C. **LEAD SHEATHED** **THREE CONDUCTOR POWER CABLE**

TABLE ECL, 600 VOLTS
 MAX. OPERATING TEMP.
 110°C (230°F)

TABLE EMCL, 1000 VOLTS
 MAX. OPERATING TEMP.
 110°C (230°F)

TABLE ECL

600 VOLTS

TYPE AVL

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils			Lead Sheath Inches	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall					
12 AWG	7/.0305	.092	10	30	25	4/64	.620	710	500' R	887
10	7/.0385	.116	10	30	25	4/64	.670	810	500' R	1012
8	7/.0486	.146	10	30	25	4/64	.740	960	500' R	1200
6	7/.0612	.184	15	30	25	5/64	.860	1400	500' R	1750
5	7/.0688	.206	15	30	25	5/64	.910	1545	500' R	1951
4	7/.0772	.232	15	30	25	5/64	.965	1705	500' R	2151
3	7/.0867	.260	15	30	25	5/64	1.025	1905	500' R	2381
2	7/.0974	.292	15	30	25	5/64	1.095	2150	500' R	2687
1	19/.0664	.332	20	30	30	6/64	1.240	2835	500' R	3545
0	19/.0745	.373	20	30	30	6/64	1.330	3225	500' R	4051
00	19/.0837	.419	20	30	30	6/64	1.430	3665	500' R	4581
000	19/.0940	.470	20	30	30	6/64	1.540	4205	500' R	5256
0000	19/.1055	.528	20	30	30	6/64	1.665	4865	500' R	6081
250,000 CM	37/.0822	.575	25	40	40	7/64	1.885	6180	500' R	7725
300,000	37/.0900	.630	25	40	40	7/64	2.000	6915	500' R	8645
350,000	37/.0975	.681	25	40	40	7/64	2.110	7665	500' R	9706
400,000	37/.1040	.728	25	40	40	8/64	2.245	8915	500' R	11145
450,000	37/.1105	.772	25	40	40	8/64	2.340	9650	500' R	12062
500,000	37/.1162	.815	25	40	40	8/64	2.425	10535	500' R	12918

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. *R—Reels

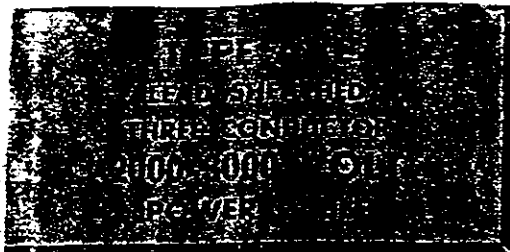
TABLE EMCL

1000 VOLTS

TYPE AVL

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils			Lead Sheath Inches	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall					
12 AWG	7/.0305	.092	15	45	25	4/64	.705	835	500' R	1045
10	7/.0385	.116	15	45	25	4/64	.760	940	500' R	1175
8	7/.0486	.146	15	45	25	4/64	.825	1085	500' R	1356
6	7/.0612	.184	15	45	25	5/64	.925	1520	500' R	1900
5	7/.0688	.206	15	45	25	5/64	.975	1665	500' R	2081
4	7/.0772	.232	15	45	25	5/64	1.030	1825	500' R	2281
3	7/.0867	.260	15	45	25	5/64	1.090	2025	500' R	2531
2	7/.0974	.292	15	45	25	5/64	1.160	2265	500' R	2831
1	19/.0664	.332	20	45	30	6/64	1.305	2980	500' R	3725
0	19/.0745	.373	20	45	30	6/64	1.395	3360	500' R	4200
00	19/.0837	.419	20	45	30	6/64	1.495	3805	500' R	4756
000	19/.0940	.470	20	45	30	6/64	1.605	4360	500' R	5450
0000	19/.1055	.528	20	45	30	7/64	1.760	5480	500' R	6850
250,000 CM	37/.0822	.575	25	45	40	7/64	1.905	6245	500' R	7806
300,000	37/.0900	.630	25	45	40	7/64	2.025	6985	500' R	8751
350,000	37/.0975	.681	25	45	40	7/64	2.135	7725	500' R	9656
400,000	37/.1040	.728	25	45	40	8/64	2.265	8410	500' R	10512
450,000	37/.1105	.772	25	45	40	8/64	2.360	9120	500' R	11400
500,000	37/.1162	.815	25	45	40	8/64	2.450	9750	500' R	12162

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. *R—Reels



ROCKBESTOS A.V.C.

LEAD SHEATHED

THREE CONDUCTOR POWER CABLE

TABLE FCL, 2000 VOLTS

TABLE GCL, 3000 VOLTS

MAX. OPERATING TEMP.
109°C (228°F)

MAX. OPERATING TEMP.
106°C (222°F)

TABLE FCL

2000 VOLTS

TYPE AVL

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils			Lead Sheath Inches	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall					
12 AWG	7/.0305	.092	15	60	25	5/64	.855	1225	500' R	1551
10	7/.0385	.116	15	60	25	5/64	.905	1350	500' R	1687
8	7/.0486	.146	15	60	25	5/64	.970	1520	500' R	1900
6	7/.0612	.184	15	60	25	5/64	1.040	1740	500' R	2175
5	7/.0688	.206	15	60	25	5/64	1.090	1875	500' R	2343
4	7/.0772	.232	15	60	25	5/64	1.145	2060	500' R	2575
3	7/.0867	.260	15	60	25	6/64	1.240	2390	500' R	3257
2	7/.0974	.292	15	60	25	6/64	1.305	2845	500' R	3556
1	19/.0664	.332	20	60	30	6/64	1.420	3265	500' R	4081
0	19/.0745	.373	20	60	30	6/64	1.510	3660	500' R	4575
00	19/.0837	.419	20	60	30	6/64	1.605	4115	500' R	5143
000	19/.0940	.470	20	60	30	7/64	1.750	5125	500' R	6406
0000	19/.1055	.528	20	60	30	7/64	1.875	5825	500' R	7281
250,000 CM	37/.0822	.575	25	60	40	7/64	2.020	6605	500' R	8256
300,000	37/.0900	.630	25	60	40	7/64	2.135	7365	500' R	9206
350,000	37/.0973	.681	25	60	40	8/64	2.280	8665	500' R	10831
400,000	37/.1040	.728	25	60	40	8/64	2.380	9425	500' R	11781
450,000	37/.1103	.772	25	60	40	8/64	2.475	10150	500' R	12662
500,000	37/.1162	.813	25	60	40	8/64	2.565	10860	500' R	13575

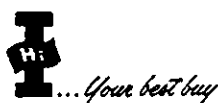
TABLE GCL

3000 VOLTS

TYPE AVL

Size	Stranding	Bare Diam. Inches	1st Felted Wall	VC Insert	2nd Felted Wall	Lead Sheath Inches	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
12 AWG	7/.0305	.092	15	80	25	5/64	.940	1390	500' R	1612
10	7/.0385	.116	15	80	25	5/64	.990	1520	500' R	1900
8	7/.0486	.146	15	80	25	5/64	1.055	1685	500' R	2106
6	7/.0612	.184	15	80	25	5/64	1.130	1905	500' R	2381
5	7/.0688	.206	15	80	25	5/64	1.175	2055	500' R	2568
4	7/.0772	.232	15	80	25	6/64	1.265	2355	500' R	3193
3	7/.0867	.260	15	80	25	6/64	1.325	2785	500' R	3481
2	7/.0974	.292	15	80	25	6/64	1.395	3055	500' R	3818
1	19/.0664	.332	20	80	30	6/64	1.505	3470	500' R	4337
0	19/.0745	.373	20	80	30	6/64	1.595	3870	500' R	4837
00	19/.0837	.419	20	80	30	7/64	1.725	4770	500' R	5962
000	19/.0940	.470	20	80	30	7/64	1.835	5370	500' R	6712
0000	19/.1055	.528	20	80	30	7/64	1.960	6105	500' R	7631
250,000 CM	37/.0822	.575	25	80	40	7/64	2.105	6875	500' R	8593
300,000	37/.0900	.630	25	80	40	8/64	2.255	8200	500' R	10250
350,000	37/.0973	.681	25	80	40	8/64	2.365	8965	500' R	11206
400,000	37/.1040	.728	25	80	40	8/64	2.465	9705	500' R	12131
450,000	37/.1103	.772	25	80	40	8/64	2.560	10450	500' R	13062
500,000	37/.1162	.813	25	80	40	8/64	2.650	11155	500' R	13943

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. R—Reels



ROCKBESTOS A.V.C.
LEAD SHEATHED
THREE CONDUCTOR POWER CABLE
TABLE 4HCL, 4000 VOLTS TABLE HCL, 5000 VOLTS
MAX. OPERATING TEMP. MAX. OPERATING TEMP.
103°C (217°F) 100°C (212°F)

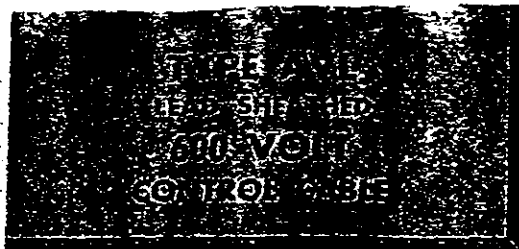
TABLE 4HCL						4000 VOLTS			TYPE AVL	
Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils			Lead Sheath Inches	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			Felred Wall	Varnished Cambric	2nd Felred Wall					
12 AWG	7/.0305	.092	15	100	25	5/64	1.025	1560	500' R	1950
10	7/.0385	.116	15	100	25	5/64	1.080	1675	500' R	2118
8	7/.0486	.146	15	100	25	5/64	1.145	1855	500' R	2318
6	7/.0612	.184	15	100	25	6/64	1.245	2405	500' R	3006
5	7/.0688	.206	15	100	25	6/64	1.295	2565	500' R	3206
4	7/.0772	.232	15	100	25	6/64	1.350	2760	500' R	3450
3	7/.0867	.260	15	100	25	6/64	1.410	2995	500' R	3745
2	7/.0974	.292	15	100	25	6/64	1.480	3265	500' R	4081
1	19/.0664	.352	20	100	30	6/64	1.595	3700	500' R	4625
0	19/.0745	.373	20	100	30	6/64	1.680	4100	500' R	5125
00	19/.0837	.419	20	100	30	7/64	1.810	5040	500' R	6500
000	19/.0940	.470	20	100	30	7/64	1.920	5650	500' R	7062
0000	19/.1055	.528	20	100	30	7/64	2.045	6355	500' R	7945
250,000 CM	37/.0822	.575	25	100	40	7/64	2.190	7160	500' R	8950
300,000	37/.0900	.630	25	100	40	8/64	2.340	8500	500' R	10625
350,000	37/.0973	.681	25	100	40	8/64	2.450	9295	500' R	11620
400,000	37/.1040	.728	25	100	40	8/64	2.555	10060	500' R	12575
450,000	37/.1103	.772	25	100	40	8/64	2.650	10775	500' R	13468
500,000	37/.1162	.815	25	100	40	8/64	2.740	11525	500' R	14406

TABLE HCL						5000 VOLTS			TYPE AVL	
Size	Stranding	Bare Diam. Inches	Felred Wall	Varnished Cambric	2nd Felred Wall	Lead Sheath Inches	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
10 AWG	7/.0385	.116	15	120	25	5/64	1.165	1855	500' R	2518
8	7/.0486	.146	15	120	25	5/64	1.260	2360	500' R	2950
6	7/.0612	.184	15	120	25	6/64	1.330	2605	500' R	3256
5	7/.0688	.206	15	120	25	6/64	1.380	2770	500' R	3462
4	7/.0772	.232	15	120	25	6/64	1.435	2975	500' R	3718
3	7/.0867	.260	15	120	25	6/64	1.495	3205	500' R	4006
2	7/.0974	.292	15	120	25	6/64	1.565	3480	500' R	4350
1	19/.0664	.352	20	120	30	6/64	1.680	3940	500' R	4925
0	19/.0745	.373	20	120	30	7/64	1.800	4770	500' R	5962
00	19/.0837	.419	20	120	30	7/64	1.895	5315	500' R	6645
000	19/.0940	.470	20	120	30	7/64	2.005	5910	500' R	7387
0000	19/.1055	.528	20	120	30	7/64	2.140	6650	500' R	8312
250,000 CM	37/.0822	.575	25	120	40	8/64	2.310	8010	500' R	10012
300,000	37/.0900	.630	25	120	40	8/64	2.430	8830	500' R	11037
350,000	37/.0973	.681	25	120	40	8/64	2.540	9635	500' R	12043
400,000	37/.1040	.728	25	120	40	8/64	2.640	10365	500' R	12956
450,000	37/.1103	.772	25	120	40	8/64	2.735	11120	500' R	13900
500,000	37/.1162	.815	25	120	40	8/64	2.825	11840	500' R	14800

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. R—Reels

NEW HAVEN CONNECTICUT

RBB 01267



ROCKBESTOS A.V.C.
LEAD SHEATHED
600 VOLT CONTROL CABLE
TYPE AVL—ROCKBESTOS A.V.C.
MAXIMUM OPERATING TEMPERATURE: 110°C (230°F)



APPLICATION

Rockbestos Lead Sheathed Control Cables are used in steel mills, power stations, boiler rooms, automotive, ceramic and glass plants or other industries in which control and signal circuits or control apparatus are exposed to excessive moisture or complete submersion.

SPECIFICATIONS

1. Tinned Copper Conductor
2. Felted Asbestos
3. Varnished Cambric
4. Felted Asbestos
5. Color Coded Cotton Braids
6. Cable Tape
7. Lead Sheath

This cable is NEMA Type AVL with a maximum operating temperature of 110°C (230°F).

Special Coverings

These control cables may be made up with lead sheath and armor as illustrated on page 36 of this catalog. Synthetic sheathing is optional also where temperatures permit.

Conductors

The standard strandings furnished on these Rockbestos A.V.C. Control Cables are 19/22 (No. 9 AWG) and 19/25 (No. 12 AWG) but any desired stranding can be furnished to order and cabled into any required number of conductors.

Insulation

The insulation of the individual conductors is the same type as that on Rockbestos Power Cables with the exception of the braid which is color coded cotton braid for circuit identification. When furnished for single conductor use, the second felted wall is increased to 25 mils beneath the lead sheath.

Impregnated walls of felted asbestos seal the varnished cambric from heat, flame and oxidation. Moistureproof tape is wrapped over the cabled conductors, and a lead sheath is applied to a thickness in accordance with NEMA standard for lead sheathed control cable.

Coding

The individual wires are braided in colors according to the NEMA Standard Color Code for Multi-conductor Cable, which is reproduced below. Special color combinations can be furnished to specification.

NEMA STANDARD COLOR CODE FOR MULTI-CONDUCTOR CONTROL CABLE

Conductors	Base Color	Conductors	Base Color	Tracer	Conductors	Base Color	Tracer
1	Black	7	White	Black	14	Green	White
2	White	8	Red	Black	15	Blue	White
3	Red	9	Green	Black	16	Black	Red
4	Green	10	Orange	Black	17	White	Red
5	Orange	11	Blue	Black	18	Orange	Red
6	Blue	12	Black	White	19	Blue	Red
		13	Red	White			



...Your best buy

ROCKBESTOS A.V.C.
LEAD SHEATHED
600 VOLT CONTROL CABLE
TYPE AVL—ROCKBESTOS A.V.C.

MAXIMUM OPERATING TEMPERATURE: 110°C (230°F)

Nominal Sizes—9 and 12 AWG 1-19 Conductors
(See Opposite Page for General Information)

Standard conductor sizes are No. 9-19/22 and No. 12-19/25 tinned copper, insulated with a 10 mil wall of felted and impregnated asbestos, 30 mil wall varnished cambric insert, another 15 mil wall of felted asbestos and a cotton braid colored according to the NEMA Control Cable Color Code for Multi-conductor Cables, listed on the opposite page. The individual conductors are then cabled with jute fillers where

necessary, a layer of cable tape is applied, and finally a lead sheath is applied for absolute moisture protection. The standard make-up on two conductor construction is to cable the conductors with fillers to make round, but it can also be furnished in parallel construction. Parallel must be specified if desired.

These Rockbestos Type AVL Control Cables can also be made up with No. 14, 16 and 18 AWG conductors.

TABLE MDL (AWG No. 12-19/25) 600 VOLTS TYPE AVL

Number of Conductors	Stranding	Bare Diam. Inches	Lead Thickness	*Nominal Finished Diam. Inches	Approx. Diam. Net Wgt. per 1000'	Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
**1	19/25	.090	3/64	.315	245	500' R	306
***2	19/25	.090	4/64	.605	660	500' R	825
3	19/25	.090	4/64	.645	730	500' R	912
4	19/25	.090	4/64	.705	835	500' R	1045
5	19/25	.090	4/64	.770	930	500' R	1162
6	19/25	.090	5/64	.870	1270	500' R	1587
7	19/25	.090	5/64	.870	1290	500' R	1612
8	19/25	.090	5/64	.940	1425	500' R	1781
9	19/25	.090	5/64	1.010	1565	500' R	1956
10	19/25	.090	5/64	1.090	1700	500' R	2125
11	19/25	.090	5/64	1.090	1720	500' R	2150
12	19/25	.090	5/64	1.125	1800	500' R	2250
13	19/25	.090	5/64	1.155	1880	500' R	2350
14	19/25	.090	5/64	1.185	1960	500' R	2450
15	19/25	.090	6/64	1.260	2380	500' R	2975
16	19/25	.090	6/64	1.285	2455	500' R	3045
17	19/25	.090	6/64	1.330	2575	500' R	3218
18	19/25	.090	6/64	1.350	2640	500' R	3300
19	19/25	.090	6/64	1.350	2665	500' R	3331

TABLE MTL (AWG No. 9-19/22) 600 VOLTS TYPE AVL

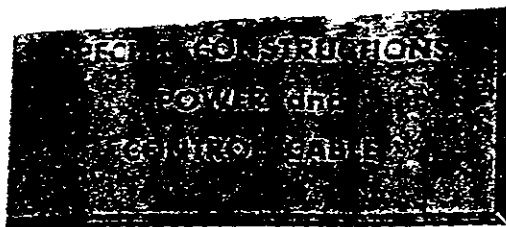
Number of Conductors	Stranding	Bare Diam. Inches	Lead Thickness	*Nominal Finished Diam. Inches	Approx. Diam. Net Wgt. per 1000'	Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
**1	19/22	.127	3/64	.355	300	500' R	375
***2	19/22	.127	4/64	.690	805	500' R	1006
3	19/22	.127	4/64	.750	900	500' R	1125
4	19/22	.127	4/64	.800	1035	500' R	1293
5	19/22	.127	5/64	.910	1400	500' R	1750
6	19/22	.127	5/64	.990	1580	500' R	1975
7	19/22	.127	5/64	.990	1640	500' R	2050
8	19/22	.127	5/64	1.075	1790	500' R	2237
9	19/22	.127	5/64	1.160	1980	500' R	2487
10	19/22	.127	6/64	1.280	2485	500' R	3106
11	19/22	.127	6/64	1.280	2545	500' R	3181
12	19/22	.127	6/64	1.325	2655	500' R	3318
13	19/22	.127	6/64	1.360	2770	500' R	3462
14	19/22	.127	6/64	1.395	2890	500' R	3612
15	19/22	.127	6/64	1.445	3030	500' R	3787
16	19/22	.127	6/64	1.475	3140	500' R	3925
17	19/22	.127	6/64	1.530	3300	500' R	4125
18	19/22	.127	6/64	1.555	3400	500' R	4250
19	19/22	.127	6/64	1.555	3465	500' R	4331

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. R—Reels

**Single conductor has no cotton braid. Second felted wall is increased to 25 mils.

***Can be furnished either parallel or cabled with fillers to make round.

NEW HAVEN, CONNECTICUT



SPECIAL CONSTRUCTIONS FOR ROCKBESTOS POWER AND CONTROL CABLES

This Rockbestos A.V.C. Control Cable illustrated is one of the many multi-conductor cables designed to meet specific requirements in control and power circuits. They are made up as shown or with either lead sheath or armor only as specified and in ratings ranging from 600 to 5000 volts. (Synthetic sheathings may also be specified for control cables where temperatures permit.) This type of cable not only protects operation of circuits exposed to heat and moisture and other severe operating conditions, but also increases the flexibility of wiring systems and makes circuits more easily accessible.

The felted asbestos insulation, impregnated with heat, flame and moisture resisting compounds, withstands high temperatures, corrosive fumes, aging and conductor-heating overloads. The lead sheath protects it from excessive condensation resulting from heating and cooling cycles and complete submersion. The spiral bronze armor eliminates the need for conduit, an important consideration in capacity expansion programs, as the cable can be run in troughs, up vertical risers or over and around obstructions. Its flame and heat resistant structure will also maintain vital alarm and control system circuits for longer periods under exposure to flame than other conventional types.

The cable illustrated on this page is a special construction which is typical of many "specials" designed by Rockbestos to meet severe or unusual operating conditions.

Its construction consists of:

Conduit saving bronze armor covering for protection against abrasion.

Impregnated jute braid to cushion the armor and to protect the lead sheath from mechanical damage.

Lead sheathing for protection against immersion or excessive condensation.

Friction tape to bind the cabled conductors securely together to maintain the lay.

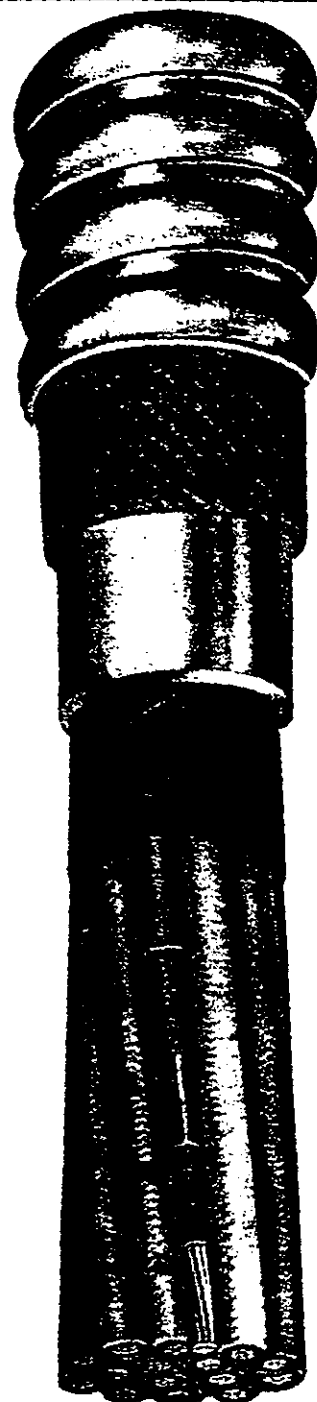
INDIVIDUAL CONDUCTORS

Coded individual cotton braided conductors for easy circuit identification.

Felted asbestos beneath the cotton braid impregnated with heat, flame and moisture resistant compounds.

Varnished cambric for high dielectric strength and added moisture resistance.

Inner wall of felted asbestos to complete the A.V.C. construction serving as a baffle between the varnished cambric and heated conductors.



...Your best buy

ROCKBESTOS
600 VOLT SWITCHBOARD WIRES
NEC TYPE AVB—ROCKBESTOS A.V.C.
and National Electrical Code Type TA
MAXIMUM OPERATING TEMP. 90°C (194°F)

**NEC TYPE AVB
ROCKBESTOS A.V.C.**



Rockbestos A.V.C. Switchboard Wire is designated as National Electrical Code Type AVB, has a maximum operating temperature of 90°C (194°F) and is listed by the Underwriters' Laboratories. It complies with the NEMA Small Wiring for Switchboards Standard and is approved by Factory Mutual Laboratories, switchboard manufacturers and power companies. It is used for switchboards, radio and television transmitters, motor driven rheostats, control panels for motor starters, elevators, fire doors, cranes, induction heating apparatus, oil burning boiler units, etc.

Fine appearance of completed boards is also assured because Rockbestos A.V.C. Switchboard Wire can be bent at right angles without cracking the braid. This desirable characteristic is contributed by the felted asbestos wall of insulation

which acts like a cushion beneath the braid and gives slightly when a sharp bend is made. For this reason boards can be wired faster than with other types of switchboard wire which must be handled carefully if breaks are to be avoided. On switchboards installed in locations where the wiring is exposed to very high temperatures, we recommend the use of our Table C, Rockbestos A.V.C. Lighting Wire, on page 13 in this catalog.

Braid Colors:

Standard finish colors: Gray, black, white, red and blue.

Authorized stock items: Gray.

Other colors or striped patterns can be furnished on special order.

Be sure to specify braid color desired on order.

NEC TYPE TA



Available in both solid and stranded conductors, Rockbestos National Electrical Code Type TA Switchboard Wire is insulated with a seamless Polyvinylchloride sheath, impregnated felted asbestos and covered with a cotton braid finished with flame resistant compound. It strips easily and takes right angle bends without cracking. It is approved for switchboard wiring application only.

This cable is listed by the Underwriters' Laboratories and complies with NEMA Standards.

Braid Colors:

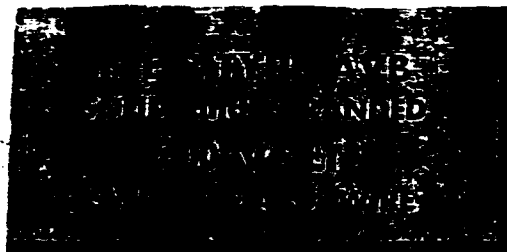
Standard finish colors: Gray, black, white, red and blue.

Authorized stock items: Gray.

Other colors or striped patterns can be furnished on special order.

Be sure to specify braid color desired on order.

NEW HAVEN, CONNECTICUT



ROCKBESTOS A.V.C.
600 VOLT SWITCHBOARD WIRE
NEC TYPE AVB—ROCKBESTOS A.V.C.

TABLE B—SOLID

TABLE BS—STR

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



1. SOLID OR STRANDED TINNED COPPER CONDUCTOR

2. VARNISHED CAMBRIC

3. FELTED ASBESTOS

4. FLAMEPROOF COTTON

FOR SWITCHBOARDS, RADIO AND TELEVISION TRANSMITTERS, MOTOR DRIVEN RHEOSTATS, CONTROL PANELS FOR STARTERS, ELEVATORS, FIRE DOORS, CRANES, INDUCTION HEATING APPARATUS, OIL BURNING BOILER UNITS.

Standard finish colors; Gray, Black, White, Red and Blue Authorized stock items: Gray

TABLE B (Solid)

600 VOLTS

TYPE

Size	Bare Diam. Inches	Nominal Thickness — Mils			*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	A Sh W pe
		VC	Felted Wall	Cotton Braid				
18 AWG	.040	30	20	16	.175	20	500' C	
16	.051	30	20	16	.185	25	500' C	
14	.064	30	20	16	.200	30	500' C	
12	.081	30	20	16	.220	40	500' C	
10	.102	30	20	17	.240	55	500' C	
8	.128	30	20	17	.270	80	500' C	
6	.162	40	30	17	.340	125	500' R	
5	.182	40	30	17	.360	150	500' R	
4	.204	40	30	17	.380	175	500' R	
3	.229	40	30	20	.415	215	500' R	
2	.258	40	30	20	.445	260	500' R	
1	.289	40	40	20	.495	330	500' R	
0	.325	40	40	20	.530	405	500' R	
00	.365	40	40	20	.570	495	500' R	
000	.410	40	40	20	.615	610	500' R	
0000	.460	40	40	20	.665	750	500' R	

TABLE BS (Stranded)

600 VOLTS

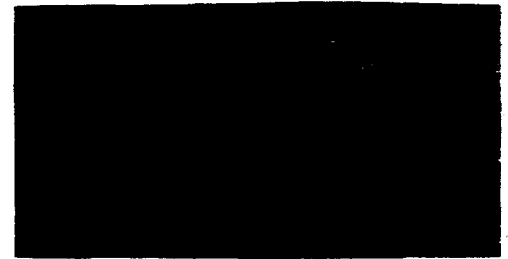
TYPE

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils			*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	S A per
			VC	Felted Wall	Cotton Braid				
16 AWG	7/.0192	.058	30	20	16	.190	25	500' C	
14	7/.0242	.073	30	20	16	.205	35	500' C	
12	7/.0305	.092	30	20	16	.225	45	500' C	
10	7/.0385	.116	30	20	17	.250	60	500' C	
8	7/.0486	.146	30	20	17	.280	80	500' C	
6	7/.0612	.184	40	30	17	.360	130	500' R	
5	7/.0688	.206	40	30	17	.380	150	500' R	
4	7/.0772	.232	40	30	20	.415	185	500' R	
3	7/.0867	.260	40	30	20	.440	225	500' R	
2	7/.0974	.292	40	30	20	.475	280	500' R	
1	19/.0664	.332	40	40	20	.535	345	500' R	
0	19/.0745	.375	40	40	20	.575	420	500' R	
00	19/.0837	.419	40	40	20	.620	515	500' R	
000	19/.0940	.470	40	40	20	.670	630	500' R	
0000	19/.1055	.528	40	40	20	.730	780	500' R	

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process or manufacture. *C—Cotton, R



ROCKBESTOS A.V.C.
600 VOLT SWITCHBOARD HINGE CABLE
NEC TYPE AVB—ROCKBESTOS A.V.C.
MAXIMUM OPERATING TEMP. 90°C (194°F)



1. STRANDED TINNED COPPER CONDUCTOR

2. FELTED ASBESTOS

3. VARNISHED CAMBRIC

4. FELTED ASBESTOS

5. FLAMEPROOF COTTON BRAID

FOR HINGE AND JUMPER CONNECTIONS ON SWINGING INSTRUMENT AND SYNCHRONIZING METER PANELS, MOTOR LEADS AND APPLICATIONS SUCH AS LISTED UNDER TABLES B AND BS.

As a companion wire to Rockbestos Switchboard Wire we offer this heat, flame and moisture resisting flexible Hinge Cable. Designed primarily for hinge or jumper connections on swinging instrument and synchronizing meter panels, etc., it is also used in various applications in electrical apparatus to maintain dependable performance. It may also be used for conduit wiring where conditions are not severe enough to require an asbestos braid.

Standard construction employs a flexible stranded, tinned copper conductor, insulated with a felted wall of asbestos, an insert of varnished cambric tape, another wall of felted asbestos, impregnated with flameproof and moisture resisting insulating compounds, and a cotton braid finished with flameproof compound.

The diameters of Rockbestos Hinge Cable are approximately the same as those of other Rockbestos Switchboard Wires, and braid finishes are identical to assure matching appearance when used on the same board.

Rockbestos A. V. C. Hinge Cable is designated as National Electrical Code Type AVB, has a maximum operating temperature of 90°C (194°F) and is listed by the Underwriters' Laboratories. It complies with the NEMA Small Wiring for Switchboards Standard and is approved by Factory Mutual Laboratories, switchboard manufacturers and power companies.



Showing application of Rockbestos Table BH 600 Volt Hinge Cable to swinging panel

Standard finish colors: Gray, black, white, red and blue.

Authorized stock items: Gray.

Be sure to specify braid color desired on order.

TABLE BH

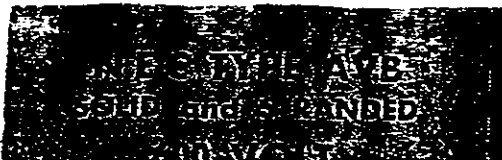
600 VOLTS

TYPE AVB

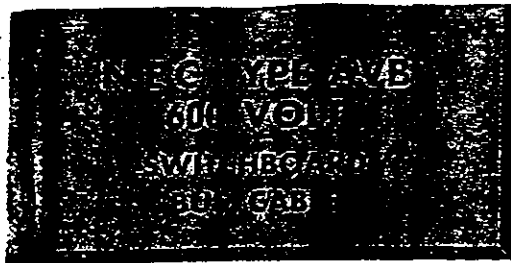
Size	Stranding Tinned	Bare Diam. Inches	Nominal Thickness — Mils				*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall	Cotton Braid				
**18 AWG	16/.010	.045	10	30	15	16	.190	25	500' C	31
**16	26/.010	.059	10	30	15	16	.205	30	500' C	36
14	41/.010	.075	10	30	15	16	.220	35	500' C	41
12	65/.010	.095	10	30	15	17	.240	45	500' C	51
10	104/.010	.120	10	30	15	17	.265	60	500' C	66
8	133/.0112	.167	10	30	15	17	.315	90	500' C	96

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. *C—Coils
 **Not listed in National Electrical Code.

RBB 01273



ROCKBESTOS A.V.C. 600 VOLT SWITCHBOARD WIRE



ROCKBESTOS A.V.C. 600 VOLT SWITCHBOARD BUS CABLE NEC TYPE AVB—ROCKBESTOS A.V.C.

MAXIMUM OPERATING TEMP. 90°C (194°F)



1. STRANDED PLAIN COPPER CONDUCTOR

2. FELTED ASBESTOS

3. VARNISHED CAMBRIC

4. FELTED ASBESTOS

5. FLAMEPROOF COTTON BRAID

The general use of Rockbestos A.V.C. Switchboard Wire and Hinge Cable by switchboard builders, power companies, industrial plants, etc. brought forth requests for a cable with the same characteristics and finish for bus circuits. For this application we designed the cable illustrated above, similar in construction to our A.V.C. Power Cable but covered with a cotton braid instead of asbestos yarn.

This cable may also be used for conduit installations where Rockbestos A.V.C. Power Cable diameters run too large. It is National Electrical Code Type AVB, has a maximum operating temperature of 90°C (194°F), is listed by Underwriters' Laboratories, and complies with NEMA Standards.

Standard finish colors: Black, white, red, blue and gray.

TABLE P

600 VOLTS

TYPE AVB

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils				*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			1st Felted Wall	VC Insert	2nd Felted Wall	Cotton Braid				
**18 AWG	7/.0152	.046	10	30	15	16	.190	25	500' C	31
**16	7/.0192	.058	10	30	15	16	.200	30	500' C	36
14	7/.0242	.075	10	30	15	16	.215	35	500' C	41
12	7/.0305	.092	10	30	15	17	.240	45	500' C	51
10	7/.0385	.116	10	30	15	17	.260	60	500' R	66
8	7/.0486	.146	10	30	15	17	.290	85	500' R	91
6	7/.0612	.184	15	30	20	17	.350	125	500' R	156
5	7/.0688	.206	15	30	20	17	.370	150	500' R	187
4	7/.0772	.232	15	30	20	20	.405	190	500' R	237
3	7/.0867	.260	15	30	20	20	.430	220	500' R	275
2	7/.0974	.292	15	30	20	20	.465	275	500' R	345
1	19/.0664	.352	20	30	30	20	.555	345	500' R	431
0	19/.0745	.375	20	30	30	20	.575	450	500' R	557
00	19/.0837	.419	20	30	30	20	.620	515	500' R	643
000	19/.0940	.470	20	30	30	20	.670	650	500' R	787
0000	19/.1055	.528	20	30	30	20	.750	780	500' R	975
250,000 CM	37/.0822	.575	25	40	40	20	.825	945	500' R	1181
300,000	37/.0900	.650	25	40	40	25	.890	1145	500' R	1431
350,000	37/.0975	.681	25	40	40	25	.945	1310	500' R	1657
400,000	37/.1040	.728	25	40	40	25	.990	1480	500' R	1850
450,000	37/.1105	.772	25	40	40	25	1.035	1645	500' R	2056
500,000	37/.1162	.813	25	40	40	25	1.075	1810	500' R	2262
550,000	61/.0950	.855	30	40	40	25	1.125	1990	500' R	2487
600,000	61/.0992	.893	30	40	40	25	1.165	2165	500' R	2706
650,000	61/.1052	.929	30	40	40	25	1.200	2330	500' R	2912
700,000	61/.1071	.964	30	40	40	25	1.235	2490	500' R	3112
750,000	61/.1109	.998	30	40	40	25	1.270	2655	500' R	3318
800,000	61/.1145	1.031	30	40	40	25	1.305	2818	500' R	3522
850,000	61/.1180	1.062	30	40	40	25	1.335	2980	500' R	3725
900,000	61/.1215	1.095	30	40	40	25	1.365	3140	500' R	3925
950,000	61/.1248	1.125	30	40	40	25	1.395	3505	500' R	4151
1,000,000	61/.1280	1.152	30	40	40	25	1.425	3465	500' R	4551
1,250,000	91/.1172	1.289	30	50	50	32	1.615	4540	500' R	5425
1,500,000	91/.1284	1.412	30	50	50	32	1.740	5160	500' R	6450
1,750,000	127/.1174	1.526	30	50	50	32	1.850	6000	500' R	7500
2,000,000	127/.1255	1.652	30	50	50	32	1.960	6740	500' R	8425

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. *C—Coils, R—Reels
**Not listed in National Electrical Code.



MAXIMUM OPERATING TEMP. 90°C (194°F)

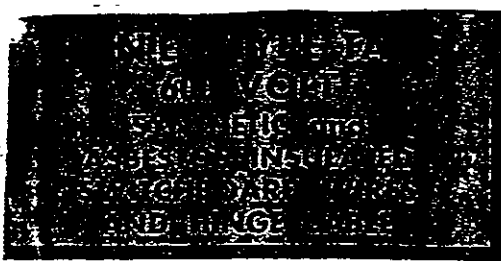


1. STRANDED TINNED COPPER CONDUCTOR 2. VARNISHED CAMBRIC 3. FELTED ASBESTOS 4. FLAMEPROOF COTTON BRAID

This Rockbestos A.V.C. 600 volt Headlight wire is designated as National Electrical Code Type AVB and has a maximum operating temperature of 90°C (194°F).

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils			Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			VC	Felted Wall	Cotton Braid				
16 AWG	19/.0117	.059	30	20	16	.195	25	500' C	31
14	19/.0147	.074	30	20	16	.210	30	500' C	36
12	19/.0185	.093	30	20	16	.225	45	500' C	41
10	19/.0234	.117	30	20	17	.255	60	500' C	66

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. †C—Coils



ROCKBESTOS A.V.C.
600 VOLT SWITCHBOARD WIRES
AND FLEXIBLE HINGE CABLE

National Electrical Code Type TA

TABLE XB, SOLID—TABLE XBS, STRANDED
TABLE XBH, FLEXIBLE STRANDED HINGE CABLE



1. SOLID OR STRANDED TINNED COPPER CONDUCTOR 2. SYNTHETIC RESIN 3. FELTED ASBESTOS 4. FLAMEPROOF COTTON BRAID

FOR SWITCHBOARDS, CONTROL PANELS AND HINGE CONNECTIONS

Standard finish colors: Gray, black, white, red and blue. Authorized stock items: Gray (in tables XB and XBS only).

TABLE XB (Solid)

600 VOLTS

TYPE TA

Size	Bare Diam. Inches	Minimum Synthetic Resin Mils	Nominal Thickness—Mils		*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			Felted Wall	Cotton Braid				
**18 AWG	.040	20	20	16	.160	20	500' C	26
**16	.051	20	20	16	.170	25	500' C	31
14	.064	20	20	16	.185	30	500' C	36
12	.081	20	20	16	.200	40	500' C	46
10	.102	20	20	16	.225	55	500' C	61
8	.128	20	20	17	.250	75	500' C	81
6	.162	30	25	17	.315	120	500' R	150
5	.182	30	25	17	.335	145	500' R	181
4	.204	30	25	17	.360	175	500' R	218
3	.229	30	25	17	.385	210	500' R	262
2	.258	30	25	20	.420	260	500' R	325
1	.289	40	30	20	.480	350	500' R	412
0	.325	40	30	20	.515	405	500' R	506
00	.365	40	30	20	.555	495	500' R	618
000	.410	40	30	20	.600	605	500' R	756
0000	.460	40	30	20	.650	750	500' R	937

TABLE XBS (Stranded)

600 VOLTS

TYPE TA

Size	Stranding	Bare Diam. Inches	Minimum Synthetic Resin Mils	Nom. Thickness — Mils		*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
				Felted Wall	Cotton Braid				
**18 AWC	7/0152	.046	20	20	16	.165	20	500' C	26
**16	7/0192	.058	20	20	16	.180	25	500' C	31
14	7/0242	.073	20	20	16	.195	32	500' C	38
12	7/0305	.092	20	20	16	.215	41	500' C	47
10	7/0385	.116	20	20	17	.240	56	500' C	65
8	7/0486	.146	20	20	17	.270	79	500' C	85
6	7/0612	.184	30	25	17	.340	125	500' R	156
5	7/0688	.206	30	25	17	.365	150	500' R	187
4	7/0772	.232	30	25	17	.395	180	500' R	225
3	7/0867	.260	30	25	20	.425	240	500' R	300
2	7/0974	.292	30	25	20	.455	265	500' R	351
1	19/0664	.332	40	30	20	.525	345	500' R	451
0	19/0745	.373	40	30	20	.565	420	500' R	525
00	19/0837	.419	40	30	20	.610	515	500' R	643
000	19/0940	.470	40	30	20	.660	635	500' R	793
0000	19/1055	.528	40	30	20	.720	780	500' R	975

TABLE XBH (Flexible Stranded)

600 VOLTS

TYPE TA

Size	Stranding	Bare Diam. Inches	Minimum Synthetic Resin Mils	Felted Wall	Cotton Braid	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
**18 AWG	16/010	.045	20	20	16	.165	19.5	500' C	25
**16	26/010	.059	20	20	16	.180	24.5	500' C	30
14	41/010	.075	20	20	16	.195	31.0	500' C	37
12	65/010	.095	20	20	16	.215	41.2	500' C	47
10	104/010	.120	20	20	17	.245	56.9	500' C	65
8	133/0111	.167	20	20	17	.290	83.9	500' C	89
6	133/0140	.210	30	25	17	.365	130	500' R	162
5	133/0158	.237	30	25	20	.395	160	500' R	200
4	133/0177	.266	30	25	20	.425	190	500' R	237
3	133/0199	.299	30	25	20	.460	230	500' R	287
2	133/0223	.335	30	25	20	.495	280	500' R	350
1	259/0180	.378	40	30	20	.570	360	500' R	450
0	259/0202	.424	40	30	20	.615	435	500' R	543
00	259/0227	.477	40	30	20	.670	555	500' R	668
000	259/0255	.536	40	30	20	.730	660	500' R	825
0000	259/0286	.601	40	30	20	.795	810	500' R	1012

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process or manufacture. *C—Coils, R—Reels
**Not listed in National Electrical Code.



ROCKBESTOS ALL-ASBESTOS

RHEOSTAT WIRES FLEXIBLE CORDS

APPARATUS CABLES FIXTURE WIRES

NEC TYPE AA

MAX. OPERATING TEMP.
200°C (392°F)

The Rockbestos 300 volt All-asbestos constructions listed on pages 44 and 45. Rheostat Wires and Extra Flexible Apparatus Cable, are impregnated with heat and flame resisting compound in both the felted asbestos walls and the asbestos braid. This insures the highest possible re-

sistance to heat. These impregnated all-asbestos constructions will not burn or support combustion even when exposed to an arc. They have typical Rockbestos resistance to fumes, grease, or oil. From the constructions listed on these pages you may select either solid, stranded, flexible stranded or extra flexible stranded conductors to meet your requirements.

NEC TYPE AIA

MAX. OPERATING TEMP.
125°C (257°F)

Pages 46-48 list Rockbestos all-asbestos constructions in Rheostat, Power and Apparatus Wires and Cables for 600 volt service. They are recommended for open wiring in high ambient dry locations. The impregnated asbestos insula-

tions used will not deteriorate under constant high temperatures, and they are resistant to corrosive fumes, flame, moisture, grease and oil. For applications requiring more flexible conductors, extra flexible strandings may be specified for maximum flexibility.

NEC TYPE AF

MAX. OPERATING TEMP.
150°C (302°F)

Page 50 in this section lists both plain and braided fixture wires for 300 volt service. In fixtures where the wiring is concealed in stems or brackets, the PLAIN type is recommended. It has no braid. Made in black and white to indicate polarity.

When wiring is exposed, such as on chain pendant fixtures, the BRAIDED wire is recommended. Made in solid color braids and solid color with marker thread to indicate polarity.

Rockbestos Heat Resisting Fixture Wires are approved by the Underwriters' Laboratories for lighting fixtures and bear their labels. The impregnated asbestos insulation withstands the high socket temperatures developed by high wattage or flush type fixtures without drying out or becoming hard or brittle. This type of insulation also eliminates fire hazard as it is resistant to flame as well as heat. Furthermore, it is moisture resisting, an important factor where fixtures hang in damp or humid locations.

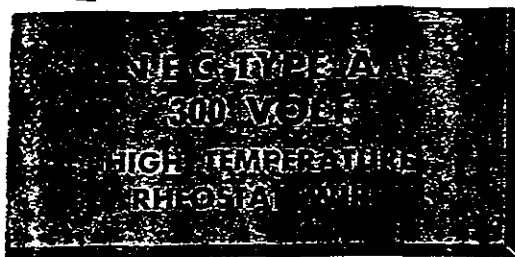
NEC TYPE AFC AND AFPD

MAX. OPERATING TEMP.
150°C (302°F)

The 300 volt Flexible Cords listed on pages 49 and 51 are useful for lighting pendants and for apparatus and test leads where non-deteriorating heat resisting cord is required. The constructions illustrated on these two pages offer a selection of either cotton or asbestos braid.

Article 410, Section 414.4, of the National Electrical Code stipulates that fixtures operating at not more than 300 volts between conductors, which may be subject to temperatures in excess of 90°C (194°F), must be wired with Type AF fixture wire, Type AFC or AFPO or AFPD. The flexible

cords on page 51 are approved by Underwriters' Laboratories for lighting fixture wiring under the type symbols shown. The 300 volt All-asbestos Flexible Cords shown on page 49 were originally developed for cab and gauge lighting circuits of steam locomotives to replace rubber insulated cords which failed to stand up under exposure to heat and vibration. Its heavy duty asbestos braid construction made it ideal for pendant lighting fixtures located in high temperature locations in steel mills, boiler rooms, kilns and glass plants requiring a heavy duty flexible cord which would operate without failure under exposure to heat, corrosive fumes, oil, grease, and fire hazard.

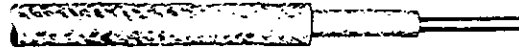


ROCKBESTOS ALL-ASBESTOS 300 VOLT HIGH TEMPERATURE RHEOSTAT WIRE

MAXIMUM OPERATING TEMP. 200°C (392°F)



1. SOLID OR STRANDED PLAIN COPPER CONDUCTORS



2. FELTED ASBESTOS

3. ASBESTOS BRAID

FOR GRID JUMPER CONNECTIONS AND CONNECTIONS FROM GRIDS TO FACEPLATES, INFRA-RED DRYERS, OVENS, ELECTRIC STOVE BUS CIRCUITS, ELEMENT LEADS ON WELL TYPE ANNEALING FURNACES AND OPEN WIRING EXPOSED TO EXTREMELY HIGH TEMPERATURES, CORROSIVE FUMES, GREASE, OIL OR FIRE HAZARD.

CONDUCTORS: TABLE A-300 (SOLID) TABLE R-300 (STRANDED) TABLE RF-300 (FLEXIBLE STRANDED)

Standard braid finishes are white and black—colors on special order.

TABLE A-300 (Solid)

300 VOLTS

TYPE AA

Size	Bare Diam. Inches	Nominal Thickness—Mils		*Nominal Finished Diam. 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	17.9	500' C	22
**16	.051	30	40	.195	22.0	500' C	28
14	.064	30	40	.205	27.9	500' C	33
12	.081	30	40	.225	37.5	500' C	43
10	.102	30	40	.245	51.7	500' C	57
8	.128	30	40	.270	73.5	500' C	79

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. *C—Coils

TABLE R-300 (Stranded)

300 VOLTS

TYPE AA

Size	Stranding	Bare Diam. Inches	Nominal Thickness—Mils		*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			Felted Wall	Asbestos Braid				
**18 AWG	7/.0152	.046	30	40	.190	18.2	500' C	24
**16	7/.0192	.058	30	40	.200	22.8	500' C	28
14	7/.0242	.073	30	40	.215	29.3	500' C	35
12	7/.0305	.092	30	40	.235	39.3	500' C	45
10	7/.0385	.116	30	40	.260	54.2	500' C	60
8	7/.0486	.146	30	40	.290	77.3	500' C	83

TABLE RF-300 (Flexible Stranded)

300 VOLTS

TYPE AA

Size	Stranding	Bare Diam. Inches	Felted Wall	Asbestos Braid	*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
**18 AWG	16/.010	.045	30	40	.185	18.1	500' C	24
**16	26/.010	.059	30	40	.200	22.8	500' C	28
14	41/.010	.073	30	40	.215	29.6	500' C	35
12	63/.010	.095	30	40	.235	40.3	500' C	46
10	104/.010	.120	30	40	.260	55.6	500' C	61
8	153/.0111	.167	30	40	.307	82.7	500' C	88

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. *C—Coils
**Not listed in National Electrical Code.



ROCKBESTOS ALL-ASBESTOS 300 VOLT EXTRA FLEXIBLE APPARATUS CABLE

National Electrical Code Type AA
MAXIMUM OPERATING TEMP. 200°C (392°F)

FOR MOVIE PROJECTORS, SUN-ARCS, SPOT LIGHTS, EFFECT MACHINES, HIGH TEMPERATURE LIGHTING EQUIPMENT, FURNACES, LAB OVENS, ETC.



1. ROPE LAY STRANDED PLAIN COPPER CONDUCTOR 2. FELTED ASBESTOS 3. ASBESTOS BRAID

This cable was originally developed as "Motion Picture Cable" for specific use in motion picture projector lamp houses and sun-arc lamps, but its use has been extended to product and industrial applications requiring extra-flexible insulated conductors that will resist the baking effects of high temperatures.

The felted asbestos insulation and the asbestos braid are both impregnated with heat and flame resisting compound to assure the highest possible resistance to heat and maximum

flexibility. The braid finish is white.

This cable is National Electrical Code Type AA, listed by the Underwriters' Laboratories, and has a maximum operating temperature of 200°C (392°F). It will remain flexible under continuous operation at rated temperature, doesn't burn or support combustion even when exposed to an arc, and has typical Rockbestos resistance to fumes, grease or oil.

Standard finish colors: Black, white, red, blue and gray.
Authorized stock items: White:

TABLE W

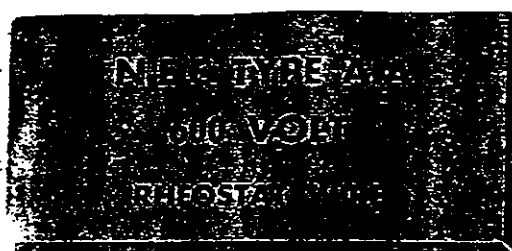
300 VOLTS

TYPE AA

Size	Stranding	Bare Diam. Inches	Nominal Thickness — Mils		*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			Felted Wall	Asbestos Braid				
**18 AWG	41/34	.047	30	40	.190	17.5	500' C	23
**16	65/34	.061	30	40	.205	22.3	500' C	28
14	104/34	.077	30	40	.220	29.7	500' C	36
12	259/36	.102	30	40	.245	40.6	500' C	47
10	413/36	.130	30	40	.270	57.3	500' C	63
8	665/36	.165	30	40	.305	74.5	500' C	80
6	1050/36	.205	40	45	.375	115	500' C	121
4	1666/36	.275	40	45	.445	170	250' C	176
2	2646/36	.350	40	45	.520	255	200' C	262
1	3532/36	.400	60	45	.610	330	200' C	337
0	4214/36	.440	60	45	.650	410	200' C	417
00	5292/36	.500	60	45	.710	500	200' C	507
000	6713/36	.570	60	45	.780	630	200' C	637
0000	8512/36	.640	60	45	.850	780	200' C	787

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. †C—Coils
**Not listed in National Electrical Code.

NEW HAVEN CONNECTOR



ROCKBESTOS ALL-ASBESTOS 600 VOLT RHEOSTAT WIRE

National Electrical Code Type AIA

MAXIMUM OPERATING TEMP. 125°C (257°F)



1. SOLID PLAIN COPPER CONDUCTOR

2. FELTED ASBESTOS

3. ASBESTOS BRAID

FOR GRID JUMPER CONNECTIONS AND CONNECTIONS FROM GRIDS TO FACEPLATES. INFRA-RED DRYERS, OVENS, ELECTRIC STOVE BUS CIRCUITS, ELEMENT LEADS ON WELL TYPE ANNEALING FURNACES AND OPEN WIRING EXPOSED TO EXTREMELY HIGH TEMPERATURES, CORROSIVE FUMES, GREASE, OIL OR FIRE HAZARD.

Asbestos rheostat wire was originally produced by putting two or three braids of asbestos yarn on the wire and finishing each braid with compound. This had several disadvantages. For example, its moisture resistance was very low due to the comparatively open covering so that many engineers considered that spaced wiring was necessary in order to prevent possible leakage under damp conditions. The labor cost of doing this type of wiring is high.

Another disadvantage—though really more of an annoyance—was that in working with this wire a good deal of the compound flaked off and continued to do so after the installation was completed, spoiling the appearance of an otherwise nice job.

The Rockbestos development of the felted and impregnated wall of asbestos insulation was a distinct improvement. Instead of a relatively open covering on the wire, the asbestos is applied in the form of a homogeneous insulation. The dielectric strength is thereby increased. Next, the impregnating compound is an integral part of the insulating wall, not

painted on after the wall is formed. That means that, through repeated heating and cooling cycles, the compound can never fall away from the asbestos. The dielectric strength and moisture resistance of Rockbestos Rheostat Wire are, therefore, practically constant. And there is none of the usual flaking when working with Rockbestos Rheostat Wire and Cable, with either white or black braid.

Because of its comparatively high moisture resistance Rockbestos Rheostat Wire may be bunch-wired with safety, and it is also recommended for open wiring carrying less than 600 volts which is subject to high temperatures or rotting, corrosive fumes. For a 300 volt construction of the same type refer to page 44.

This wire is National Electrical Code Type AIA, maximum operating temperature 125°C (257°F), and is listed by the Underwriters' Laboratories.

Standard finish colors: Black, white, red, blue and gray.

Authorized stock items: Black (white also in sizes nos. 6, 8, 10, 12 and 14).

TABLE A

600 VOLTS

TYPE AIA

Size	Bare Diam. Inches	Nominal Thickness—Mils		*Nominal Finished Diam. 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	21.9	500' C	27
**16	.051	30	40	.195	26.1	500' C	32
14	.064	30	40	.205	31.6	500' C	37
12	.081	30	40	.225	41.5	500' C	47
10	.102	30	40	.245	55.9	500' C	61
8	.128	30	40	.270	78.3	500' C	84
6	.162	40	40	.325	115	500' R	143
5	.182	40	45	.355	140	500' R	175
4	.204	40	45	.375	165	500' R	206
3	.229	40	45	.400	205	500' R	256
2	.258	40	45	.430	255	500' R	318
1	.289	60	45	.500	320	500' R	400
0	.325	60	45	.535	395	500' R	493
00	.365	60	45	.575	485	500' R	606
000	.410	60	45	.620	600	500' R	750
0000	.460	60	45	.670	745	500' R	931

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. †C—Coils, R—Reels
**Not listed in National Electrical Code.



ROCKBESTOS ALL-ASBESTOS 600 VOLT POWER and RHEOSTAT CABLE

National Electrical Code Type AIA
MAXIMUM OPERATING TEMP. 125°C (257°F)



1. STRANDED PLAIN COPPER CONDUCTOR

2. FELTED ASBESTOS

3. ASBESTOS BRAID

FOR GRID JUMPER CONNECTIONS AND CONNECTIONS FROM GRIDS TO FACEPLATES. INFRA-RED DRYERS, OVENS. ELECTRIC STOVE BUS CIRCUITS, ELEMENT LEADS ON WELL TYPE ANNEALING FURNACES AND OPEN WIRING EXPOSED TO EXTREMELY HIGH TEMPERATURES, CORROSIVE FUMES, GREASE, OIL OR FIRE HAZARD.

Standard finish colors: Black, white, red, blue and gray.
Authorized stock items: Black (white also in sizes nos. 12 and 14).

For 300 volt construction refer to page 44. Table R-300
Rockbestos High Temperature Rheostat Wire.

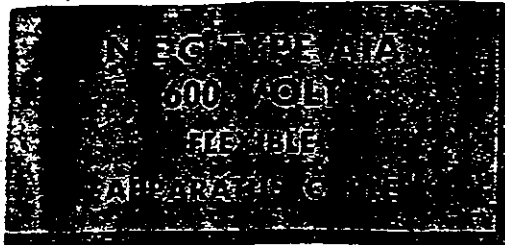
TABLE R

600 VOLTS

TYPE AIA

Size	Stranding	Bare Diam. Inches	Nominal Thickness—Mils		*Nominal Finished Diam. Inches	Approx. Net Wgt. in lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			Felted Wall	Asbestos Braid				
**18 AWG	7/.0152	.046	30	40	.190	22.4	500' C	27
**16	7/.0192	.058	30	40	.200	27.1	500' C	33
14	7/.0242	.073	30	40	.215	33.1	500' C	39
12	7/.0305	.092	40	40	.255	47.5	500' C	53
10	7/.0385	.116	40	40	.280	63.5	500' C	69
8	7/.0486	.146	40	40	.310	88.1	500' C	94
6	7/.0612	.184	60	45	.395	130	500' R	162
5	7/.0688	.206	60	45	.420	155	500' R	193
4	7/.0772	.232	60	45	.445	185	500' R	231
3	7/.0867	.260	60	45	.470	225	500' R	281
2	7/.0974	.292	60	45	.505	270	500' R	337
1	19/.0664	.332	75	45	.575	345	500' R	431
0	19/.0745	.373	75	45	.615	420	500' R	525
00	19/.0837	.419	75	45	.660	520	500' R	650
000	19/.0940	.470	75	45	.710	635	500' R	793
0000	19/.1055	.528	75	45	.770	785	500' R	981
250.000 CM	37/.0822	.575	90	45	.845	920	500' R	1150
300.000	37/.0900	.630	90	45	.900	1080	500' R	1350
350.000	37/.0973	.681	90	45	.955	1245	500' R	1556
400.000	37/.1040	.728	90	45	1.000	1405	500' R	1756
450.000	37/.1103	.772	90	45	1.045	1570	500' R	1962
500.000	37/.1162	.813	90	45	1.085	1730	500' R	2162
550.000	61/.0950	.855	105	45	1.155	1890	500' R	2362
600.000	61/.0992	.895	105	45	1.195	2080	500' R	2600
650.000	61/.1032	.929	105	45	1.230	2240	500' R	2800
700.000	61/.1071	.964	105	45	1.265	2415	500' R	3018
750.000	61/.1109	.998	105	45	1.300	2560	500' R	3200
800.000	61/.1145	1.031	105	45	1.335	2730	500' R	3412
850.000	61/.1180	1.062	105	45	1.365	2890	500' R	3612
900.000	61/.1215	1.093	105	45	1.395	3050	500' R	3812
950.000	61/.1248	1.123	105	45	1.425	3215	500' R	4018
1,000.000	61/.1280	1.152	105	45	1.455	3375	500' R	4218

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. †C—Coils, R—Reels
**Not listed in National Electrical Code.



ROCKBESTOS ALL-ASBESTOS 600 VOLT FLEXIBLE APPARATUS CABLE

MAXIMUM OPERATING TEMP. 125°C (257°F)



1. FLEXIBLE TINNED COPPER CONDUCTOR

2. FELTED ASBESTOS

3. ASBESTOS BRAID

FOR FLEXIBLE LEADS AND CONNECTIONS OF APPARATUS SUCH AS LISTED UNDER TABLES "A" AND "R"—OVENS, FURNACES, DRYERS, AUTOMOTIVE BUS IMMERSION HEATER LEADS, BATTERY LEADS AND ENGINE COMPARTMENT WIRING

This cable is recommended wherever flexible leads or connections must be used in open-wired high temperature installations.

Steel mills sometimes use this cable for motor leads exposed to heat where the possibility of a moisture condition is remote. It will not deteriorate under constant high ambient temperatures and is highly resistant to corrosive fumes, flame, grease and oil, characteristics which make it ideal for jumper leads, etc. (For high dielectric strength and moisture resistance see Rockbestos A.V.C. Motor Lead and Apparatus Cable on page 18.)

Automotive bus manufacturers and operators use it for en-

gine compartment wiring and leads for batteries, crank case and radiator immersion heaters because of its high resistance to heat and flame. (For smaller diameter cable for these applications and diesel locomotive control circuit wiring inquire about special Type ACA engine compartment or control cables.)

This cable is National Electrical Code Type AIA, listed by the Underwriters' Laboratories. Maximum operating temperature is 125°C (257°F). Standard finish colors: Black, white, red, blue and gray. This cable can be made up with extra flexible stranded tinned conductor if required.

For 500 volt construction refer to page 44, Table RF-500.

TABLE RF

600 VOLTS

TYPE AIA

Size	Stranding	Bare Diam. Inches	Nominal Thickness—Mils		*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			Felted Wall	Asbestos Braid				
**18 AWG	16/.010	.045	30	40	.185	22.5	500' C	27
**16	26/.010	.059	30	40	.200	26.8	500' C	32
14	41/.010	.075	30	40	.215	33.2	500' C	39
12	65/.010	.095	40	40	.255	48.9	500' C	54
10	104/.010	.120	40	40	.280	65.0	500' C	71
8	133/.0111	.167	40	40	.330	93.7	500' C	99
6	133/.0140	.210	60	45	.420	135	500' R	168
5	133/.0158	.237	60	45	.450	165	500' R	206
4	133/.0177	.266	60	45	.480	195	500' R	243
3	133/.0199	.299	60	45	.510	235	500' R	293
2	133/.0223	.355	60	45	.545	285	500' R	356
1	259/.0180	.378	75	45	.620	360	500' R	450
0	259/.0202	.424	75	45	.665	445	500' R	556
00	259/.0227	.477	75	45	.720	540	500' R	675
000	259/.0255	.536	75	45	.780	665	500' R	831
0000	259/.0286	.601	75	45	.845	810	500' R	1012
250,000 CM	427/.0242	.653	90	45	.925	985	500' R	1231
300,000	427/.0265	.716	90	45	.990	1120	500' R	1400
350,000	427/.0286	.772	90	45	1.045	1330	500' R	1662
400,000	427/.0306	.826	90	45	1.100	1460	500' R	1825
450,000	427/.0325	.878	90	45	1.150	1690	500' R	2112
500,000	427/.0342	.923	90	45	1.195	1805	500' R	2256

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. †C—Coils, R—Reels
**Not listed in National Electrical Code.



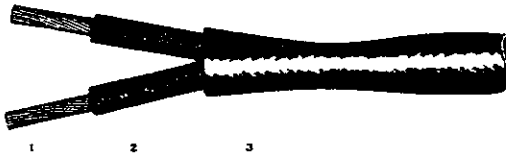
ROCKBESTOS ALL-ASBESTOS

300 VOLT

FLEXIBLE CORDS

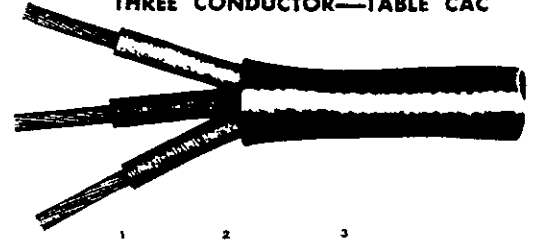
MAXIMUM OPERATING TEMP. 125°C (257°F)

TWO CONDUCTOR—TABLE CA



1. STRANDED PLAIN COPPER CONDUCTOR

THREE CONDUCTOR—TABLE CAC



2. FELTED ASBESTOS

3. ASBESTOS BRAID

FOR RAILWAY LOCOMOTIVE CAB AND GAUGE LIGHTING CIRCUITS, PENDANT LIGHTING FIXTURES, BLUEPRINT MACHINES, SPOT AND FLOODLIGHTS, LEADS FOR FURNACES, OVENS, APPARATUS, ETC.

Rockbestos All-Asbestos Cord was originally developed for cab and gauge lighting circuits of steam locomotives to replace rubber insulated cords which failed to stand up under heat and vibration. Because of this use it is widely known in the railroad field as Cab Cord.

There is no rubber whatever in this construction. Instead the basis of the insulation is asbestos, applied to the wire by our unique insulating process and impregnated and compressed to form the felted asbestos wall. It meets a demand for a heat-resisting, fireproof, permanently flexible cord which will operate without failure under exposure to heat, corrosive fumes, oil, grease or fire hazard.

Because it will not dry up and crack under heat, it makes an ideal heavy duty cord for pendant lighting fixtures located in high temperature areas in steel mills, boiler rooms, kilns, glass plants, etc. It is also used for leads in heat-developing

apparatus and for the wiring of blueprint machines, flood and spot lights and other high wattage units which develop temperatures that are ruinous to other types of insulated wires. For applications in which moisture may be encountered, use Rockbestos A.V.C. Flexible Cord described on page 19. If a perfectly round construction is desired it can be made up with fillers on special order.

If required for AFPD applications it can be made with polarized conductors on special order.

Standard finish colors: Black, white, red, blue and gray. Authorized stock items: Black.

RAILROADS NOTE: For lighting circuits in locomotives equipped with train control apparatus we recommend using Rockbestos A.V.C. Flexible Cord because of its higher insulation resistance.

TABLE CA

300 VOLTS

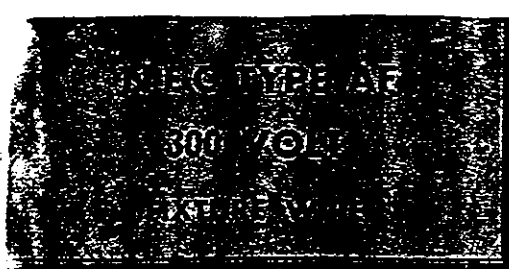
Size	Stranding	Bare Diam. Inches	Nominal Thickness—Mils		*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			Felted Wall	Asbestos Braid				
18 AWG	16/30	.045	30	40	.285	40	500' C	46
16	26/30	.059	30	40	.310	50.6	500' C	56
14	41/30	.075	30	45	.350	63.8	500' C	69
12	65/30	.095	40	45	.430	95.2	500' C	101
10	104/30	.120	40	45	.480	130	500' C	136

TABLE CAC

300 VOLTS

Size	Stranding	Bare Diam. Inches	Nominal Thickness—Mils		*Nominal Finished Diam. Inches	Approx. Net Wgt. in Lbs. per 1000'	†Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
			Felted Wall	Asbestos Braid				
18 AWG	16/30	.045	30	40	.300	52	500' C	58
16	26/30	.059	30	40	.330	67.2	500' C	73
14	41/30	.075	30	45	.370	86.1	500' C	92
12	65/30	.095	40	45	.455	130	500' C	136
10	104/30	.120	40	45	.510	180	500' C	186

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variations in process of manufacture. †C—Coils.



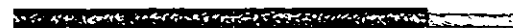
ROCKBESTOS ALL-ASBESTOS 300 VOLT FIXTURE WIRES

National Electrical Code Type AF

MAXIMUM OPERATING TEMP. 150°C (302°F)



WHITE ASBESTOS INSULATION



BLACK ASBESTOS INSULATION



SOLID COLOR BRAID



SOLID COLOR BRAID WITH MARKER

FOR LIGHTING FIXTURES, SUN LAMPS, OFFICE EQUIPMENT, RADIO APPARATUS, LEADS FOR SMALL MOTORS AND TRANSFORMERS, MINIATURE SWITCHBOARDS, ETC.

These heat resisting fixture wires are used for lighting fixtures, sun lamps, office equipment, radio apparatus, leads for small motors and transformers, miniature switchboards, etc. They are approved by the Underwriters' Laboratories for lighting fixture wiring and bear their labels.

For fixtures where the wiring is concealed in stems or brackets, the PLAIN type wire is recommended. It has no braid. Made in black and white to indicate polarity.

When wiring is exposed, such as on a chain pendant fixture, the BRAIDED wire is recommended. Made in solid color braids and solid color with marker thread to indicate polarity.

ORDERING INFORMATION

Standard Packing: Both plain and braided fixture wires are put up on metal spools and in coils, and where quantity warrants (5000 to 10,000 feet depending on size) on factory reels.

Rockbestos plain fixture wire is furnished in standard colors, black and white, red, green, yellow, gray, orange and brown can be furnished to order.

Authorized stock items: Black and white.

Rockbestos braided fixture wire is finished in standard colors, mahogany brown and black in glazed cotton. Other colors and polarity marker threads can be furnished to order.

In ordering specify:

A.W.G. size and stranding.

Whether plain type or braided type.

If plain whether half the order black, other half white finish, or all one color.

If braided type, whether half order solid color braid, other half with marker or all one way.

Color of braid.

TABLE FS (PLAIN)

300 VOLTS

TYPE AF

Size	Stranding	Bare Diam. Inches	Min. Felted Wall Mills	*Nominal Finished Diameter Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
18 AWG	16/30	.045	31	.115	11	500' S	16
16	26/30	.059	31	.130	15	500' S	22
14	41/30	.075	31	.145	21	500' S	27
12	65/30	.095	47	.195	36	500' C	41
10	105/30	.120	47	.220	51	500' C	57

TABLE FSB (BRAIDED)

300 VOLT

TYPE AF

Size	Stranding	Bare Diam. Inches	Min. Felted Wall Mills	*Nominal Finished Diameter Inches	Approx. Net Wgt. in Lbs. per 1000'	*Standard Shipping Length Feet	Approx. Shipping Weight per 1000'
18 AWG	16/.010	.045	31	.145	12.5	500' S	16
16	26/.010	.059	31	.160	17.0	500' S	21
14	41/.010	.075	31	.175	23.1	500' S	29
12	65/.010	.095	47	.225	39.7	500' C	49
10	105/.010	.120	47	.250	55.3	500' C	65

*Finished diameters given above are average. A tolerance of plus or minus 5% is necessary due to variation in process of manufacture. *C—Coils, S—Spools



BARE COPPER WIRE DATA

ALL DATA TO ASTM B-258
RESISTANCE (BUREAU OF STANDARDS)

Size AWG	Diam. Inches	Circular Mils	LBS./1000'	FT/LB	OHMS/1000' 20°C (68°F)	Size AWG
4/0	.460	211.600	640.5	1.561	.04901	4/0
3/0	.410	167.800	507.9	1.968	.06180	3/0
2/0	.365	133.100	402.8	2.482	.07795	2/0
1/0	.325	105.600	319.5	3.150	.09827	1/0
1	.289	83.690	255.3	3.947	.1239	1
2	.258	66.360	200.9	4.977	.1563	2
3	.229	52.620	159.5	6.276	.1970	3
4	.204	41.740	126.1	7.914	.2485	4
5	.182	33.090	100.2	9.980	.3155	5
6	.162	26.240	79.46	12.58	.3951	6
7	.144	20.820	63.02	15.87	.4982	7
8	.128	16.510	49.98	20.01	.6282	8
9	.114	13.090	39.63	25.23	.7921	9
10	.102	10.380	31.43	31.82	.9989	10
11	.091	8.230	24.92	40.12	1.260	11
12	.081	6.530	19.77	50.59	1.588	12
13	.072	5.180	15.68	63.80	2.003	13
14	.064	4.110	12.43	80.44	2.525	14
15	.057	3.260	9.818	101.4	3.184	15
16	.051	2.580	7.818	127.9	4.016	16
17	.045	2.050	6.200	161.3	5.064	17
18	.040	1.620	4.917	203.4	6.385	18
19	.036	1.290	3.899	256.5	8.051	19
20	.032	1.020	3.092	323.4	10.15	20
21	.028	812	2.452	407.8	12.80	21
22	.025	640	1.945	514.2	16.14	22
23	.0226	511	1.542	648.4	20.36	23
24	.020	404	1.223	817.7	25.67	24
25	.0179	320	.9699	1031.	32.37	25
26	.0159	253	.7692	1300.	40.81	26
27	.0142	202	.6100	1639.	51.47	27
28	.0126	159	.4837	2067.	64.90	28
29	.0113	128	.3836	2607.	81.83	29
30	.010	100	.3042	3287.	103.2	30
31	.0089	79.2	.2413	4145.	130.1	31
32	.0080	64.0	.1913	5227.	164.1	32
33	.0071	50.4	.1517	6591.	206.9	33
34	.0063	39.7	.1203	8310.	260.9	34
35	.0056	31.4	.09542	10480.	329.0	35
36	.0050	25.0	.07568	13210.	414.8	36
37	.0045	20.2	.06001	16660.	523.1	37
38	.0040	16.0	.04759	21010.	659.6	38
39	.0035	12.2	.03774	26500.	831.8	39
40	.0031	9.61	.02993	33410.	1049.	40

RETURNABLE REEL DATA

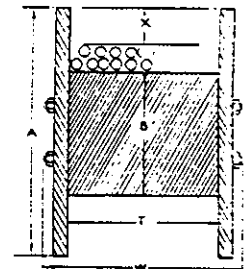
Reel Dimensions - Inches

Flange (A)	24	24	30	42	48	48	60	66	72	72
Traverse (T)	6	10	12	12	24	15	32	36	36	36
Drum (B)	14	14	16	24	24	27	32	40	40	48
Max. Width (W)	9 1/4	13 1/4	16	18 3/4	30 1/2	21 1/2	40 1/2	45	45	45
Vol. Cu. Ft.	3	5	10	17	41	27	87	116	137	137
Approx. lbs. - All Wood	30*	36*	48	130	250	185	500	650	790	820
Weight lbs. - Wood - Steel drum			5*	185	275	225	500	650	790	820

Cable diam., Inches

Recommended Maximum Capacity—Feet per Reel

300	380	1468	3757	7916						
320	835	1391	3346	7190						
340	709	1182	2977	6220						
360	598	997	2644	5648						
380	572	953	2342	4846		8610				
400	478	797	2070	4388		7885				
420	459	765	1993	3968		7225				
440	378	629	1756	3583		6265				
460	364	606	1558	3461		5715				
480	352	585	1489	3122		5210				
500	340	566	1296	2810		8835				
550	262	437	1072	2410		7345				
600	198	350	881	1890		6070				
650	185	308	828	1615		5350				
700	134	225	676	1370		4560				
750	127	210	545	1155	3820	2175	7925			
800	120	199	519	1100	3340	2070	7035			
850	114	189	409	920	2910	1610	6230			
900	78	130	591	880	2795	1540	5505	6895		7160
950	75	124	575	730	2425	1315	4850	6140	8205	6235
1,000	71	119	289	715	2090	1110	4675	5470	7320	5400
1,055			278	575	2020	1070	4105	5060	6510	5180
1,100			268	555	1730	1030	3585	4540	6290	4465



X = Clearance between top layer of cable and flange edge.

NOTES:

- Clearance (X) equal to one cable diameter but not less than 2 inch minimum.
- Use Maximum Diameter of cable to determine reel size.
- All capacities shown in this table meet a recommended drum diameter (B) equal to 14 times the cable diameter. For all leaded and solid conductor AVA cables, the recommended drum diameters (B) are 18 times the cable diameter. Capacities shown above the blue line meet these requirements.
- All reels with leaded cables (30" flange and larger) to be wood lagged. Lagging adds the following to reel weight:

Size Reel	Wgt. of Lagging Lbs.	Size Reel	Wgt. of Lagging Lbs.
30 x 12	25	60 x 32	210
42 x 12	80	66 x 32	270
48 x 24	101	72 x 32	300
48 x 15	90		

*These reels have steel banded wood flanges.

Cable diam. In.

1.150	535	1675	865	3470	4220	5580	4300
1.200	430	1420	835	3015	3790	4930	3670
1.250	415	1380	690	2925	3550	4780	3550
1.300	405	1340	665	2845	3200	4200	3435
1.350	395	1120	645	2450	3005	4085	2900
1.400	305	1095	630	2385	2835	3565	2815
1.450	295	1065	505	2035	2555	3475	2730
1.500	290	875	495	1985	2420	3005	2275
1.550	280	855	480	1940	2295	2935	2210
1.600	275	835	470	1655	2180	2865	2155
1.650	205	820	370	1595	1970	2455	2100
1.700	200	660	360	1560	1875	2400	1710
1.750			350	1530	1785	2350	1670
1.800			345	1265	1710	2300	1635
1.850			335	1240	1545	1945	1595
1.900			330	1215	1475	1905	1560
1.950				1190	1410	1870	1235
2.000				965	1355	1835	1210
2.100				930	1245	1500	1165
2.200				900	1065	1445	1115
2.300					970	1155	830
2.400					910	1120	800
2.500					775	1085	775
2.600					720	840	745
2.700					670	820	525
2.800					625	795	505
2.900							490
3.000							480

ROCKBESTOS PRODUCTS CORPORATION

NEW HAVEN 4



CONNECTICUT

Dear Sir:

Here is your copy of our new Rockbestos Handbook and Catalog No. 10-G. It illustrates and describes the various standard and special wires, cables and cords we have designed and developed for use in electrical products, machinery, and industrial power, control and lighting circuits subjected to severe operating conditions.

You will note in looking through the index pages 2 and 3 that the wires and cables in this catalog have been organized for your convenience and easy reference into National Electrical Code Types, Rockbestos special constructions, and engineering data.

We hope that this new style format will be more helpful to you in presenting completely the information you will require on our Rockbestos permanently insulated wires, cables and cords.

Your comments on this catalog and suggestions for its improvement are always welcome.

Sincerely yours,

R. F. Coyle
R. F. Coyle
Advertising Manager

gem

RBB 01287

DISTRICT SALES OFFICES

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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

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