ANACONDA BRAND

CAROL BRAND®

Mining Cable

FOR INDUSTRIAL, COMMERCIAL AND SPECIALTY APPLICATIONS



General Cable

OCTOBER 2014

MINING

Mining Cable for Industrial, Commercial and Specialty Applications

This new catalog contains in-depth information on the most comprehensive line of mining cable available today. It features the latest information on products, along with detailed technical and specification data in indexed sections – with an easy-to-use "spec-on-a-page" format.

The spec-on-a-page format was developed to meet your needs. It features up-to-the-minute product information, from applications and constructions to detailed technical and specification data. There's also a technical information section for additional assistance.

And, of course, if you need any further data, General Cable's Customer Service staff provides the answers you need quickly and efficiently.

All information in this catalog is presented solely as a guide to product selection and is believed to be reliable. All printing errors are subject to correction in subsequent releases of this catalog. Although General Cable has taken precautions to ensure the accuracy of the product specifications at the time of publication, the specifications of all products contained herein are subject to change without notice.

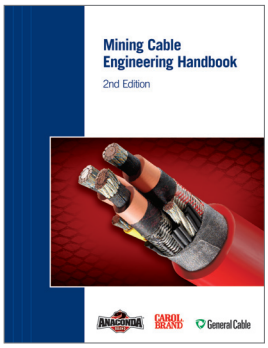
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Related Literature

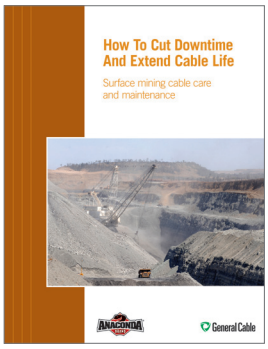
MINING CABLE ENGINEERING GUIDE



Mining Cable Engineering Handbook
2nd Edition

Welcome to the second edition of General Cable's **Mining Cable Engineering Handbook**. This manual provides engineering information for today's mine power cables. If you need any further information on any of your wire and cable needs, General Cable's customer service and technical staff are available to provide the answers you need quickly and efficiently.

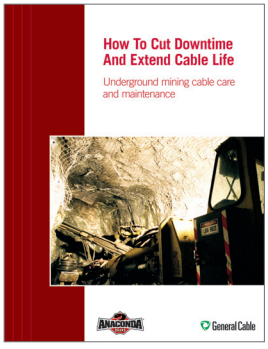
SURFACE MINING GUIDE



How to Cut Downtime and Extend Cable Life
Surface mining cable care and maintenance

Anaconda® Brand mining cables have been designed to reduce cable-related downtime, as this factor represents a serious impact to mine profitability. This booklet represents a timely, updated body of knowledge for **surface mining**. It reduces our recommendations to simple procedures that can readily be passed on to all of your operating personnel.

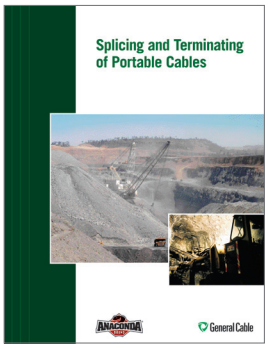
UNDERGROUND MINING GUIDE



How to Cut Downtime and Extend Cable Life
Underground mining cable care and maintenance

Anaconda® Brand mining cables have been designed to reduce cable-related downtime, as this factor represents a serious impact to mine profitability. This booklet represents a timely, updated body of knowledge for **underground mining**. It reduces our recommendations to simple procedures that can readily be passed on to all of your operating personnel.

SPLICING AND TERMINATING GUIDE



Splicing And Terminating of Portable Cables

Splices and terminations, which are always a vital part of any cable system, become more susceptible to failure at higher voltages. Whether the splice or termination is accomplished by the use of hand-applied tapes, a filled or molded device, heat-shrinkable tubing, or a prefabricated device, care should be exercised during the application. This brochure offers **general procedures and techniques** for splicing and terminating of portable cables.

PRODUCT SELECTION LOCATOR

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One Company
Connecting The World



POWERFUL PRESENCE · PRODUCTS PERFORMANCE · PEOPLE

General Cable has been a wire and cable innovator for over 170 years, always dedicated to connecting and powering people's lives. Today, with more than 14,500 employees and more than $6 billion in revenues, we are one of the largest wire and cable manufacturers in the world.

Our company serves customers through a global network of 57 manufacturing facilities in 26 countries and has worldwide sales representation and distribution. We are dedicated to the production of high-quality aluminum, copper and fiber optic wire and cable and systems solutions for the energy, construction, industrial, specialty and communications sectors. With a vast portfolio of products to meet thousands of diverse application requirements, we continue to invest in research and development in order to maintain and extend our technology leadership by developing new materials, designing new products, and creating new solutions to meet tomorrow's market challenges.

In addition to our strong brand recognition and strengths in technology and manufacturing, General Cable is also competitive in such areas as distribution and logistics, marketing, sales and customer service. This combination enables us to better serve our customers globally and as they expand into new geographic markets.

General Cable offers our customers all the strengths and value of a large company, but our people give us the agility and responsiveness of a small one. We service you globally or locally.

General Cable | ONE COMPANY
CONNECTING THE WORLD

Visit our Website at
www.generalcable.com

General Cable

Corporate Social Responsibility

CREATING SHARED VALUE

General Cable believes corporate social responsibility (CSR) is about creating shared value. That means keeping a dual focus in our business decisions: what is good for us as a company and what contributes to the greater good of the communities in which we live and work.



SAFETY

Working safer by working together

General Cable has one worldwide safety vision and goal – ***ZERO & BEYOND***. We measure safety performance globally, share best practices and implement sound health and safety management systems. Many of our facilities worldwide are OHSAS 18001 (safety management system) certified. All North American facilities have implemented an equivalent health and safety management system. General Cable was a pioneer in obtaining the OHSAS 18001 Certificate for Occupational Health and Safety Management Systems in Europe and North Africa.



SUSTAINABILITY

Responsible practices in daily operations

As a global leader in the wire and cable industry, General Cable recognizes its role and responsibility in promoting sustainability. Our strongest business value is continuous improvement in all areas of our company. Across our many businesses, the quest to introduce new and better products through continuous improvement in environmental designs reflects our commitment to achieving industry-leading standards and responding proactively to global environmental issues. General Cable was the first cable manufacturer to obtain certification for its environmental management system, in accordance with the ISO 14001 and EMAS Standards.



CITIZENSHIP

A commitment to being good citizens

Being responsible citizens in our communities is of the utmost importance to us. Unequivocal honesty, integrity, forthrightness and fair dealing have long been part of General Cable's core values and are expected globally in all of our business relationships with our customers, employees, suppliers, neighbors and competitors. Our company leaders and employees strive to make a difference throughout a host of volunteer activities and financial support, improving the communities in which we live and work.



INNOVATION

Technologies that power and connect the world

General Cable is delivering innovation that matters. We are focusing on R&D expertise and investing in developing wire and cable solutions that meet the challenges confronting our customers and the world. In working together and using all the ingenuity and creativity we have, we will reach the goal of being the preeminent supplier of wire and cabling solutions in the industry, with both green constructions and designs for the ever-growing renewable energy market.

GREEN INITIATIVE

A commitment to achieving industry-leading standards and responding proactively to environmental global issues.

+1.859.572.8000
info@generalcable.com

Visit www.GeneralCableCSR.com to learn more.


General Cable
ANACONDA BRAND
CAROL BRAND
ANAMAXX
Mining

Mining Cable Application Guide

APPLICATION	CAROL® BRAND INDUSTRIAL-GRADE CABLES	ANACONDA® BRAND MINING-GRADE CABLES
UNDERGROUND MINING APPLICATIONS		
Longwall Shearers		X
Shuttle Cars		X
Bridge Conveyors		X
High-Voltage Distribution		X
Cutting Machines		X
Loading Machines		X
Continuous Miners		X
Drills		X
Roof Bolters		X
Locomotives		X
Hydraulic Pumps		X
Sectionalized Portable Power		X
Borehole Cables		X
Pumps	X	X
Accessory Equipment	X	X
Two-Conductor Welding	X	X
Belt Drives	X	X
Hydraulic Power Packs	X	X
Belt Take-Ups	X	X
Battery Changers	X	X
Conveyor Feeder/Breakers	X	X
SURFACE MINING APPLICATIONS		
Drills		X
Stripping Shovels		X
Loading Shovels		X
Drag Lines		X
Pumps	X	X
Accessory Equipment	X	X

General Cable mining cables are manufactured in accordance with:

- ICEA S-75-381 Portable and Power Feeder Cables for Use in Mines and Similar Applications
- CAN/CSA C22.2 No. 96 Portable Power Cables, and certified by Natural Resources Canada
- CAN/CSA C22.2 No. 96.1 Mine Power Feeder Cables
- Mine Safety and Health Administration flame test requirements and accepted for listing by MSHA

Mining Cable Product Constructions

General Cable offers the broadest line of mining- and industrial-grade flexible power cables.

Construction	Carol® Brand Industrial-Grade Cables	Anaconda® Brand Mining-Grade Cables	Features and Benefits
Conductors:			**Bare Copper Conductor** • Flexible conductor for industrial and static applications • Cost-effective conductor designs where cable is not being subjected to repetitive movement **Tinned Copper Conductor** • Enhanced flex life and increased resistance to wire breakage during repeated movement • Additional corrosion resistance adds to service life
• Fully Annealed Bare Copper	X		
• Fully Annealed Tinned Copper		X	
Type MP-GC:			
• Fully Annealed Bare Copper		X	
Insulation:			**EPR Insulation** • Outstanding dielectric properties • Long life at temperatures rated from -40˚C to +90˚C • Excellent moisture and corona resistance • Flexible for ease of handling
• Premium-Grade EPR	X	X	
Type MP-GC			
• Premium-Grade EPR		X	
• Premium-Grade XLPE		X	
Shielding: **Type SHD-GC and SHD-CGC/SHD-BGC:**			**Tinned Copper/Textile Composite Braid Shielding** • Provides maximum shield flex life **Copper Tape Shielding (EIS)** • 100% coverage and added corona protection (EIS - Extruded Insulation Shield)
• Copper/Textile Braid		X	
Type MP-GC:			
• EIS/Copper Tape		X	
Grounding Conductors: **Type G:**			**Bare Copper Grounding Conductor** • Flexible conductor for industrial applications • Cost-effective conductor designs where cable is not being subjected to repetitive movement **Tinned Copper Grounding Conductor** • Enhanced flex life and increased resistance to wire breakage during repeated movement • Additional corrosion resistance adds to service life
• Covered Bare Copper	X		
• Covered Tinned Copper		X (Flat)	
Type G-GC:			
• Covered Bare Copper	X		
• Covered Tinned Copper		X (Flat)	
• Tinned Copper		X	
Type W:			
• Covered Bare Copper	X		
• Covered Tinned Copper		X	
Type SHD-GC:			
• Tinned Copper		X	
Type MP-GC:			
• Tinned Copper		X	
Ground-Check Conductors:			**Ground-Check Conductor** • Provides maximum reliability of the ground-check circuit in all round constructions • Insulated with high-strength polypropylene (Anaconda)
• Insulated Bare Copper	X	X (Round)	
• Insulated Tinned Copper		X (Flat)	
Jackets: **Round Constructions:**			**Heavy-Duty, Single-Layer Jacket** • Heavy-duty construction for non-critical applications and distribution cable • Good physical characteristics with high degree of resistance to cutting, abrasion and medium-duty flexing • Excellent general purpose industrial performance **Extra-Heavy-Duty, Two-Layer Reinforced Jacket** • Increased jacket tensile strength • Increased mechanical strength for high flex applications • Maximum mechanical protection against crushing and tearing • Maximum abrasion resistance • Preferred construction for mining machines
• CV-Cured, Single-Layer, Reinforced Chlorinated Polyethylene (CPE)	X		
• Lead-Cured, Two-Layer, Reinforced Chlorinated Polyethylene (CPE)		X (Round)	
Flat Constructions:			
• Lead-Cured, Chlorinated Polyethylene (CPE)		X (Flat)	
Type MP-GC:			
• Premium-Grade PVC		X	
• Lead-Cured, Chlorinated Polyethylene (CPE)		X	

*Anaconda® Brand Flat and Type MP-GC cables have an extra-heavy-duty, single-layer jacket.

Anaconda® Brand Mining-Grade Cables 1



Anaconda® Brand—when it comes to reliability and performance in a mining cable, one name stands alone. Anaconda® Brand—the world's premier extra-heavy-duty mining-grade cable.

Engineered to endure the most severe and extreme demands of the toughest mining applications. In a class by itself, Anaconda® Brand sets the industry's highest performance standard by which all others are measured. With a reinforced, two-layer, lead-cured thermoset jacket, Anaconda® Brand mining cables provide for the ultimate in protection against the worst hazards and give new meaning to dependable, durable and reliable. When the very best is a basic requirement, there is only one preferred choice, Anaconda® Brand mining cables.

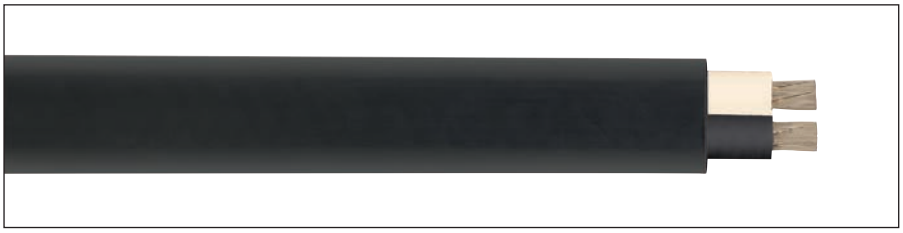
Our Anaconda® Brand mining-grade products carry a full range of listings and certifications with MSHA and the Canadian Standard Association. In addition, the products meet or exceed the requirements of ICEA S-75-381 Portable and Power-Feeder Cables for use in mines and similar applications.

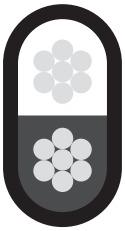
The advantage of General Cable's experience and expertise in mining cable technology continues to provide practical benefits over the entire life cycle of a particular cable in a specific application. Better design and construction, more advanced materials and process technology, and more reliable performance over a longer time all result in lower cost per ton.

Whatever the specific requirement, General Cable can provide the best performance and best cost solution for any mining application.

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Anaconda® Brand Type W Power, Flat Parallel Portable w/o Ground, EPR/CPE 2000 Volts, 90°C, Two Conductor





Product Construction

Conductor:
- 4 AWG thru 4/0 AWG coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored (black and white)

Jacket:
- Extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 2/C FLAT TYPE W 2000 VOLTS P-102-109 MSHA

Options:
- Colored jackets are available
- Anamaxx® jacket

Applications:
- Designed for use as trailing cables on DC mining equipment
- Designed for use where diode grounding is employed
- For battery charges and oil drilling rigs

Features:
- Flat construction provides maximum resistance to damage from crushing and runovers
- D-shaped insulation prevents conductors from shifting under the jacket
- Excellent physical toughness and heat stability
- Excellent heat, moisture, steam, oil, chemical, radiation and compression cut resistance
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

4 AWG THRU 4/0 AWG CONDUCTORS, TWO CONDUCTOR, FLAT PARALLEL PORTABLE W/O GROUND, TYPE W - 2000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL CABLE DIMENSIONS		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13115.550400	2	4	259	0.060	1.5	0.61 x 1.05	15.5 x 26.7	271	403	550	818	127
13115.550300	2	3	259	0.060	1.5	0.68 x 1.14	17.3 x 29.0	329	489	675	1005	145
13115.550200	2	2	259	0.060	1.5	0.73 x 1.24	18.5 x 31.5	412	613	810	1205	167
13101.814061	2	1	259	0.080	2.0	0.81 x 1.40	20.6 x 35.6	523	778	1020	1520	191
13151.499461	2	1/0	259	0.080	2.0	0.93 x 1.51	23.6 x 38.2	657	978	1265	1880	217
13152.844840	2	2/0	329	0.080	2.0	0.99 x 1.63	25.1 x 41.4	835	1242	1515	2255	250
13115.755300	2	3/0	413	0.080	2.0	1.03 x 1.77	26.2 x 45.0	1048	1560	1810	2694	286
13115.755400	2	4/0	532	0.080	2.0	1.10 x 1.89	27.9 x 48.0	1363	2028	2175	3237	328

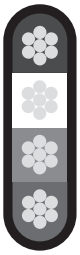
Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal; subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

General Cable

MSHA Mine Safety and Health Administration

Anaconda® Brand Type W Power, Flat Parallel Portable, EPR/CPE 2000 Volts, 90°C, Four Conductor





Product Construction

Conductor:
- 6 AWG thru 4/0 AWG coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored (black, white, red and green)

Jacket:
- Extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 4/C FLAT TYPE W 2000 VOLTS P-102-109 MSHA

Options:
- Colored jackets are available
- Anamaxx® jacket

Applications:
- Designed for use as trailing cables on AC mining equipment:
  - Where a ground-check conductor is not required for fail-safe ground monitoring
  - Where induced voltages in the grounding system do not present a hazard

Features:
- Flat construction provides maximum resistance to damage from crushing and runovers
- Distributes tensile load uniformly among four conductors
- Shaped insulation to prevent conductors from shifting under the jacket
- Excellent physical toughness and heat stability

Features (cont'd.):
- Excellent heat, moisture, steam, oil, chemical, radiation and compression cut resistance
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

6 AWG THRU 4/0 AWG CONDUCTORS, FOUR CONDUCTOR, FLAT PARALLEL PORTABLE, TYPE W - 2000 VOLTS

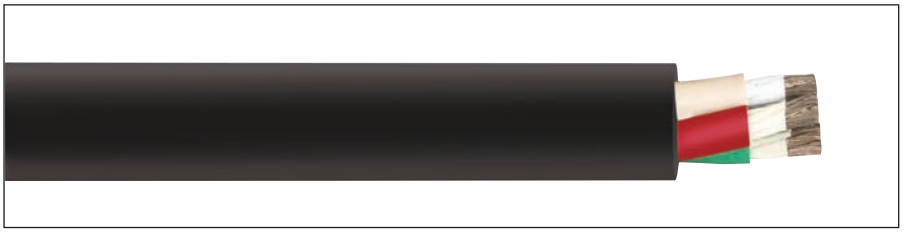
CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL CABLE DIMENSIONS		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13106.824571	4	6	133	0.060	1.5	0.67 x 1.69	17.0 x 42.9	338	503	895	1332	79
13104.785463	4	4	259	0.060	1.5	0.75 x 1.89	19.0 x 48.0	518	771	1185	1764	104
13102.514941	4	2	259	0.060	1.5	0.81 x 2.23	20.6 x 56.6	824	1227	1620	2411	138
13192.800100	4	1	259	0.080	2.0	0.97 x 2.60	24.6 x 66.0	1045	1555	2100	3125	161
13192.805100	4	1/0	259	0.080	2.0	1.01 x 2.73	25.7 x 69.3	1314	1956	2500	3721	186
13192.905200	4	2/0	329	0.080	2.0	1.10 x 2.96	27.9 x 75.2	1670	2485	2900	4316	215
13192.905300	4	3/0	413	0.080	2.0	1.18 x 3.25	30.0 x 82.6	2096	3119	3500	5209	249
13192.905400	4	4/0	532	0.080	2.0	1.29 x 3.46	32.8 x 87.9	2726	4057	4225	6288	287

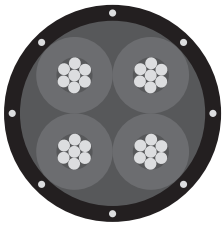
Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal; subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

ANACONDA® BRAND ICEA MSHA Mine Safety and Health Administration General Cable

Anaconda® Brand Type W Power, Round Portable, EPR/CPE

2000 Volts, 90°C, Four Conductor





Product Construction

Conductor:
- 6 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored (black, white, red and green)

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 4/C TYPE W 2000 VOLTS (-50C) FT1 FT5 CSA LR 27161 P-7K-102-045 MSHA

Options:
- Colored jackets are available
- Anamaxx® jacket

Applications:
- Designed for use as trailing cables on AC mining equipment:
  - Where a ground-check conductor is not required for fail-safe ground monitoring
  - Where induced voltages do not present a problem

Features:
- Rope-lay-stranded conductors are extremely flexible and resistant to wire breakage
- Excellent heat, moisture, steam, oil, chemical and radiation resistance
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range

Features (cont'd.):
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage — the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection
- Meets CAN/CSA C22.2 No. 96 Portable Power Cables and is certified by Natural Resources Canada

Packaging:
- Material cut to length and shipped on non-returnable reels

6 AWG THRU 500 KCMIL CONDUCTORS, FOUR CONDUCTOR, ROUND PORTABLE, TYPE W - 2000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13306.426312	4	6	133	0.060	1.5	1.10	27.9	341	507	838	1247	79
13304.440400	4	4	259	0.060	1.5	1.27	32.3	524	779	1174	1747	104
13306.340300	4	3	259	0.060	1.5	1.34	34.0	664	988	1377	2049	120
13302.440200	4	2	259	0.060	1.5	1.48	37.6	833	1239	1701	2531	138
13306.340100	4	1	259	0.080	2.0	1.68	42.7	1082	1610	2192	3262	161
13306.345100	4	1/0	259	0.080	2.0	1.79	45.5	1360	2025	2549	3793	186
13306.645200	4	2/0	329	0.080	2.0	1.93	49.0	1728	2572	3078	4581	215
13306.645300	4	3/0	413	0.080	2.0	2.07	52.6	2169	3228	3685	5485	249
13306.645400	4	4/0	532	0.080	2.0	2.26	57.4	2821	4199	4540	6758	287
13306.646000	4	250	608	0.095	2.4	2.66	67.6	3224	4798	5746	8553	320
13306.646200	4	350	851	0.095	2.4	2.98	75.7	4534	6748	7574	11275	394
13306.646500	4	500	1221	0.095	2.4	3.40	86.4	6506	9682	10376	15441	487

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal; subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

NOTE: For part numbers with CSA-approved color code, contact General Cable inside sales.

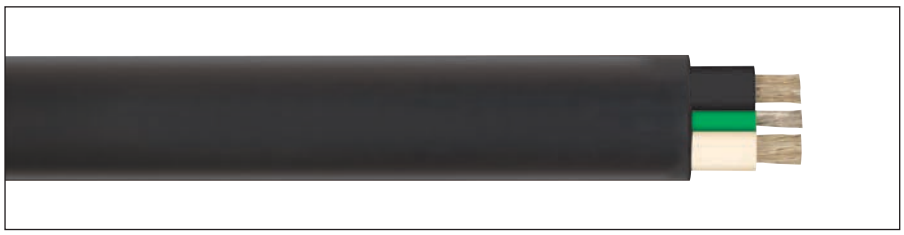
General Cable

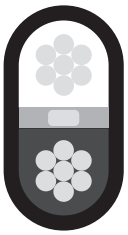
MSHA Mine Safety and Health Administration

Certified Canadian Standard Association

ANACONDA® BRAND

Anaconda® Brand Type G Power, Flat Parallel Portable w/Ground, EPR/CPE 2000 Volts, 90˚C, Two Conductor





Product Construction:

Conductor:
- 4 AWG thru 4/0 AWG coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored (black and white)

Grounding Conductor:
- Coated copper, rope-lay-stranded and shaped with a green elastomer covering designed to keep the grounding conductor in place in the flat assembly

Jacket:
- Extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 2/C FLAT TYPE G 2000 VOLTS P-102-109 MSHA

Options:
- Colored jackets are available
- Anamaxx® jacket

Applications:
- Designed for use as trailing cables on DC mining equipment
- Designed for use where a grounding conductor is necessary

Features:
- Flat construction provides maximum resistance to damage from crushing and runovers
- D-shaped insulation prevents conductors from shifting under the jacket
- Excellent physical toughness and heat stability

Features (cont'd.):
- Excellent heat, moisture, steam, oil, chemical, radiation and compression cut resistance
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

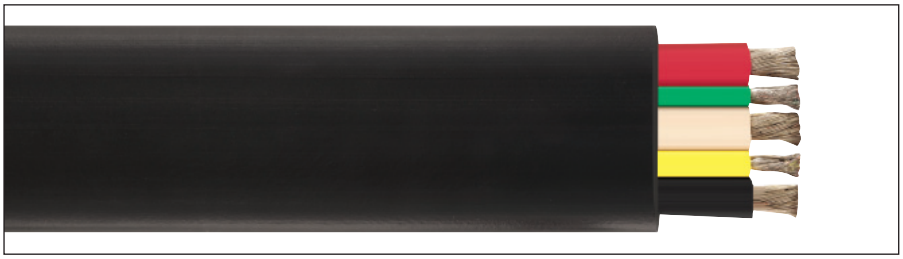
Packaging:
- Material cut to length and shipped on non-returnable reels

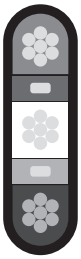
4 AWG THRU 4/0 AWG CONDUCTORS, TWO CONDUCTOR, FLAT PARALLEL PORTABLE W/GROUND, TYPE G - 2000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	NOMINAL CABLE DIMENSIONS		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm		INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13116.550400	2	4	259	0.060	1.5	7	0.61 x 1.15	15.5 x 29.2	326	485	635	945	127
13116.550300	2	3	259	0.060	1.5	6	0.68 x 1.26	17.3 x 32.0	412	613	785	1170	145
13102.830713	2	2	259	0.060	1.5	5	0.73 x 1.35	18.5 x 34.3	518	770	935	1390	167
13101.629210	2	1	259	0.080	2.0	4	0.81 x 1.55	20.6 x 39.4	655	975	1185	1760	191
13151.752132	2	1/0	259	0.080	2.0	3	0.93 x 1.67	23.6 x 42.4	843	1254	1470	2190	217
13114.755200	2	2/0	329	0.080	2.0	2	0.99 x 1.85	25.1 x 47.0	1045	1555	1790	2660	250
13116.755300	2	3/0	413	0.080	2.0	1	1.03 x 2.00	26.2 x 50.8	1309	1949	2145	3190	286
13116.755400	2	4/0	532	0.080	2.0	1/0	1.10 x 2.10	27.9 x 53.3	1698	2527	2545	3790	328

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal; subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

Anaconda® Brand Type G-GC Power, Flat Parallel Portable w/Ground-Check, EPR/CPE 2000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 6 AWG thru 4/0 AWG coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored (black, white and red)

Ground-Check Conductor:
- Coated copper, rope-lay-stranded and shaped ground-check conductor is insulated with a yellow elastomer

Grounding Conductor:
- Coated copper, rope-lay-stranded and shaped with a green elastomer covering designed to keep the grounding conductor in place in the flat assembly

Jacket:
- Extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C FLAT TYPE G-GC 2000 VOLTS P-102-109 MSHA

Options:
- Colored jackets are available
- Anamaxx® jacket

Applications:
- Designed for use as trailing cables on AC mining equipment:
  - Where ground monitoring is accomplished with a ground-check conductor
  - Where induced voltages in the grounding system do not present a hazard

Features:
- Flat construction provides maximum resistance to damage from crushing and runovers
- Shaped insulation to prevent conductors from shifting under the jacket
- Excellent physical toughness and heat stability
- Excellent heat, moisture, steam, oil, chemical, radiation and compression cut resistance

Features (cont'd.):
- Flexible for easy handling
- Resists cutting, impact, abrasion and flame
- Excellent thermal stability and physical properties over a broad temperature range

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

6 AWG THRU 4/0 AWG CONDUCTORS, THREE CONDUCTOR, FLAT PARALLEL PORTABLE W/GROUND-CHECK, TYPE G-GC - 2000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL CABLE DIMENSIONS		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13162.650600	3	6	133	0.060	1.5	8	8	0.66 x 1.67	16.8 x 42.4	357	532	900	1340	79
13162.650400	3	4	259	0.060	1.5	7	8	0.72 x 1.87	18.3 x 47.5	507	755	1175	1750	104
13164.550300	3	3	259	0.060	1.5	6	6	0.78 x 2.08	19.8 x 52.8	660	982	1395	2080	120
13102.177012	3	2	259	0.060	1.5	5	6	0.85 x 2.23	21.6 x 56.6	807	1201	1625	2415	138
13164.550100	3	1	259	0.080	2.0	4	6	0.96 x 2.50	24.4 x 63.5	1000	1488	2090	3110	161
13164.555100	3	1/0	259	0.080	2.0	3	5	1.01 x 2.67	25.6 x 67.8	1258	1871	2470	3675	186
13164.755200	3	2/0	329	0.080	2.0	2	5	1.09 x 2.86	27.7 x 68.1	1567	2333	2940	4375	215
13164.755300	3	3/0	413	0.080	2.0	1	5	1.18 x 3.12	30.0 x 79.2	1939	2885	3515	5230	249
13164.755400	3	4/0	532	0.080	2.0	1/0	5	1.24 x 3.30	31.5 x 83.8	2485	3698	4245	6315	287

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal; subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58.
For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

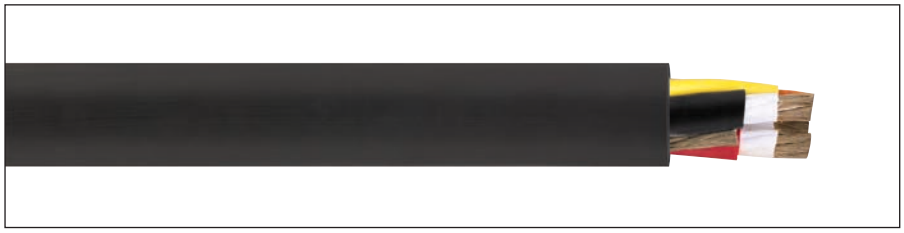
General Cable

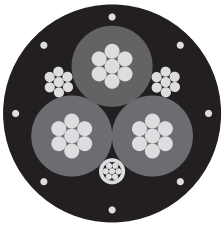
MSHA Mine Safety and Health Administration

ICEA

ANACONDA® BRAND

Anaconda® Brand Type G-GC Power, Round Portable w/Ground-Check, EPR/CPE 2000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 6 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored (black, white and red)

Ground-Check-Conductor:
- Annealed copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene

Grounding Conductors:
- Two coated copper, rope-lay-stranded per ASTM B172

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE G-GC 2000 VOLTS FT1 FT5 P-7K-102-045 MSHA

Options:
- Colored jackets are available
- Anamaxx® jacket

Applications:
- Designed for use as trailing cables on AC mining equipment:
  - Where a ground-check conductor is required for fail-safe monitoring
  - Where induced voltages in the grounding system will not present a hazard

Features:
- Ground-check-conductor provides fail-safe ground monitoring for maximum safety
- Improved ground-check conductor has longer flex life and durability
- Rope-lay-stranded conductors are extremely flexible and resistant to wire breakage

Features (cont'd.):
- Excellent heat, moisture, steam, oil, chemical and radiation resistance
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

6 THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, ROUND PORTABLE W/GROUND-CHECK, TYPE G-GC - 2000 VOLTS

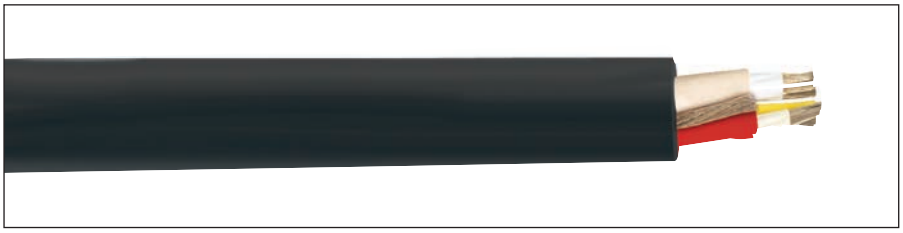
CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13306.644092	3	6	133	0.060	1.5	10	10	1.05	26.6	360	536	735	1094	79
13304.693196	3	4	259	0.060	1.5	8	10	1.19	30.2	533	794	1065	1585	104
13354.340300	3	3	259	0.060	1.5	8	10	1.24	31.5	654	974	1245	1853	120
13302.772159	3	2	259	0.060	1.5	7	10	1.34	34.0	791	1178	1480	2202	138
13301.422060	3	1	259	0.080	2.0	6	8	1.51	38.3	1016	1512	1885	2805	161
13351.608053	3	1/0	259	0.080	2.0	5	8	1.65	41.9	1263	1880	2290	3408	186
13352.555382	3	2/0	329	0.080	2.0	4	8	1.75	44.4	1581	2352	2710	4033	215
13354.645300	3	3/0	413	0.080	2.0	3	8	1.89	48.0	2023	3010	3270	4866	249
13354.774063	3	4/0	532	0.080	2.0	2	8	2.04	51.8	2535	3773	3975	5915	287
13354.646000	3	250	608	0.095	2.4	2	6	2.39	60.7	2932	4364	4950	7366	320
13352.556200	3	350	851	0.095	2.4	1/0	6	2.68	68.0	4068	6054	6625	9859	394
13354.646500	3	500	1221	0.095	2.4	2/0	6	3.03	76.9	5831	8677	8890	13230	487

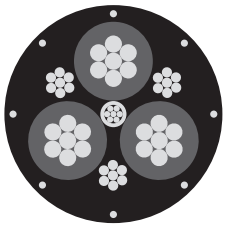
Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal; subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58.
For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

MSHA Mine Safety and Health Administration

General Cable

Anaconda® Brand Type G-CGC Power, Round Portable w/Extensible Ground-Check, EPR/CPE 2000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 1 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored (black, white and red)

Ground-Check Conductor:
- Coated copper specially stranded to provide extensibility without sustaining tensile load, thereby providing maximum resistance to flex fatigue
- Insulated with high-strength polypropylene and placed in the center interstice

Grounding Conductors:
- Three coated copper, rope-lay-stranded per ASTM B172

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE G-CGC 2000 VOLTS P-7K-102-045 MSHA

Options:
- Colored jackets are available
- Anamaxx® jacket

Applications:
- Designed for use as trailing cables on AC mining equipment:
  - Where a ground-check conductor is required for fail-safe ground monitoring
  - With wireless ground monitoring systems (The symmetrical grounding system does not produce induced voltages when operating in a balanced 3-phase system)

Features:
- Improved ground-check conductor has longer flex life and durability
- Rope-lay-stranded conductors are extremely flexible and resistant to wire breakage
- Symmetrical grounding system does not produce induced voltages when operating in a balanced 3-phase system

Features (cont'd):
- G-CGC can also be used as a Type G cable
- Excellent heat, moisture, steam, oil, chemical and radiation resistance
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

1 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, ROUND PORTABLE W/EXTENSIBLE GROUND-CHECK, TYPE G-CGC - 2000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13329.340100	3	1	259	0.080	2.0	7	16	1.65	41.9	1030	1533	2060	2798	161
13329.345100	3	1/0	259	0.080	2.0	6	16	1.72	43.7	1294	1926	2350	3408	186
13329.645200	3	2/0	329	0.080	2.0	5	16	1.89	48.0	1637	2436	2760	4018	215
13329.645300	3	3/0	413	0.080	2.0	4	16	2.03	51.6	2042	3038	3300	4837	249
13329.645400	3	4/0	532	0.080	2.0	3	16	2.16	54.9	2638	3926	3965	5901	287
13329.646000	3	250	608	0.095	2.4	2	16	2.39	60.7	3070	4569	5015	7463	320
13329.646200	3	350	851	0.095	2.4	1	16	2.68	68.1	4224	6286	6595	9814	394
13329.646500	3	500	1221	0.095	2.4	2/0	16	3.03	77.0	6188	9208	9040	13453	487

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal; subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

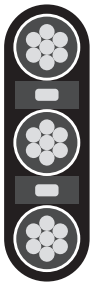
General Cable

MSHA Mine Safety and Health Administration

ANACONDA® BRAND

Anaconda® Brand Type SHD Power, Flat Portable w/Ground, EPR/CPE 2000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 2/0 AWG and 3/0 AWG coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over a non-conducting overlapped tape

Grounding Conductors:
- Coated copper, rope-lay-stranded per ASTM B172
- Two conductors, shaped and covered with an extruded semi-conducting shield

Jacket:
- Reinforced, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C FLAT TYPE SHD 2000 VOLTS P-7K-102132 MSHA

Options:
- Colored jackets are available
- Anamaxx® jacket

Applications:
- Designed for use as trailing cables on AC mining equipment:
  - Where induced voltages in the grounding system will not produce a hazard
  - On low- and medium-voltage AC circuits where shielding is desired or required

Features:
- Flexible insulation shield provides shock hazard protection
- Excellent heat, moisture, steam, oil, chemical and radiation resistance
- Flexible for easy handling

Features (cont'd):
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

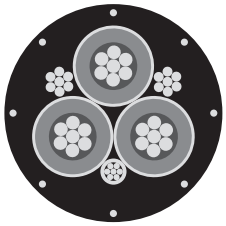
2/0 AWG AND 3/0 AWG CONDUCTORS, THREE CONDUCTOR, FLAT PORTABLE W/GROUND, TYPE SHD - 2000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	NOMINAL CABLE DIMENSIONS		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm		INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13790.025200	3	2/0	329	0.080	2.0	3	1.18 x 2.99	30.0 x 76.0	1766	2628	3346	4980	243
13792.025300	3	3/0	413	0.080	2.0	2	1.25 x 3.29	31.8 x 83.6	2173	3234	3890	5789	279

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal; subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

Anaconda® Brand Type SHD-GC Power, Shielded Round Portable w/Ground-Check, EPR/CPE 2000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 6 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over non-conducting overlapped tape

Ground-Check Conductor:
- Annealed copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene

Grounding Conductors:
- Coated copper, rope-lay-stranded per ASTM B172
- Two conductors in contact with the flexible copper braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-GC 2000 VOLTS P-7K-102-045 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as trailing cables on AC mining equipment:
  - Where a ground-check conductor is required for fail-safe monitoring
  - With Bretby-type cable handling devices on longwall shearers
  - Where induced voltages in the grounding system will not produce a hazard
  - On low- and medium-voltage AC circuits where shielding is desired or required

Features:
- Flexible insulation shield provides shock hazard protection
- Excellent heat, moisture, steam, oil, chemical and radiation resistance

Features (cont'd):
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

6 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/GROUND-CHECK, TYPE SHD-GC - 2000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13306.240600	3	6	133	0.070	1.8	10	10	0.155	3.9	1.29	32.8	502	748	1130	1682	93
13306.240400	3	4	259	0.070	1.8	8	10	0.155	3.9	1.40	35.6	678	1009	1460	2173	122
13349.340300	3	3	259	0.070	1.8	7	10	0.170	4.3	1.51	38.3	831	1237	1680	2500	140
13302.253396	3	2	259	0.070	1.8	6	8	0.170	4.3	1.59	40.4	1007	1499	1990	2961	159
13301.814577	3	1	259	0.080	2.0	5	8	0.190	4.8	1.76	44.7	1228	1828	2385	3549	184
13351.179353	3	1/0	259	0.080	2.0	4	8	0.190	4.8	1.86	47.2	1485	2210	2765	4115	211
13352.658076	3	2/0	329	0.080	2.0	3	8	0.205	5.2	2.00	50.8	1832	2726	3255	4844	243
13349.645300	3	3/0	413	0.080	2.0	2	8	0.205	5.2	2.13	54.1	2249	3347	3890	5789	279
13354.490389	3	4/0	532	0.080	2.0	1	8	0.220	5.6	2.31	58.7	2854	4248	4720	7024	321
13349.646000	3	250	608	0.095	2.4	1/0	6	0.220	5.6	2.51	63.8	3325	4949	5460	8125	355
13349.646100	3	300	741	0.095	2.4	1/0	6	0.235	6.0	2.68	68.1	3946	5873	6395	9517	398
13362.315522	3	350	851	0.095	2.4	2/0	6	0.235	6.4	2.81	71.4	4493	6686	7280	10834	435
13349.646500	3	500	1221	0.095	2.4	4/0	6	0.265	6.7	3.19	81.0	6641	9883	9820	14614	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

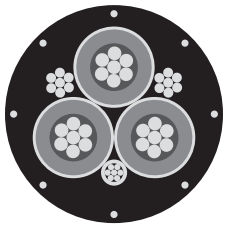
General Cable

MSHA Mine Safety and Health Administration

ANACONDA® BRAND

Anaconda® Brand Type SHD-GC Power, Shielded Round Portable w/Ground-Check, EPR/CPE 2000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 6 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over non-conducting overlapped tape

Ground-Check Conductor:
- Annealed copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene

Grounding Conductors:
- Coated copper, rope-lay-stranded per ASTM B172
- Two conductors in contact with the flexible copper braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-GC 2000 VOLTS (-50C) FT1 FT5 CSA LR 27161 P-7K-102-045 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as trailing cables on AC mining equipment:
  - Where a ground-check conductor is required for fail-safe monitoring
  - With Bretby-type cable handling devices on longwall shearers
  - Where induced voltages in the grounding system will not produce a hazard
  - On low- and medium-voltage AC circuits where shielding is desired or required

Features:
- Flexible insulation shield provides shock hazard protection
- Excellent heat, moisture, steam, oil, chemical and radiation resistance

Features (cont'd):
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection
- Meets CAN/CSA C22.2 No. 96 Portable Power Cables and is certified by Natural Resources Canada

Packaging:
- Material cut to length and shipped on non-returnable reels

6 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/GROUND-CHECK, TYPE SHD-GC - 2000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13306.240600.CA	3	6	133	0.070	1.8	10	10	0.155	3.9	1.29	32.8	502	748	1130	1682	93
13306.240400.CA	3	4	259	0.070	1.8	8	10	0.155	3.9	1.40	35.6	678	1009	1460	2173	122
13349.340300.CA	3	3	259	0.070	1.8	7	10	0.170	4.3	1.51	38.3	831	1237	1680	2500	140
13302.253396.CA	3	2	259	0.070	1.8	6	8	0.170	4.3	1.59	40.4	1007	1499	1990	2961	159
13301.814577.CA	3	1	259	0.080	2.0	5	8	0.190	4.8	1.76	44.7	1228	1828	2385	3549	184
13351.179353.CA	3	1/0	259	0.080	2.0	4	8	0.190	4.8	1.86	47.2	1485	2210	2765	4115	211
13352.658076.CA	3	2/0	329	0.080	2.0	3	8	0.205	5.2	2.00	50.8	1832	2726	3255	4844	243
13349.645300.CA	3	3/0	413	0.080	2.0	2	8	0.205	5.2	2.13	54.1	2249	3347	3890	5789	279
13354.490389.CA	3	4/0	532	0.080	2.0	1	8	0.220	5.6	2.31	58.7	2854	4248	4720	7024	321
13349.646000.CA	3	250	608	0.095	2.4	1/0	6	0.220	5.6	2.51	63.8	3325	4949	5460	8125	355
13349.646100.CA	3	300	741	0.095	2.4	1/0	6	0.235	6.0	2.68	68.1	3946	5873	6395	9517	398
13362.315522.CA	3	350	851	0.095	2.4	2/0	6	0.235	6.4	2.81	71.4	4493	6686	7280	10834	435
13349.646500.CA	3	500	1221	0.095	2.4	4/0	6	0.265	6.7	3.19	81.0	6641	9883	9820	14614	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

ANACONDA® BRAND

Certified Canadian Standard Association

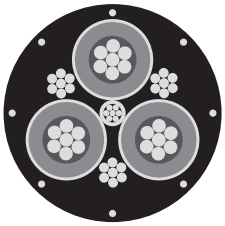
MSHA Mine Safety and Health Administration

General Cable

Anaconda® Brand Type SHD-CGC Power, Shielded Round Portable w/Extensible Ground-Check, EPR/CPE

2000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 1 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over a non-conducting overlapped tape

Ground-Check Conductor:
- Coated copper, specially stranded to provide extensibility without sustaining tensile load, thereby providing maximum resistance to flex fatigue
- Insulated with high-strength polypropylene and placed in the center interstice

Grounding Conductors:
- Three coated copper, rope-lay-stranded per ASTM B172 in contact with the flexible braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-CGC 2000 VOLTS P-7K-102-045 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - Where maximum safety is mandatory, including underground mining machines where induced voltages in an unbalanced grounding system could be hazardous
  - On low- and medium-voltage AC circuits where shielding is desired or required

Features:
- Flexible insulation shield provides shock hazard protection
- Symmetrical grounding system does not produce induced voltages when operating in a balanced 3-phase system
- Excellent heat, moisture, steam, oil, chemical and radiation resistance

Features (cont'd):
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

1 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/EXTENSIBLE GROUND-CHECK, TYPE SHD-CGC - 2000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13340.340100	3	1	259	0.080	2.0	7	16	0.190	4.8	1.85	47.0	1196	1780	2450	3645	184
13340.355100	3	1/0	259	0.080	2.0	6	16	0.190	4.8	1.95	49.5	1469	2186	2779	4129	211
13340.645200	3	2/0	329	0.080	2.0	5	16	0.205	5.2	2.09	53.1	1819	2708	3310	4925	243
13340.645300	3	3/0	413	0.080	2.0	4	16	0.205	5.2	2.21	56.1	2237	3330	3950	5877	279
13340.645400	3	4/0	532	0.080	2.0	3	16	0.220	5.6	2.36	59.9	2845	4233	4630	6889	321
13340.646000	3	250	608	0.095	2.4	2	16	0.235	6.0	2.51	63.8	3290	4896	5440	8096	355
13340.646100	3	300	741	0.095	2.4	1	16	0.235	6.0	2.68	68.1	4002	5956	6300	9375	398
13340.646200	3	350	851	0.095	2.4	1	16	0.235	6.4	2.81	71.4	4461	6639	7030	10462	435
13340.646500	3	500	1221	0.095	2.4	2/0	16	0.265	6.7	3.19	81.0	6460	9614	9525	14175	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

General Cable

MSHA Mine Safety and Health Administration

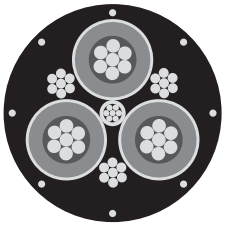
ICEA

ANACONDA® BRAND

Anaconda® Brand Type SHD-BGC Power, Shielded Round Portable w/Extensible Ground-Check, EPR/CPE

2000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 1 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over a non-conducting overlapped tape

Ground-Check Conductor:
- Coated copper, specially stranded to provide extensibility without sustaining tensile load, thereby providing maximum resistance to flex fatigue
- Insulated with high-strength polypropylene and placed in the center interstice

Grounding Conductors:
- Three coated copper, rope-lay-stranded per ASTM B172 in contact with the flexible braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-BGC 2000 VOLTS (-50C) FT1 FT5 CSA LR 27161 P-7K-102-045 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - Where maximum safety is mandatory, including underground mining machines where induced voltages in an unbalanced grounding system could be hazardous
  - On low- and medium-voltage AC circuits where shielding is desired or required

Features:
- Flexible insulation shield provides shock hazard protection
- Symmetrical grounding system does not produce induced voltages when operating in a balanced 3-phase system
- Excellent heat, moisture, steam, oil, chemical and radiation resistance

Features (cont'd):
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection
- Meets CAN/CSA C22.2 No. 96 Portable Power Cables and is certified by Natural Resources Canada

Packaging:
- Material cut to length and shipped on non-returnable reels

1 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/EXTENSIBLE GROUND-CHECK, TYPE SHD-BGC - 2000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13340.340100.CA	3	1	259	0.080	2.0	7	16	0.190	4.8	1.85	47.0	1196	1780	2450	3645	184
13340.355100.CA	3	1/0	259	0.080	2.0	6	16	0.190	4.8	1.95	49.5	1469	2186	2779	4129	211
13340.645200.CA	3	2/0	329	0.080	2.0	5	16	0.205	5.2	2.09	53.1	1819	2708	3310	4925	243
13340.645300.CA	3	3/0	413	0.080	2.0	4	16	0.205	5.2	2.21	56.1	2237	3330	3950	5877	279
13340.645400.CA	3	4/0	532	0.080	2.0	3	16	0.220	5.6	2.36	59.9	2845	4233	4630	6889	321
13340.646000.CA	3	250	608	0.095	2.4	2	16	0.235	6.0	2.51	63.8	3290	4896	5440	8096	355
13340.646100.CA	3	300	741	0.095	2.4	1	16	0.235	6.0	2.68	68.1	4002	5956	6300	9375	398
13340.646200.CA	3	350	851	0.095	2.4	1	16	0.235	6.4	2.81	71.4	4461	6639	7030	10462	435
13340.646500.CA	3	500	1221	0.095	2.4	2/0	16	0.265	6.7	3.19	81.0	6460	9614	9525	14175	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

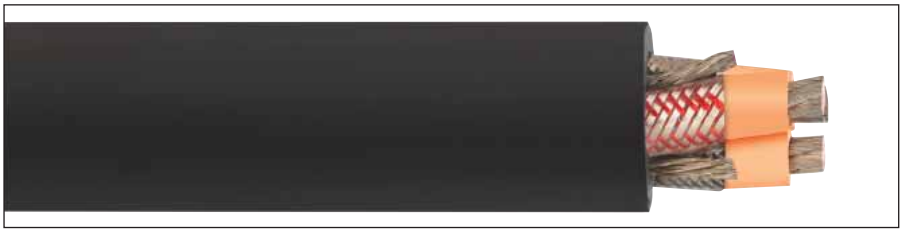
ANACONDA® BRAND

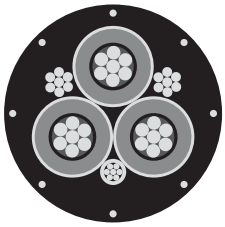
Certified Canadian Standard Association

MSHA Mine Safety and Health Administration

General Cable

Anaconda® Brand Type SHD-GC Power, Shielded Round Portable w/Ground-Check, EPR/CPE 5000 Volts, 90˚C, Three Conductor





Product Construction

Conductor:
- 6 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrasting with black conducting layer

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over a non-conducting overlapped tape

Ground-Check Conductor:
- Annealed copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene

Grounding Conductors:
- Coated copper, rope-lay-stranded per ASTM B172
- Two conductors in contact with the flexible copper braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-GC 5000 VOLTS P-7K-102-046 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - Where service conditions are severe and maximum safety is mandatory (such as power shovels and draglines in open-pit mines, quarries, gantry cranes and slag reclaiming)
  - For high-voltage distribution in underground mines where frequent relocation is necessary

Features:
- Simultaneous extrusion and vulcanization of both strand shield and insulation form a virtually perfect electrode, eliminating unequal electrical stresses

Features (cont'd):
- Excellent heat, moisture, steam, oil, corona, chemical and radiation resistance
- Flexible for easy handling
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

6 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/GROUND-CHECK, TYPE SHD-GC - 5000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16241.210600	3	6	133	0.110	2.8	10	8	0.185	4.7	1.56	39.6	540	804	1560	2322	93
16204.858221	3	4	259	0.110	2.8	8	8	0.185	4.7	1.68	42.7	720	1072	1895	2820	122
16202.317964	3	2	259	0.110	2.8	6	8	0.205	5.2	1.87	47.9	1030	1533	2445	3639	159
16201.396409	3	1	259	0.110	2.8	5	8	0.205	5.2	1.95	49.5	1248	1857	2800	4167	184
16241.615100	3	1/0	259	0.110	2.8	4	8	0.220	5.6	2.08	52.8	1533	2281	3230	4807	211
16252.271926	3	2/0	329	0.110	2.8	3	8	0.220	5.6	2.20	55.9	1854	2760	3800	5655	243
16241.215300	3	3/0	413	0.110	2.8	2	8	0.235	6.0	2.36	59.9	2322	3456	4475	6660	279
16254.730315	3	4/0	532	0.110	2.8	1	8	0.235	6.0	2.50	63.5	2936	4369	5265	7835	321
16241.216000	3	250	608	0.120	3.0	1/0	6	0.250	6.4	2.69	68.3	3340	4970	6105	9085	355
16241.216300	3	300	741	0.120	3.0	1/0	6	0.250	6.4	2.81	71.4	3962	5897	6875	10231	398
16262.687414	3	350	851	0.120	3.0	2/0	6	0.265	6.7	2.95	74.9	4522	6730	7795	11600	435
16265.570479	3	500	1221	0.120	3.0	4/0	6	0.280	7.1	3.31	84.1	6515	9696	10415	15499	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

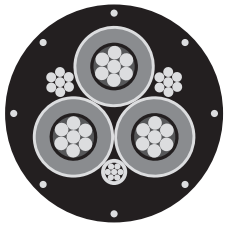
General Cable

MSHA Mine Safety and Health Administration

ANACONDA® BRAND

Anaconda® Brand Type SHD-GC Power, Shielded Round Portable w/Ground-Check, EPR/CPE 5000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 6 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrasting with black conducting layer

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over a non-conducting overlapped tape

Ground-Check Conductor:
- Annealed copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene

Grounding Conductors:
- Coated copper, rope-lay-stranded per ASTM B172
- Two conductors in contact with the flexible copper braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-GC 5000 VOLTS (-50C) FT1 FT5 CSA LR 27161 P-7K-102-046 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - Where service conditions are severe and maximum safety is mandatory (such as power shovels and draglines in open-pit mines, quarries, gantry cranes and slag reclaiming)
  - For high-voltage distribution in underground mines where frequent relocation is necessary

Features:
- Simultaneous extrusion and vulcanization of both strand shield and insulation form a virtually perfect electrode, eliminating unequal electrical stresses

Features (cont'd):
- Excellent heat, moisture, steam, oil, corona, chemical and radiation resistance
- Flexible for easy handling
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection
- Meets CAN/CSA C22.2 No. 96 Portable Power Cables and is certified by Natural Resources Canada

Packaging:
- Material cut to length and shipped on non-returnable reels

6 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/GROUND-CHECK, TYPE SHD-GC - 5000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16241.210600.CA	3	6	133	0.110	2.8	10	8	0.185	4.7	1.56	39.6	540	804	1560	2322	93
16204.858221.CA	3	4	259	0.110	2.8	8	8	0.185	4.7	1.68	42.7	720	1072	1895	2820	122
16202.317964.CA	3	2	259	0.110	2.8	6	8	0.205	5.2	1.87	47.9	1030	1533	2445	3639	159
16201.396409.CA	3	1	259	0.110	2.8	5	8	0.205	5.2	1.95	49.5	1248	1857	2800	4167	184
16241.615100.CA	3	1/0	259	0.110	2.8	4	8	0.220	5.6	2.08	52.8	1533	2281	3230	4807	211
16252.271926.CA	3	2/0	329	0.110	2.8	3	8	0.220	5.6	2.20	55.9	1854	2760	3800	5655	243
16241.215300.CA	3	3/0	413	0.110	2.8	2	8	0.235	6.0	2.36	59.9	2322	3456	4475	6660	279
16254.730315.CA	3	4/0	532	0.110	2.8	1	8	0.235	6.0	2.50	63.5	2936	4369	5265	7835	321
16241.216000.CA	3	250	608	0.120	3.0	1/0	6	0.250	6.4	2.69	68.3	3340	4970	6105	9085	355
16241.216300.CA	3	300	741	0.120	3.0	1/0	6	0.250	6.4	2.81	71.4	3962	5897	6875	10231	398
16262.687414.CA	3	350	851	0.120	3.0	2/0	6	0.265	6.7	2.95	74.9	4522	6730	7795	11600	435
16265.570479.CA	3	500	1221	0.120	3.0	4/0	6	0.280	7.1	3.31	84.1	6515	9696	10415	15499	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

ANACONDA® BRAND

Certified Canadian Standard Association

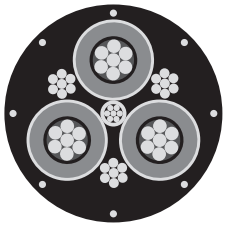
MSHA Mine Safety and Health Administration

General Cable

Anaconda® Brand Type SHD-CGC Power, Shielded Round Portable w/Extensible Ground-Check, EPR/CPE

5000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 1 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrasting with black conducting layer

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over a non-conducting overlapped tape

Ground-Check Conductor:
- Coated copper, specially stranded to provide extensibility without sustaining tensile load, thereby providing maximum resistance to flex fatigue
- Insulated with high-strength polypropylene and placed in the center interstice

Grounding Conductors:
- Three coated copper, rope-lay-stranded per ASTM B172 in contact with the flexible braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-CGC 5000 VOLTS P-7K-102-046 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - Where maximum safety is mandatory, including underground mining machines where induced voltages in an unbalanced grounding system could be hazardous
  - On low- and medium-voltage AC circuits where shielding is desired or required

Features:
- Flexible insulation shield provides shock hazard protection
- Symmetrical grounding system does not produce induced voltages when operating in a balanced 3-phase system

Features (cont'd):
- Excellent heat, moisture, steam, oil, chemical and radiation resistance
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

1 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/EXTENSIBLE GROUND-CHECK, TYPE SHD-CGC - 5000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16299.060100	3	1	259	0.110	2.8	7	16	0.205	5.2	1.98	50.29	1211	1802	2843	4231	184
16299.065100	3	1/0	259	0.110	2.8	6	16	0.220	5.6	2.10	53.34	1473	2192	3319	4939	211
16252.530102	3	2/0	329	0.110	2.8	5	16	0.220	5.6	2.20	55.88	1879	2796	3965	5900	243
16299.065300	3	3/0	413	0.110	2.8	4	16	0.235	6.0	2.36	59.94	2279	3391	4729	7037	279
16299.065400	3	4/0	532	0.110	2.8	3	16	0.235	6.0	2.50	63.50	2838	4223	5626	8372	321
16299.066000	3	250	608	0.120	3.0	2	16	0.250	6.4	2.69	68.33	3406	5068	6488	9655	355
16299.066100	3	300	741	0.120	3.0	1	16	0.250	6.4	2.81	71.37	3698	5503	7141	10627	398
16299.066200	3	350	851	0.120	3.0	1	16	0.265	6.7	2.95	74.93	4287	6379	8061	11996	435
16299.066500	3	500	1221	0.120	3.0	2/0	16	0.280	7.1	3.31	84.07	6500	9673	11514	17134	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

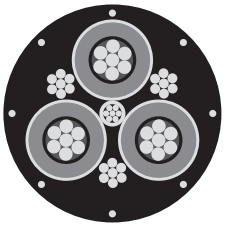
General Cable

MSHA Mine Safety and Health Administration

Anaconda® Brand Type SHD-BGC Power, Shielded Round Portable w/Extensible Ground-Check, EPR/CPE

5000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 1 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrasting with black conducting layer

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over a non-conducting overlapped tape

Ground-Check Conductor:
- Coated copper, specially stranded to provide extensibility without sustaining tensile load, thereby providing maximum resistance to flex fatigue
- Insulated with high-strength polypropylene and placed in the center interstice

Grounding Conductors:
- Three coated copper, rope-lay-stranded per ASTM B172 in contact with the flexible braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-BGC 5000 VOLTS (-50C) FT1 FT5 CSA LR 27161 P-7K-102-046 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - Where maximum safety is mandatory, including underground mining machines where induced voltages in an unbalanced grounding system could be hazardous
  - On low- and medium-voltage AC circuits where shielding is desired or required

Features:
- Flexible insulation shield provides shock hazard protection
- Symmetrical grounding system does not produce induced voltages when operating in a balanced 3-phase system

Features (cont'd):
- Excellent heat, moisture, steam, oil, chemical and radiation resistance
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection
- Meets CAN/CSA C22.2 No. 96 Portable Power Cables and is certified by Natural Resources Canada

Packaging:
- Material cut to length and shipped on non-returnable reels

1 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/EXTENSIBLE GROUND-CHECK, TYPE SHD-BGC - 5000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16299.060100.CA	3	1	259	0.110	2.8	7	16	0.205	5.2	1.98	50.29	1211	1802	2843	4231	184
16299.065100.CA	3	1/0	259	0.110	2.8	6	16	0.220	5.6	2.10	53.34	1473	2192	3319	4939	211
16252.530102.CA	3	2/0	329	0.110	2.8	5	16	0.220	5.6	2.20	55.88	1879	2796	3965	5900	243
16299.065300.CA	3	3/0	413	0.110	2.8	4	16	0.235	6.0	2.36	59.94	2279	3391	4729	7037	279
16299.065400.CA	3	4/0	532	0.110	2.8	3	16	0.235	6.0	2.50	63.50	2838	4223	5626	8372	321
16299.066000.CA	3	250	608	0.120	3.0	2	16	0.250	6.4	2.69	68.33	3406	5068	6488	9655	355
16299.066100.CA	3	300	741	0.120	3.0	1	16	0.250	6.4	2.81	71.37	3698	5503	7141	10627	398
16299.066200.CA	3	350	851	0.120	3.0	1	16	0.265	6.7	2.95	74.93	4287	6379	8061	11996	435
16299.066500.CA	3	500	1221	0.120	3.0	2/0	16	0.280	7.1	3.31	84.07	6500	9673	11514	17134	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

ANACONDA® BRAND

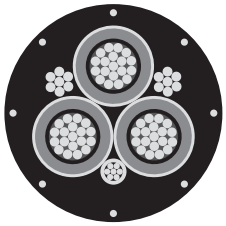
Certified Canadian Standard Association

MSHA Mine Safety and Health Administration

General Cable

Anaconda® Brand Type SHD-GC Power, Shielded Round Portable w/Ground-Check, EPR/CPE 8000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 4 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrast with black conducting layer

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over a conducting overlapped tape

Ground-Check Conductor:
- Annealed copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene

Grounding Conductors:
- Coated copper, rope-lay-stranded per ASTM B172
- Two conductors in contact with the flexible copper braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-GC 8000 VOLTS P-7K-102-046 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - Where service conditions are severe and maximum safety is mandatory (such as power shovels and draglines in open-pit mines, quarries, gantry cranes and slag reclaiming)
  - For high-voltage distribution in underground mines where frequent relocation is necessary

Features:
- Simultaneous extrusion and vulcanization of both strand shield and insulation form a virtually perfect electrode, eliminating unequal electrical stresses

Features (cont'd):
- Excellent heat, moisture, steam, oil, corona, chemical and radiation resistance
- Flexible for easy handling
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

4 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/GROUND-CHECK, TYPE SHD-GC - 8000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16243.310400	3	4	259	0.150	3.8	8	8	0.205	5.2	1.94	49.3	764	1138	2308	3594	122
16243.310200	3	2	259	0.150	3.8	6	8	0.220	5.6	2.12	53.8	1064	1583	2920	4554	159
16243.310100	3	1	259	0.150	3.8	5	8	0.220	5.6	2.21	56.1	1287	1915	3292	5104	184
16243.615100	3	1/0	259	0.150	3.8	4	8	0.220	5.6	2.32	58.9	1553	2311	3675	5700	211
16252.201837	3	2/0	329	0.150	3.8	3	8	0.235	6.0	2.46	62.5	1896	2822	4304	6593	243
16243.615300	3	3/0	413	0.150	3.8	2	8	0.250	6.4	2.62	66.5	2329	3466	5200	7738	279
16254.709412	3	4/0	532	0.150	3.8	1	8	0.250	6.4	2.75	69.8	2889	4299	5840	8713	321
16243.616000	3	250	608	0.150	3.8	1/0	6	0.250	6.4	2.89	73.4	3434	5111	6774	9948	355
16243.616100	3	300	741	0.150	3.8	1/0	6	0.265	6.7	3.04	77.2	3975	5915	7423	11384	398
16243.616200	3	350	851	0.150	3.8	2/0	6	0.280	7.1	3.21	81.3	4522	6730	8543	12739	435
16243.616500	3	500	1221	0.150	3.8	4/0	6	0.295	7.5	3.56	90.4	6566	9771	11260	16757	536

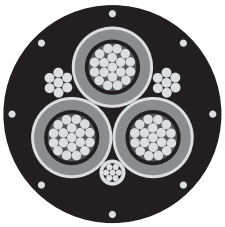
Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

General Cable

MSHA Mine Safety and Health Administration

Anaconda® Brand Type SHD-GC Power, Shielded Round Portable w/Ground-Check, EPR/CPE 8000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 4 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrast with black conducting layer

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over a conducting overlapped tape

Ground-Check Conductor:
- Annealed copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene

Grounding Conductors:
- Coated copper, rope-lay-stranded per ASTM B172
- Two conductors in contact with the flexible copper braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-GC 8000 VOLTS (-50C) FT1 FT5 CSA LR 27161 P-7K-102-046 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - Where service conditions are severe and maximum safety is mandatory (such as power shovels and draglines in open-pit mines, quarries, gantry cranes and slag reclaiming)
  - For high-voltage distribution in underground mines where frequent relocation is necessary

Features:
- Simultaneous extrusion and vulcanization of both strand shield and insulation form a virtually perfect electrode, eliminating unequal electrical stresses

Features (cont'd):
- Excellent heat, moisture, steam, oil, corona, chemical and radiation resistance
- Flexible for easy handling
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection
- Meets CAN/CSA C22.2 No. 96 Portable Power Cables and is certified by Natural Resources Canada

Packaging:
- Material cut to length and shipped on non-returnable reels

4 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/GROUND-CHECK, TYPE SHD-GC - 8000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16243.310400.CA	3	4	259	0.150	3.8	8	8	0.205	5.2	1.94	49.3	764	1138	2308	3594	122
16243.310200.CA	3	2	259	0.150	3.8	6	8	0.220	5.6	2.12	53.8	1064	1583	2920	4554	159
16243.310100.CA	3	1	259	0.150	3.8	5	8	0.220	5.6	2.21	56.1	1287	1915	3292	5104	184
16243.615100.CA	3	1/0	259	0.150	3.8	4	8	0.220	5.6	2.32	58.9	1553	2311	3675	5700	211
16252.201837.CA	3	2/0	329	0.150	3.8	3	8	0.235	6.0	2.46	62.5	1896	2822	4304	6593	243
16243.615300.CA	3	3/0	413	0.150	3.8	2	8	0.250	6.4	2.62	66.5	2329	3466	5200	7738	279
16254.709412.CA	3	4/0	532	0.150	3.8	1	8	0.250	6.4	2.75	69.8	2889	4299	5840	8713	321
16243.616000.CA	3	250	608	0.150	3.8	1/0	6	0.250	6.4	2.89	73.4	3434	5111	6774	9948	355
16243.616100.CA	3	300	741	0.150	3.8	1/0	6	0.265	6.7	3.04	77.2	3975	5915	7423	11384	398
16243.616200.CA	3	350	851	0.150	3.8	2/0	6	0.280	7.1	3.21	81.3	4522	6730	8543	12739	435
16243.616500.CA	3	500	1221	0.150	3.8	4/0	6	0.295	7.5	3.56	90.4	6566	9771	11260	16757	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

ANACONDA® BRAND

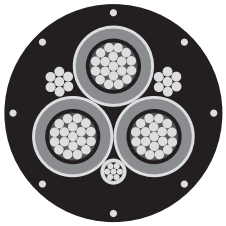
Certified Canadian Standard Association

MSHA Mine Safety and Health Administration

General Cable

Anaconda® Brand Type SHD-GC Power, Shielded Round Portable w/Ground-Check, EPR/CPE 15000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 2 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrast with black conducting layer

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over a conducting overlapped tape

Ground-Check Conductor:
- Annealed copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene

Grounding Conductors:
- Coated copper, rope-lay-stranded per ASTM B172
- Two conductors in contact with the flexible copper braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-GC 15000 VOLTS P-7K-102-046 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - Where service conditions are severe and maximum safety is mandatory (such as power shovels and draglines in open-pit mines, quarries,gantry cranes and slag reclaiming)
  - For high-voltage distribution in underground mines where frequent relocation is necessary

Features:
- Simultaneous extrusion and vulcanization of both strand shield and insulation form a virtually perfect electrode, eliminating unequal electrical stresses

Features (cont'd):
- Excellent heat, moisture, steam, oil, corona, chemical and radiation resistance
- Flexible for easy handling
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

2 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/GROUND-CHECK, TYPE SHD-GC - 15000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16245.310200	3	2	259	0.210	5.3	6	8	0.235	6.0	2.41	61.2	870	1295	3572	5529	164
16245.310100	3	1	259	0.210	5.3	5	8	0.235	6.0	2.52	64.0	1307	1946	4060	6042	187
16245.315100	3	1/0	259	0.210	5.3	4	8	0.250	6.4	2.64	67.0	1574	2342	4495	6927	215
16299.625200	3	2/0	329	0.210	5.3	3	8	0.250	6.4	2.73	69.3	1930	2872	5010	7783	246
16245.615300	3	3/0	413	0.210	5.3	2	8	0.265	6.7	2.90	73.7	2359	3511	5995	8922	283
16245.615400	3	4/0	532	0.210	5.3	1	8	0.265	6.7	3.05	77.5	2973	4425	6860	10209	325
16245.616000	3	250	608	0.210	5.3	1/0	6	0.265	6.7	3.10	78.74	3447	5129	7492	11149	359
16245.616200	3	350	851	0.210	5.3	2/0	6	0.280	7.1	3.39	85.98	4522	6731	8866	13194	437
16245.616500	3	500	1221	0.210	5.3	4/0	6	0.280	7.1	3.65	92.71	6706	9979	11735	17463	534

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

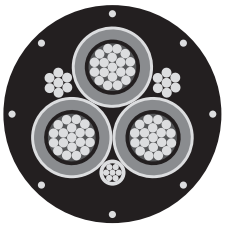
General Cable

MSHA Mine Safety and Health Administration

ANACONDA® BRAND

Anaconda® Brand Type SHD-GC Power, Shielded Round Portable w/Ground-Check, EPR/CPE 15000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 2 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrast with black conducting layer

Insulation Shield:
- A flexible coated copper/textile braid shield is applied over a conducting overlapped tape

Ground-Check Conductor:
- Annealed copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene

Grounding Conductors:
- Coated copper, rope-lay-stranded per ASTM B172
- Two conductors in contact with the flexible copper braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-GC 15000 VOLTS (-50C) FT1 FT5 CSA LR 27161 P-7K-102-046 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - Where service conditions are severe and maximum safety is mandatory (such as power shovels and draglines in open-pit mines, quarries,gantry cranes and slag reclaiming)
  - For high-voltage distribution in underground mines where frequent relocation is necessary

Features:
- Simultaneous extrusion and vulcanization of both strand shield and insulation form a virtually perfect electrode, eliminating unequal electrical stresses

Features (cont'd):
- Excellent heat, moisture, steam, oil, corona, chemical and radiation resistance
- Flexible for easy handling
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection
- Meets CAN/CSA C22.2 No. 96 Portable Power Cables and is certified by Natural Resources Canada

Packaging:
- Material cut to length and shipped on non-returnable reels

2 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/GROUND-CHECK, TYPE SHD-GC - 15000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16245.310200.CA	3	2	259	0.210	5.3	6	8	0.235	6.0	2.41	61.2	870	1295	3572	5529	164
16245.310100.CA	3	1	259	0.210	5.3	5	8	0.235	6.0	2.52	64.0	1307	1946	4060	6042	187
16245.315100.CA	3	1/0	259	0.210	5.3	4	8	0.250	6.4	2.64	67.0	1574	2342	4495	6927	215
16299.625200.CA	3	2/0	329	0.210	5.3	3	8	0.250	6.4	2.73	69.3	1930	2872	5010	7783	246
16245.615300.CA	3	3/0	413	0.210	5.3	2	8	0.265	6.7	2.90	73.7	2359	3511	5995	8922	283
16245.615400.CA	3	4/0	532	0.210	5.3	1	8	0.265	6.7	3.05	77.5	2973	4425	6860	10209	325
16245.616000.CA	3	250	608	0.210	5.3	1/0	6	0.265	6.7	3.10	78.74	3447	5129	7492	11149	359
16245.616200.CA	3	350	851	0.210	5.3	2/0	6	0.280	7.1	3.39	85.98	4522	6731	8866	13194	437
16245.616500.CA	3	500	1221	0.210	5.3	4/0	6	0.280	7.1	3.65	92.71	6706	9979	11735	17463	534

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

ANACONDA® BRAND

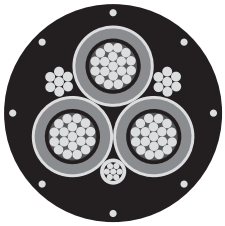
Certified Canadian Standard Association

MSHA Mine Safety and Health Administration

General Cable

Anaconda® Brand Type SHD-GC Power, Shielded Round Portable w/Ground-Check, EPR/CPE 25000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 1 AWG thru 350 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrast with black conducting layers

Insulation Shield:
- An extruded conducting layer covered by a conducting tape, and a flexible coated copper/ textile braid shield overall provides greater mechanical protection than an equal thickness of insulation

Ground-Check Conductor:
- Annealed copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene

Grounding Conductors:
- Coated copper, rope-lay-stranded per ASTM B172
- Two conductors in contact with the flexible copper braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-GC 25000 VOLTS P-7K-102-046 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - Where service conditions are severe and maximum safety is mandatory (such as power shovels and draglines in open-pit mines, quarries, gantry cranes and slag reclaiming)
  - For high-voltage distribution in underground mines where frequent relocation is necessary

Features:
- Simultaneous extrusion and vulcanization of the strand shield, insulation and insulation shield form a virtually perfect electrode, eliminating unequal electrical stresses
- Excellent heat, moisture, steam, oil, corona, chemical and radiation resistance

Features (cont'd):
- Flexible for easy handling
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

1 AWG THRU 350 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/GROUND-CHECK, TYPE SHD-GC - 25000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16247.310100	3	1	259	0.260	6.6	5	8	0.265	6.7	2.95	74.93	1306	1943	5290	7872	191
16247.315100	3	1/0	259	0.260	6.6	4	8	0.265	6.7	3.05	77.47	1556	2315	5800	8631	218
16247.315200	3	2/0	329	0.260	6.6	3	8	0.280	7.1	3.20	81.28	1888	2810	6515	9695	249
16247.615300	3	3/0	413	0.260	6.6	2	8	0.280	7.1	3.33	84.58	2303	3428	7215	10737	286
16247.615400	3	4/0	532	0.260	6.6	1	8	0.295	7.5	3.50	88.90	2889	4300	8250	12277	327
16247.616000	3	250	608	0.260	6.6	1/0	6	0.295	7.5	3.54	89.92	3486	5188	9066	13491	360
16247.956200	3	350	851	0.260	6.6	2/0	6	0.295	7.5	3.79	96.37	4579	6815	10118	15057	439

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

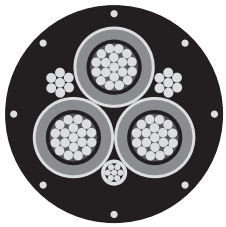
General Cable

MSHA Mine Safety and Health Administration

ANACONDA® BRAND

Anaconda® Brand Type SHD-GC Power, Shielded Round Portable w/Ground-Check, EPR/CPE 25000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 1 AWG thru 350 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrast with black conducting layers

Insulation Shield:
- An extruded conducting layer covered by a conducting tape, and a flexible coated copper/ textile braid shield overall provides greater mechanical protection than an equal thickness of insulation

Ground-Check Conductor:
- Annealed copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene

Grounding Conductors:
- Coated copper, rope-lay-stranded per ASTM B172
- Two conductors in contact with the flexible copper braid shield

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE SHD-GC 25000 VOLTS (-50C) FT1 FT5 CSA LR 27161 P-7K-102-046 MSHA

Options:
- Colored jackets are available
- TPU (Thermoplastic Polyurethane) jacket
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - Where service conditions are severe and maximum safety is mandatory (such as power shovels and draglines in open-pit mines, quarries, gantry cranes and slag reclaiming)
  - For high-voltage distribution in underground mines where frequent relocation is necessary

Features:
- Simultaneous extrusion and vulcanization of the strand shield, insulation and insulation shield form a virtually perfect electrode, eliminating unequal electrical stresses
- Excellent heat, moisture, steam, oil, corona, chemical and radiation resistance

Features (cont'd):
- Flexible for easy handling
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection
- Meets CAN/CSA C22.2 No. 96 Portable Power Cables and is certified by Natural Resources Canada

Packaging:
- Material cut to length and shipped on non-returnable reels

1 AWG THRU 350 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/GROUND-CHECK, TYPE SHD-GC - 25000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16247.310100.CA	3	1	259	0.260	6.6	5	8	0.265	6.7	2.95	74.93	1306	1943	5290	7872	191
16247.315100.CA	3	1/0	259	0.260	6.6	4	8	0.265	6.7	3.05	77.47	1556	2315	5800	8631	218
16247.315200.CA	3	2/0	329	0.260	6.6	3	8	0.280	7.1	3.20	81.28	1888	2810	6515	9695	249
16247.615300.CA	3	3/0	413	0.260	6.6	2	8	0.280	7.1	3.33	84.58	2303	3428	7215	10737	286
16247.615400.CA	3	4/0	532	0.260	6.6	1	8	0.295	7.5	3.50	88.90	2889	4300	8250	12277	327
16247.616000.CA	3	250	608	0.260	6.6	1/0	6	0.295	7.5	3.54	89.92	3486	5188	9066	13491	360
16247.956200.CA	3	350	851	0.260	6.6	2/0	6	0.295	7.5	3.79	96.37	4579	6815	10118	15057	439

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

ANACONDA® BRAND

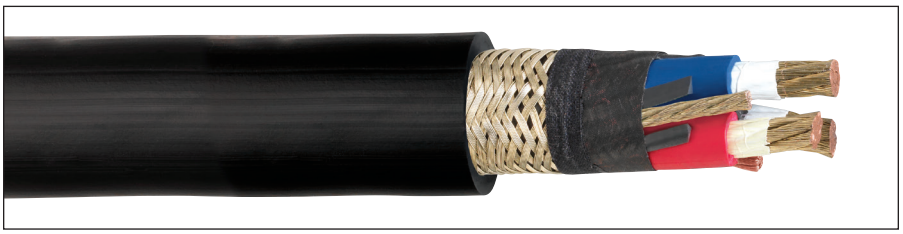
Certified Canadian Standard Association

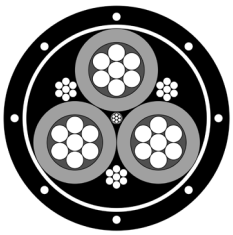
MSHA Mine Safety and Health Administration

General Cable

Anaconda® Brand Type VFD-BGC Power, Shielded Round Portable w/Extensible Ground-Check, EPR/CPE

2000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 2 AWG thru 500 kcmil coated annealed copper, bunched wires, rope-lay-stranded per ASTM B172

Insulation:
- Ethylene Propylene Rubber (EPR) insulation, colored

Ground-Check Conductor:
- Coated copper, specially stranded to provide extensibility without sustaining tensile load, thereby providing maximum resistance to flex fatigue
- Insulated with high-strength polypropylene and placed in the center interstice

Grounding Conductors:
- Three coated copper, rope-lay-stranded per ASTM B172

Shield:
- A flexible coated copper braid shield under an aluminum tape provides protection from radiated noise and a low transfer impedance path for the high frequency components of PWM signals

Jacket:
- Reinforced, two-layer, extra-heavy-duty, lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE VFD-BGC 2000 VOLTS 07-KA140006 MSHA

Options:
- Colored jackets are available
- Anamaxx® jacket

Applications:
- Designed for use as a trailing cable on AC mining equipment:
  - From the inverter to the motor on variable frequency drive (PWM) systems
  - Where radiated EMI is causing interference with nearby systems
  - Where a ground-check conductor is required for fail-safe ground monitoring
  - With wireless ground monitoring systems

Features:
- Flexible overall shield provides shock hazard protection
- Symmetrical grounding system does not produce induced voltages when operating in a balanced three-phase system and minimizes common mode current in PWM drive systems
- Enhanced ground-check conductor has longer flex life and durability
- Excellent heat, moisture, steam, oil, chemical and radiation resistance

Features (cont'd):
- Flexible for easy handling
- Resists cutting, impact, abrasion, flame and sunlight
- Excellent thermal stability and physical properties over a broad temperature range
- Two-layer jacket is reinforced to provide maximum protection from mechanical damage—the cause of most portable cable failures

Compliances:
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection

Packaging:
- Material cut to length and shipped on non-returnable reels

2 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, SHIELDED ROUND PORTABLE W/EXTENSIBLE GROUND-CHECK, TYPE VFD-BGC - 2000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
13373.030200	3	2	259	0.070	1.8	8	16	0.155	3.9	1.45	35.6	914	612	1620	2410	159
13373.030100	3	1	259	0.080	2.0	7	16	0.170	4.3	1.64	41.6	1135	761	2050	3050	184
13373.035100	3	1/0	259	0.080	2.0	6	16	0.170	4.3	1.74	44.2	1407	943	2420	3600	211
13373.035200	3	2/0	329	0.080	2.0	5	16	0.170	4.3	1.81	46.0	1739	1165	2790	4160	243
13373.035300	3	3/0	413	0.080	2.0	4	16	0.170	4.3	1.93	49.0	2149	1440	3850	5730	279
13373.035400	3	4/0	532	0.080	2.0	3	16	0.190	4.8	2.09	53.2	2746	1840	4170	6210	321
13373.036000	3	250	608	0.095	2.4	3	16	0.190	4.8	2.32	59.0	3102	2078	5660	8425	355
13373.036200	3	350	851	0.095	2.4	1	16	0.220	5.6	2.64	67.0	4384	2937	7480	11132	435
13373.036500	3	500	1221	0.095	2.4	1/0	16	0.220	5.6	2.95	75.0	6072	4068	9250	13770	536

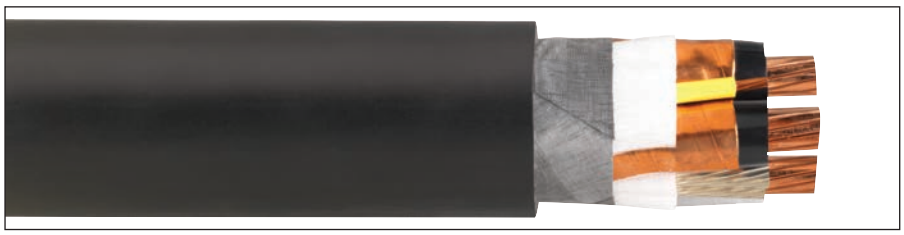
Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

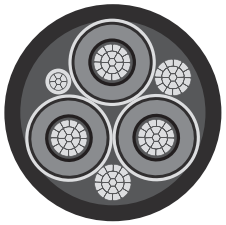
General Cable

MSHA Mine Safety and Health Administration

ANACONDA® BRAND

Anaconda® Brand Type MP-GC (Uniblend® EPR), Mine Power Feeder w/Ground-Check, EPR/CPE 5000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 6 AWG thru 500 kcmil annealed bare copper, Compact Class B strand

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrast with black conducting layers

Extruded Insulation Shield (EIS):
- Extruded thermosetting semi-conducting layer, free stripping from insulation with color-coded (black, white and red) marker strip placed under the copper tape

Insulation Shield:
- Overlapped annealed copper tape

Ground-Check Conductor:
- Annealed copper Class B strand, insulated with yellow polypropylene

Grounding Conductors:
- Two coated annealed copper conductors, Class B strand

Jacket:
- Lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE MP-GC 5000 VOLTS P-07-KA110019-MSHA

Options:
- Colored jackets are available
- CSA compliance available upon request

Applications:
- Provides high-voltage distribution intended for permanent installations
- Designed for use:
  - In underground mining and bore holes
  - In aerial installations, ducts or direct burial

Features:
- Excellent heat, moisture, oil, corona, chemical and radiation resistance
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Triple extrusion forms a virtually perfect electrode, eliminating unequal electrical stresses
- Tough and reliable
- Highly resistant to tearing, punctures, abrasions, oil and flame

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection
- Meets CAN/CSA C22.2 No. 96.1 Mine Power Feeder Cables

Packaging:
- Material cut to length and shipped on non-returnable reels

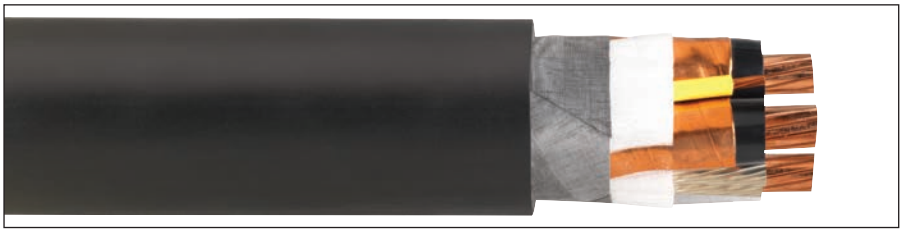
6 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, MINE POWER FEEDER W/GROUND-CHECK, TYPE MP-GC (UNIBLEND® EPR) - 5000 VOLTS*

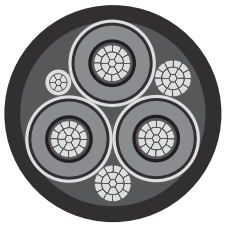
CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)/ COND. STRAND		GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm				INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16361.910600	3	6	7	0.090	2.3	10	7	8	0.110	2.8	1.30	33.0	468	696	1060	1577	93
16361.910400	3	4	7	0.090	2.3	8	7	8	0.110	2.8	1.41	35.8	664	988	1325	1972	122
16361.910200	3	2	7	0.090	2.3	6	7	8	0.110	2.8	1.47	37.3	970	1444	1651	2457	159
16361.910100	3	1	19	0.090	2.3	5	7	8	0.110	2.8	1.54	39.1	1186	1764	1918	2854	184
16361.915100	3	1/0	19	0.090	2.3	4	7	8	0.110	2.8	1.63	41.4	1453	2162	2244	3339	211
16361.915200	3	2/0	19	0.090	2.3	3	7	8	0.110	2.8	1.72	43.7	1623	2415	2644	3935	243
16361.915300	3	3/0	19	0.090	2.3	2	7	8	0.140	3.6	1.89	48.0	2215	3296	3265	4859	279
16361.915400	3	4/0	19	0.090	2.3	1	19	8	0.140	3.6	2.01	51.0	2749	4091	3890	5789	321
16361.916000	3	250	37	0.090	2.3	1/0	19	8	0.140	3.6	2.10	53.3	3263	4857	4474	6658	355
16361.916200	3	350	37	0.090	2.3	2/0	19	8	0.140	3.6	2.31	58.7	4401	6549	5765	8579	435
16361.916500	3	500	37	0.090	2.3	4/0	19	8	0.140	3.6	2.59	65.8	6335	9428	7906	11765	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.
*100% insulation level, grounded.

ANACONDA® BRAND ICEA MSHA Mine Safety and Health Administration General Cable

Anaconda® Brand Type MP-GC (Uniblend® EPR), Mine Power Feeder w/Ground-Check, EPR/CPE 8000 Volts, 90˚C, Three Conductor





Product Construction

Conductor:
- 6 AWG thru 500 kcmil annealed bare copper, Compact Class B strand

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrast with black conducting layers

Extruded Insulation Shield (EIS):
- Extruded thermosetting semi-conducting layer, free stripping from insulation with color-coded (black, white and red) marker strip placed under the copper tape

Insulation Shield:
- Overlapped annealed copper tape

Ground-Check Conductor:
- Annealed copper Class B strand, insulated with yellow polypropylene

Grounding Conductors:
- Two coated annealed copper conductors, Class B strand

Jacket:
- Lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE MP-GC 8000 VOLTS P-07-KA110019-MSHA

Options:
- Colored jackets are available
- CSA compliance available upon request

Applications:
- Provides high-voltage distribution intended for permanent installations
- Designed for use:
  - In underground mining and bore holes
  - In aerial installations, ducts or direct burial

Features:
- Excellent heat, moisture, oil, corona, chemical and radiation resistance
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Triple extrusion forms a virtually perfect electrode, eliminating unequal electrical stresses
- Tough and reliable
- Highly resistant to tearing, punctures, abrasions, oil and flame

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection
- Meets CAN/CSA C22.2 No. 96.1 Mine Power Feeder Cables

Packaging:
- Material cut to length and shipped on non-returnable reels

6 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, MINE POWER FEEDER W/GROUND-CHECK, TYPE MP-GC (UNIBLEND® EPR) - 8000 VOLTS*

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)/ COND. STRAND		GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm				INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16363.910600	3	6	7	0.115	2.9	10	7	8	0.110	2.8	1.41	35.8	478	712	1175	1749	93
16363.910400	3	4	7	0.115	2.9	8	7	8	0.110	2.8	1.52	38.6	674	1003	1455	2165	122
16363.910200	3	2	7	0.115	2.9	6	7	8	0.110	2.8	1.58	40.1	981	1459	1787	2659	159
16363.910100	3	1	19	0.115	2.9	5	7	8	0.110	2.8	1.66	42.2	1196	1780	2059	3064	184
16363.915100	3	1/0	19	0.115	2.9	4	7	8	0.110	2.8	1.74	44.2	1463	2177	2378	3539	211
16363.915200	3	2/0	19	0.115	2.9	3	7	8	0.140	3.6	1.90	48.3	1801	2681	2912	4334	243
16363.915300	3	3/0	19	0.115	2.9	2	7	8	0.140	3.6	2.00	50.8	2225	3311	3432	5107	279
16354.552364	3	4/0	19	0.115	2.9	1	19	8	0.140	3.6	2.12	53.8	2671	3975	4056	6035	321
16363.916000	3	250	37	0.115	2.9	1/0	19	8	0.140	3.6	2.22	56.4	2909	4330	4647	6915	355
16363.916200	3	350	37	0.115	2.9	2/0	19	8	0.140	3.6	2.43	61.7	4411	6565	5979	8898	435
16363.916500	3	500	37	0.115	2.9	4/0	19	8	0.140	3.6	2.70	68.6	6346	9443	8150	12129	536

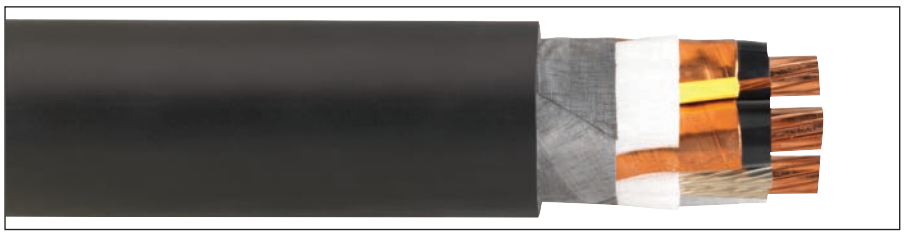
Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weights may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.
*100% insulation level, grounded.

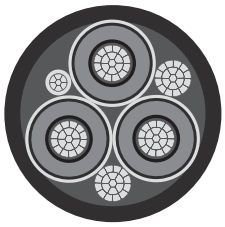
General Cable

MSHA Mine Safety and Health Administration

ANACONDA® BRAND

Anaconda® Brand Type MP-GC (Uniblend® EPR), Mine Power Feeder w/Ground-Check, EPR/CPE 15000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 2 AWG thru 500 kcmil annealed bare copper, Compact Class B strand

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrast with black conducting layers

Extruded Insulation Shield (EIS):
- Extruded thermosetting semi-conducting layer, free stripping from insulation with color-coded (black, white and red) marker strip placed under the copper tape

Insulation Shield:
- Overlapped annealed copper tape

Ground-Check Conductor:
- Annealed copper Class B strand, insulated with yellow polypropylene

Grounding Conductors:
- Two coated annealed copper conductors, Class B strand

Jacket:
- Lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE MP-GC 15000 VOLTS P-07-KA110019-MSHA

Options:
- Colored jackets are available
- CSA compliance available upon request

Applications:
- Provides high-voltage distribution intended for permanent installations
- Designed for use:
  - In underground mining and bore holes
  - In aerial installations, ducts or direct burial

Features:
- Excellent heat, moisture, oil, corona, chemical and radiation resistance
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Triple extrusion forms a virtually perfect electrode, eliminating unequal electrical stresses
- Tough and reliable
- Highly resistant to tearing, punctures, abrasions, oil and flame

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection
- Meets CAN/CSA C22.2 No. 96.1 Mine Power Feeder Cables

Packaging:
- Material cut to length and shipped on non-returnable reels

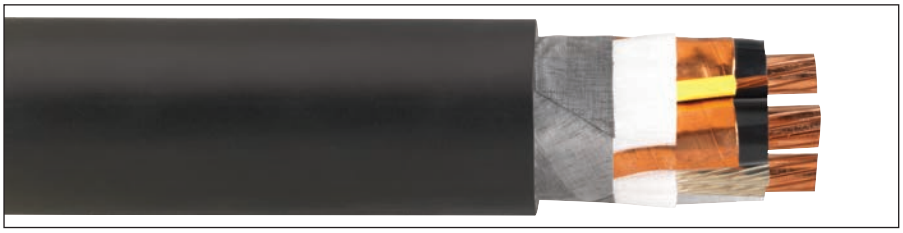
2 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, MINE POWER FEEDER W/GROUND-CHECK, TYPE MP-GC (UNIBLEND® EPR) - 15000 VOLTS*

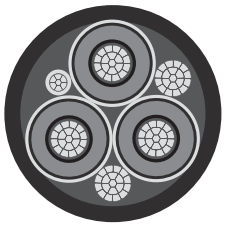
CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16365.910200	3	2	7	0.175	4.4	6	8	0.140	3.6	1.90	48.3	938	1395	2248	3345	164
16365.910100	3	1	19	0.175	4.4	5	8	0.140	3.6	1.99	50.6	1122	1669	2552	3798	187
16365.915100	3	1/0	19	0.175	4.4	4	8	0.140	3.6	2.07	52.6	1490	2218	2901	4317	215
16365.915200	3	2/0	19	0.175	4.4	3	8	0.140	3.6	2.16	54.9	1808	2691	3341	4972	246
16365.915300	3	3/0	19	0.175	4.4	2	8	0.140	3.6	2.27	57.7	2252	3352	3878	5771	283
16354.396889	3	4/0	19	0.175	4.4	1	8	0.140	3.6	2.39	60.7	2688	4000	4541	6758	325
16365.916000	3	250	37	0.175	4.4	1/0	8	0.140	3.6	2.48	63.0	3269	4865	5145	7657	359
16362.279989	3	350	37	0.175	4.4	2/0	8	0.140	3.6	2.70	68.6	4309	6412	6517	9698	438
16365.916500	3	500	37	0.175	4.4	4/0	8	0.170	4.3	3.08	78.2	6208	9239	9058	13480	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.
*100% insulation level, grounded.

ANACONDA® BRAND ICEA MSHA Mine Safety and Health Administration General Cable

Anaconda® Brand Type MP-GC (Uniblend® EPR), Mine Power Feeder w/Ground-Check, EPR/CPE 25000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 1 AWG thru 500 kcmil annealed bare copper, Compact Class B strand

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over conductor

Insulation:
- Ethylene Propylene Rubber (EPR) insulation colored for contrast with black conducting layers

Extruded Insulation Shield (EIS):
- Extruded thermosetting semi-conducting layer, free stripping from insulation with color-coded (black, white and red) marker strip placed under the copper tape

Insulation Shield:
- Overlapped annealed copper tape

Ground-Check Conductor:
- Annealed copper Class B strand, insulated with yellow polypropylene

Grounding Conductors:
- Two coated annealed copper conductors, Class B strand

Jacket:
- Lead-cured Chlorinated Polyethylene (CPE)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE MP-GC 25000 VOLTS P-07-KA110019-MSHA

Options:
- Colored jackets are available
- CSA compliance available upon request

Applications:
- Provides high-voltage distribution intended for permanent installations
- Designed for use:
  - In underground mining and bore holes
  - In aerial installations, ducts or direct burial

Features:
- Excellent heat, moisture, oil, corona, chemical and radiation resistance
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Triple extrusion forms a virtually perfect electrode, eliminating unequal electrical stresses
- Tough and reliable
- Highly resistant to tearing, punctures, abrasions, oil and flame

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Approved by the Pennsylvania Department of Environmental Protection
- Meets CAN/CSA C22.2 No. 96.1 Mine Power Feeder Cables

Packaging:
- Material cut to length and shipped on non-returnable reels

1 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, MINE POWER FEEDER W/GROUND-CHECK, TYPE MP-GC (UNIBLEND® EPR) - 25000 VOLTS*

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG/ kcmil)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
16367.910100	3	1	19	0.260	6.4	5	8	0.140	3.6	2.37	60.2	1261	1877	3435	5112	187
16367.915100	3	1/0	19	0.260	6.4	4	8	0.140	3.6	2.45	62.2	1528	2275	3815	5677	218
16367.915200	3	2/0	19	0.260	6.4	3	8	0.140	3.6	2.54	64.5	1866	2778	4290	6384	249
16367.915300	3	3/0	19	0.260	6.4	2	8	0.140	3.6	2.65	67.3	2290	3409	4875	7255	286
16367.915400	3	4/0	19	0.260	6.4	1	8	0.140	3.6	2.81	71.4	2825	4204	5665	8430	327
16367.916000	3	250	37	0.260	6.4	1/0	8	0.170	4.3	2.97	75.4	3339	4969	6495	9666	360
16367.916200	3	350	37	0.260	6.4	2/0	8	0.170	4.3	3.18	80.8	4326	6439	7970	11860	438
16367.916500	3	500	37	0.260	6.4	4/0	8	0.170	4.3	3.45	87.6	6411	9541	10300	15328	536

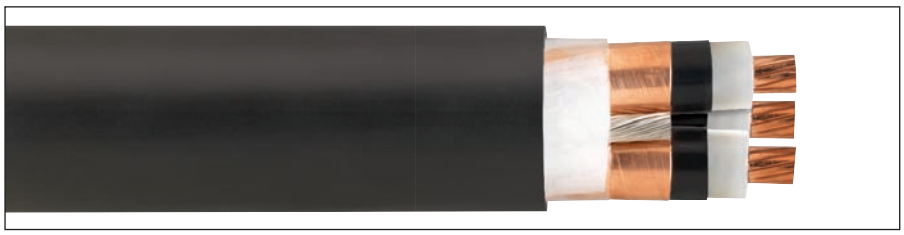
Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.
*100% insulation level, grounded.

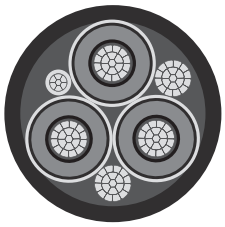
General Cable

MSHA Mine Safety and Health Administration

ANACONDA® BRAND

Anaconda® Brand Type MP-GC, Mine Power Feeder w/Ground-Check, XLPE/PVC 8000 Volts, 90˚C, Three Conductor





Product Construction

Conductor:
- 2 AWG thru 500 kcmil annealed compact bare copper, in accordance with ASTM B8

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over the conductor

Insulation:
- Cross-Linked Polyethylene (XLPE) insulation

Extruded Insulation Shield (EIS):
- Extruded thermosetting semi-conducting layer, free stripping from insulation with a color-coded (black, white and red) marker strip placed under the copper tape

Insulation Shield:
- Overlapped annealed copper tape

Ground-Check Conductor:
- Annealed copper Class B strand, insulated with yellow compound

Grounding Conductors:
- Two bare annealed copper conductors, Class B strand

Jacket:
- Heavy-duty Polyvinyl Chloride (PVC)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE MP-GC 8000 VOLTS P-125-25 MSHA

Options:
- Colored jackets are available
- CSA compliance available upon request

Applications:
- Provides high-voltage distribution intended for permanent installations
- Designed for use:
  -In underground mining and bore holes
  -In aerial installations, ducts or direct burial

Features:
- Excellent moisture, oil, chemical and corona resistance
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Tough and reliable
- Highly resistant to tearing, punctures, abrasions and oils

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Meets CAN/CSA C22.2 No. 96.1 Mine Power Feeder Cables

Packaging:
- Material cut to length and shipped on non-returnable reels

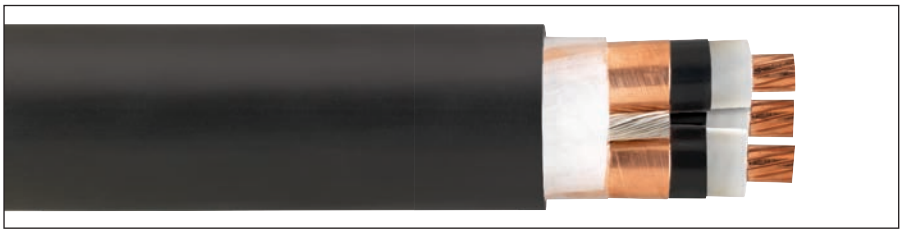
2 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, MINE POWER FEEDER W/GROUND-CHECK, TYPE MP-GC - 8000 VOLTS

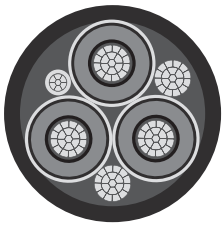
CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
37017.99.01	3	2	7	0.115	2.92	6	8	0.110	2.8	1.58	40.13	827	1231	1774	2640	159
37019.99.01	3	2/0	19	0.115	2.92	3	8	0.140	3.6	1.88	47.75	1791	2665	2737	4073	243
37021.99.01	3	4/0	19	0.115	2.92	1	8	0.140	3.6	2.12	53.80	2613	3888	3815	5677	321
37022.99.01	3	250	37	0.115	2.92	1/0	8	0.140	3.6	2.25	57.15	3288	4893	4575	6808	355
37024.99.01	3	350	37	0.115	2.92	2/0	8	0.140	3.6	2.46	62.48	4426	6586	5872	8738	435
37026.99.01	3	500	37	0.115	2.92	4/0	8	0.140	3.6	2.75	69.85	6295	9368	7962	11348	536

Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

ANACONDA® BRAND ICEA MSHA Mine Safety and Health Administration General Cable

Anaconda® Brand Type MP-GC, Mine Power Feeder w/Ground-Check, XLPE/PVC 15000 Volts, 90°C, Three Conductor





Product Construction

Conductor:
- 2 AWG thru 500 kcmil annealed compact bare copper, in accordance with ASTM B8

Extruded Strand Shield (ESS):
- Extruded thermosetting semi-conducting stress control layer over the conductor

Insulation:
- Cross-Linked Polyethylene (XLPE) insulation

Extruded Insulation Shield (EIS):
- Extruded thermosetting semi-conducting layer, free stripping from insulation with a color-coded (black, white and red) marker strip placed under the copper tape

Insulation Shield:
- Overlapped annealed copper tape

Ground-Check Conductor:
- Annealed copper Class B strand, insulated with yellow compound

Grounding Conductors:
- Two bare annealed copper conductors, Class B strand

Jacket:
- Heavy-duty Polyvinyl Chloride (PVC)

Jacket Marking:
- GENERAL CABLE® ANACONDA® BRAND (SIZE) 3/C TYPE MP-GC 15000 VOLTS P-125-25 MSHA

Options:
- Colored jackets are available
- CSA compliance available upon request

Applications:
- Provides high-voltage distribution intended for permanent installations
- Designed for use:
  -In underground mining and bore holes
  -In aerial installations, ducts or direct burial

Features:
- Excellent moisture, oil, chemical and corona resistance
- High dielectric strength
- Electrical stability under stress
- Low dielectric loss
- Tough and reliable
- Highly resistant to tearing, punctures, abrasions and oils

Compliances:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications
- Meets flame test requirements and is accepted for listing by MSHA
- Meets CAN/CSA C22.2 No. 96.1 Mine Power Feeder Cables

Packaging:
- Material cut to length and shipped on non-returnable reels

2 AWG THRU 500 KCMIL CONDUCTORS, THREE CONDUCTOR, MINE POWER FEEDER W/GROUND-CHECK, TYPE MP-GC - 15000 VOLTS

CATALOG NUMBER	NO. OF COND.	COND. SIZE (AWG)	COND. STRAND	NOMINAL INSULATION THICKNESS		GRD. COND. SIZE (AWG)	GRD-CHECK COND. SIZE (AWG)	NOMINAL JACKET THICKNESS		NOMINAL CABLE O.D.		COPPER WEIGHT		NET WEIGHT		AMPACITY
				INCHES	mm			INCHES	mm	INCHES	mm	LBS/ 1000 FT	kg/ km	LBS/ 1000 FT	kg/ km	
37032.99.01	3	2	7	0.175	4.46	6	8	0.140	3.6	1.95	49.50	938	1396	1972	2935	164
37035.99.01	3	2/0	19	0.175	4.46	3	8	0.140	3.6	2.13	54.10	1808	2691	3105	4621	246
37037.99.01	3	4/0	19	0.175	4.46	1	8	0.140	3.6	2.36	59.90	2688	4000	4150	6176	325
37038.99.01	3	250	37	0.175	4.46	1/0	8	0.140	3.6	2.50	63.58	3317	4936	4997	7436	359
37040.99.01	3	350	37	0.175	4.46	2/0	8	0.140	3.6	2.75	69.85	4311	6415	6270	9330	438
37042.99.01	3	500	37	0.175	4.46	4/0	8	0.170	4.3	3.10	78.74	6330	9420	8682	12920	536

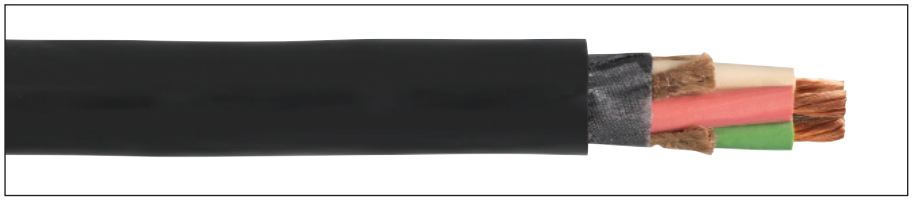
Stock items are available in long lengths for cutting to your specifications. All lengths are subject to a tolerance of +/-5%.
Dimensions and weights shown are nominal, subject to standard industry tolerances. Actual shipping weight may vary.
These ampacities are based on a conductor temperature of 90°C and an ambient air temperature of 40°C, per ICEA S-75-381, NEMA WC58. For ampacities per National Electrical Code® requirements, refer to the latest NEC edition.

General Cable

MSHA Mine Safety and Health Administration

ANACONDA® BRAND

Carol® Brand Industrial-Grade Cables 2



Carol® Brand industrial-grade portable cables provide cost-effective yet dependable performance over the life of the cable for all power and control cable applications where the cables will not encounter a high degree of flexing and physical abuse.

For these low-flex, stationary and/or non-critical uses, Carol® Brand mining cables offer a viable, rugged, reliable option, along with significant cost savings. A heavy-duty-grade, single-layer, CV-cured thermoset jacket ensures performance exceeding requirements for standard applications including pumps, belt drives, battery packs and other general-purpose uses.

Our industrial-grade cables carry a full range of listings and certifications with Underwriters Laboratories, Inc. and the Canadian Standard Association. In addition, many products meet or exceed the requirements of MSHA and other relevant industry standards.

The advantage of General Cable's experience and expertise in mining cable technology continues to provide practical benefits over the entire life cycle of a particular cable in a specific application. Better design and construction, more advanced materials and process technology, and more reliable performance over a longer time result in lower cost per ton. Carol® Brand cables are engineered to complement the Anaconda® Brand product line.

Whatever the specific requirement, General Cable can provide the best performance, best fit, best cost solution for any application.

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Super Vu-Tron® Single Conductor

90°C (UL), Type W, 2000 Volt and Type RHH/RHW 600 Volt Portable Power Cable

Product Construction:

Conductor:
- 8 AWG through 500 kcmil fully annealed stranded bare copper

Insulation:
- Premium-grade 90°C EPDM

Jacket:
- Super Vu-Tron® 90°C, black
- Temperature range: -40°C to +90°C
- Voltage rating:
  600 volts Type RHH/RHW
  2000 volts Type W
- An open polyester braid reinforcement is applied between the insulation and jacket for mechanical strength

Jacket Marking:
- 8-1 AWG: CAROL SUPER VU-TRON® TYPE W PORTABLE POWER CABLE (UL) DRY 90°C WET 75°C 2000 V SUNLIGHT RESISTANT P-7K-123049-MSHA (SIZE) TYPE RHH OR RHW (UL) 600 V MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)
- 1/0-500 kcmil: CAROL SUPER VU-TRON® TYPE W PORTABLE POWER CABLE (UL) DRY 90°C WET 75°C 2000 V SUNLIGHT RESISTANT P-7K-123049-MSHA (SIZE) TYPE RHH OR RHW (UL) 600 V FOR CT USE --- CSA TYPE W (-40°C) 2 KV FT5 MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)

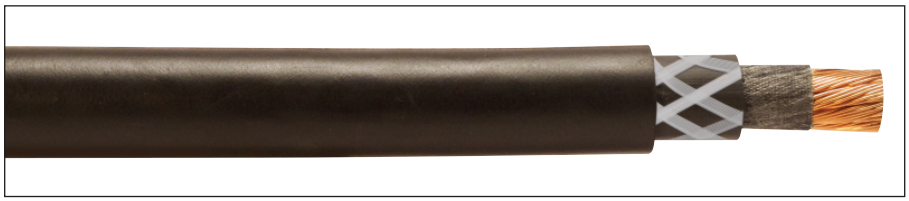
Applications:
- Portable power systems
- Entertainment industry activities such as theatre, television, night clubs, motion pictures, mobile communication vans, spotlights and sound systems
- Other similar applications that would require permanent or temporary power
- Permanent wiring of 600 volt power supplies, hoists, cranes and other applications where flexible power leads must be installed in conduit or raceways

Features:
- Water-resistant*
- Sunlight-resistant
- Designed to withstand severe environmental conditions
- Withstands exposure to oil, acids, alkalies, heat, flame, moisture and chemicals
- Meets or exceeds flame test requirements of MSHA and UL
- TRU-Mark® sequential footage marking

Industry Approvals:
- ICEA S-75-381 NEMA WC58
- UL Type W
- UL Type RHH or RHW
- MSHA Approved
- RoHS Compliant

Packaging:
- Lengths cut to order

* Suitable for immersion in water if properly sealed and terminated.



TYPE W 2000 VOLT (UL) AND TYPE RHH/RHW 600 VOLT (UL)

CATALOG NUMBER	NO. OF COND.	AWG OR kcmil	COND. STRAND	NOMINAL COND. O.D.		NOMINAL INS. THICKNESS		NOMINAL O.D.		CURRENT AMPS		APPROX. NET WT. LBS/ M'(S)
				INCHES	mm	INCHES	mm	INCHES	mm	(1)	(2)	
83008*	1	8	133	0.167	4.24	0.070	1.78	0.485	12.32	55	80	150
83006	1	6	259	0.210	5.33	0.070	1.78	0.565	14.35	75	105	214
83004	1	4	259	0.245	6.22	0.070	1.78	0.605	15.37	95	140	277
83002	1	2	259	0.334	8.48	0.070	1.78	0.680	17.27	130	190	387
83001	1	1	259	0.375	9.53	0.090	2.29	0.765	19.43	150	220	485
83010	1	1/0†	259	0.385	9.78	0.090	2.29	0.810	20.57	170	260	563
83020	1	2/0†	259	0.475	12.07	0.090	2.29	0.885	22.48	195	300	679
83030	1	3/0†	259	0.480	12.19	0.090	2.29	0.930	23.62	225	350	809
83040	1	4/0†	259	0.570	14.48	0.090	2.29	0.980	24.89	260	405	973
83250	1	250†	627	0.615	15.62	0.105	2.67	1.045	26.54	290	455	1155
83350	1	350†	855	0.725	18.42	0.105	2.67	1.145	29.08	350	570	1492
83500	1	500†	1235	0.880	22.35	0.105	2.67	1.310	33.27	430	700	2048

* Non-stock item; minimum quantity purchase required.

(1) Ampacities based on 90°C conductor and 30°C ambient temperature based on Table 310-16 in the National Electrical Code® for RHH/RHW with not more than three current-carrying conductors in raceway, cable or earth.

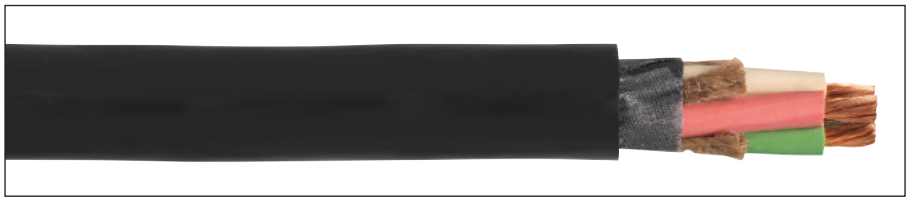
(2) Ampacities based on 90°C conductor and 30°C ambient temperature based on Table 310-17 and Table 400.5(A)(2) in the National Electrical Code® for single-conductor cables.

(S) Actual shipping weight may vary.

† Designated for CT use.

Super Vu-Tron® Multi-Conductor Type W Round

90°C (UL), Type W, 2000 Volt Portable Power Cable



CATALOG NUMBER	NO. OF COND.	AWG OR kcmil	COND. STRAND	NOMINAL COND. O.D.		NOMINAL INS. THICKNESS		NOMINAL O.D.		CURRENT AMPS(1)	APPROX. NET WT. LBS/M'(S)
				INCHES	mm	INCHES	mm	INCHES	mm		
2 CONDUCTOR – TYPE W – 2000 VOLT											
81312	2	8	133	0.160	4.06	0.060	1.52	0.770	19.56	74	325
81622	2	6	259	0.198	5.03	0.060	1.52	0.910	23.11	99	470
81642	2	4	259	0.245	6.22	0.060	1.52	1.020	25.91	130	620
81662	2	2	259	0.297	7.54	0.080	2.03	1.210	30.73	174	935
81372*	2	1	259	0.353	8.97	0.080	2.03	1.370	34.80	202	1305
81382*	2	1/0	259	0.385	9.78	0.080	2.03	1.435	36.45	234	1555
81392*	2	2/0	259	0.442	11.23	0.080	2.03	1.555	39.50	271	1860
81402*	2	3/0	259	0.480	12.19	0.080	2.03	1.670	42.42	313	2230
81412*	2	4/0	259	0.555	14.10	0.080	2.03	1.815	46.10	361	2655
3 CONDUCTOR – TYPE W – 2000 VOLT											
81313	3	8	133	0.160	4.06	0.060	1.52	0.925	23.50	74	470
81623	3	6	259	0.198	5.03	0.060	1.52	0.995	25.27	99	625
81643	3	4	259	0.245	6.22	0.060	1.52	1.095	27.81	130	810
81663	3	2	259	0.297	7.54	0.080	2.03	1.285	32.64	174	1190
81373*	3	1	259	0.353	8.97	0.080	2.03	1.445	36.70	202	1655
81383	3	1/0	259	0.385	9.78	0.080	2.03	1.555	39.50	234	1965
81393	3	2/0	259	0.442	11.23	0.080	2.03	1.670	42.42	271	2350
81403*	3	3/0	259	0.480	12.19	0.080	2.03	1.815	46.10	313	2890
81413*	3	4/0	259	0.555	14.10	0.080	2.03	1.930	49.02	361	3285
81423*	3	250	627	0.615	15.62	0.095	2.41	2.390	60.71	402	5070
81443*	3	350	855	0.725	18.42	0.095	2.41	2.680	68.07	495	6570
81473*	3	500	1235	0.880	22.35	0.095	2.41	3.030	76.96	613	8700
4 CONDUCTOR – TYPE W – 2000 VOLT											
81314	4	8	133	0.160	4.06	0.060	1.52	0.980	24.89	65	615
81624	4	6	259	0.198	5.03	0.060	1.52	1.070	27.18	87	800
81644	4	4	259	0.245	6.22	0.060	1.52	1.210	30.73	114	1040
81664	4	2	259	0.297	7.54	0.080	2.03	1.435	36.45	152	1580
81374	4	1	259	0.353	8.97	0.080	2.03	1.595	40.51	177	2045
81384	4	1/0	259	0.385	9.78	0.080	2.03	1.705	43.31	205	2430
81394	4	2/0	259	0.442	11.23	0.080	2.03	1.845	46.86	237	2950
81404	4	3/0	259	0.480	12.19	0.080	2.03	1.965	49.91	274	3430
81414	4	4/0	259	0.555	14.10	0.080	2.03	2.145	54.48	316	3885
5 CONDUCTOR – TYPE W – 2000 VOLT											
81315	5	8	133	0.160	4.06	0.060	1.52	1.030	26.16	52	650
81625	5	6	259	0.198	5.03	0.060	1.52	1.170	29.72	69	915
81645	5	4	259	0.245	6.22	0.060	1.52	1.360	34.54	91	1320
81665	5	2	259	0.297	7.54	0.080	2.03	1.595	40.51	121	1925
81375*	5	1	259	0.353	8.97	0.080	2.03	1.820	46.23	141	2675
81385	5	1/0	259	0.385	9.78	0.080	2.03	1.900	48.26	164	2885
81395*	5	2/0	259	0.442	11.23	0.080	2.03	2.060	52.32	189	3630
81405*	5	3/0	259	0.480	12.19	0.080	2.03	2.260	57.40	219	4900
81415*	5	4/0	259	0.555	14.10	0.080	2.03	2.460	62.48	252	5980

(1) Ampacities based on 90°C conductor and 30°C ambient temperature per Table 400.5(A)(2) of the National Electrical Code®.

* Non-stock item; minimum quantity purchase required.

** Green conductor for grounding only.

(S) Actual shipping weight may vary.

Product Construction:

Conductor:

- 8 AWG through 500 kcmil fully annealed stranded bare copper

Insulation:

- Premium-grade, color-coded 90°C EPDM
- Color code: See chart below

Jacket:

- Super Vu-Tron® 90°C, black
- Temperature range: -40°C to +90°C

Jacket Marking:

- SIZES SMALLER THAN 2-1/4" – CAROL SUPER VU-TRON® (SIZE) TYPE W PORTABLE POWER CABLE (UL) 2000 V DRY 90°C WET 75°C SUN RES P-7K-123049-MSHA---CSA TYPE W (-40°C) 2 KV FT5 MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)
- SIZES 2-1/4" AND LARGER – (SIZE) TYPE W CAROL SUPER VU-TRON® 90°C DRY AND WATER RESISTANT 75°C 2000 V SUN RES (UL) P-7K-123049 MSHA LR27161 MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)

Applications:

- Industrial and light- to medium-duty mining applications
- Heavy-duty service as power supply cable
- AC systems (grounded and ungrounded)
- Mobile and portable electrical equipment
- Motor and battery leads
- 2-conductor cables—use on DC or AC single-phase systems where grounding is not required
- 3-conductor cables—use on AC systems where no grounding is required or on DC systems with one conductor for grounding
- 4-conductor cables—use on two- or three-phase AC systems with one conductor used for grounding
- 5-conductor cables—use in applications where separating the system neutral from the frame ground is required

Features:

- Withstands severe environmental conditions
- Suitable for immersion in water*
- Indent-printed for easy identification
- Withstands exposure to oil, acids, alkalies, heat, moisture and most chemicals
- Rope lay stranding for maximum flex life
- Excellent impact resistance
- Cable core bound for superior flexibility and toughness
- Sunlight-resistant
- TRU-Mark® sequential footage marking

Industry Approvals:

- CSA
- MSHA Approved
- UL Type W
- RoHS Compliant

Packaging:

- Lengths cut to order

* Suitable for immersion in water if properly sealed and terminated.

COLOR CODE CHART

NO. OF CONDUCTORS	COLOR**
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green
5	Black, White, Red, Green, Orange

Super Vu-Tron® Type G and Type G-GC Round

90°C (UL), 2000 Volt Portable Power Cable

NOW WITH TRU-Mark® Footage Marking System PRECISION

Product Construction:

Conductor:
- 8 AWG through 500 kcmil fully annealed stranded bare copper

Insulation:
- Premium-grade, color-coded 90°C EPDM
- Color code: See chart below
- Insulated grounds and ground checks

Jacket:
- Super Vu-Tron® 90°C, black
- Temperature range: -40°C to +90°C

Jacket Marking:
- TYPE G-GC (4/0 AND SMALLER) – CAROL SUPER VU-TRON® SIZE (mm²) TYPE G-GC PORTABLE POWER CABLE (UL) 2000 V DRY 90°C WET 75°C SUN RES P-7K-123049-MSHA --- CSA TYPE G-GC (-40°C) 2 KV FT5 MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)
- TYPE G-GC (LARGER THAN 4/0) - (SIZE) TYPE G-GC CAROL SUPER VU-TRON® 90°C DRY AND WATER RESISTANT 75°C 2000 V SUN RES (UL) P-7K-123049 MSHA LR27161 MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)
- TYPE G - CAROL SUPER VU-TRON® SIZE (mm²) TYPE G PORTABLE POWER CABLE (UL) 600/2000 V DRY 90°C WET 75°C SUN RES P-7K-123049 MHSA --- CSA TYPE G (-40°C) 2 KV FT5 MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)

Applications:
- Industrial and light- to medium-duty mining applications
- Heavy-duty service as power supply cable
- Mobile and portable electrical equipment
- 3- and 4-conductor—use on three-phase AC systems where grounding is required

Features:
- Excellent impact and abrasion resistance
- Withstands exposure to oil, acids, alkalies, heat, moisture and most chemicals
- Suitable for immersion in water*
- Indent-printed for easy identification
- Rope lay stranding for maximum flex life
- Cable core bound for superior flexibility and toughness
- Non-wicking rubber fillers (G-GC)
- Canadian color code available upon request
- Sunlight-resistant
- TRU-Mark® sequential footage marking

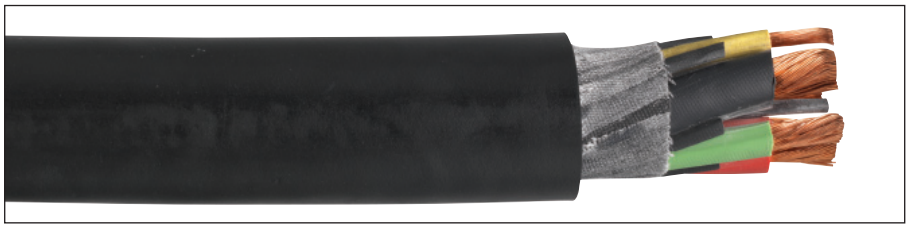
Industry Approvals:
- UL Type G, G-GC
- CSA
- MSHA Approved
- RoHS Compliant

Packaging:
- Lengths cut to order

*Suitable for immersion in water if properly sealed and terminated.

COLOR CODE CHART

NO. OF CONDUCTORS	COLOR
3	Black, White, Red
4	Black, White, Red, Orange



3 CONDUCTOR – TYPE G-GC – 2000 VOLT

CATALOG NUMBER	NO. OF COND.	AWG OR kcmil	COND. STRAND	NOMINAL COND. O.D.		YELLOW GROUND CHECK AWG SIZE	GREEN GROUND COND. AWG SIZE	NOMINAL INS. THICKNESS		NOMINAL O.D.		CURR. AMPS[1]	APPROX. NET WT. LBS/M'[S]
				INCHES	mm			INCHES	mm	INCHES	mm		
82313	3	8	133	0.160	4.06	10	2#10	0.060	1.52	0.965	24.51	65	600
82623	3	6	259	0.198	5.03	10	2#10	0.060	1.52	1.020	25.91	87	770
82643	3	4	259	0.245	6.22	10	2#8	0.060	1.52	1.125	28.58	114	1005
82663	3	2	259	0.297	7.54	10	2#7	0.080	2.03	1.315	33.40	152	1480
82373	3	1	259	0.353	8.97	8	2#6	0.080	2.03	1.445	36.70	177	1815
82383	3	1/0	259	0.385	9.78	8	2#5	0.080	2.03	1.570	39.88	205	2205
82393	3	2/0	259	0.442	11.23	8	2#4	0.080	2.03	1.660	42.16	237	2545
82403	3	3/0	259	0.480	12.19	8	2#3	0.080	2.03	1.810	45.97	274	3230
82413	3	4/0	259	0.555	14.10	8	2#2	0.080	2.03	1.920	48.77	316	3675
82423[2]*	3	250	627	0.615	15.62	8	2#2	0.095	2.41	2.390	60.71	352	6060
82443[2]*	3	350	855	0.725	18.42	8	2#1/0	0.095	2.41	2.680	68.07	433	7400
82473[2]*	3	500	1235	0.880	22.35	8	2#2/0	0.095	2.41	3.030	76.96	536	10100

4 CONDUCTOR – TYPE G – 600/2000 VOLT

CATALOG NUMBER	NO. OF COND.	AWG OR kcmil	COND. STRAND	NOMINAL COND. O.D.		GREEN COND. AWG SIZE	NOMINAL INS. THICKNESS		NOMINAL O.D.		CURRENT AMPS[1]	APPROX. NET WT. LBS/M'[S]
				INCHES	mm		INCHES	mm	INCHES	mm		
82314	4	8	133	0.160	4.06	4#12	0.060	1.52	1.045	26.54	52	690
82624	4	6	259	0.198	5.03	4#12	0.060	1.52	1.125	28.58	70	880
82644	4	4	259	0.245	6.22	4#10	0.060	1.52	1.225	31.12	91	1160
82664	4	2	259	0.297	7.54	4#9	0.080	2.03	1.435	36.45	122	1720
82374*	4	1	259	0.353	8.97	4#8	0.080	2.03	1.595	40.51	142	2200
82384	4	1/0	259	0.385	9.78	4#7	0.080	2.03	1.730	43.94	164	2705
82394	4	2/0	259	0.442	11.23	4#6	0.080	2.03	1.855	47.12	190	3190
82404	4	3/0	259	0.480	12.19	4#5	0.080	2.03	2.040	51.82	219	4005
82414	4	4/0	259	0.555	14.10	4#4	0.080	2.03	2.145	54.48	253	4560

[1] Ampacities based on 90°C conductor and 30°C ambient temperature per Table 400.5(A)(2) of the National Electrical Code®.
[2] UL Listed and c(UL) Certified.
* Non-stock item; minimum quantity purchase required.
[S] Actual shipping weight may vary.

General Cable

RoHS Compliant Directive 2002/95/EC

MSHA Mine Safety and Health Administration

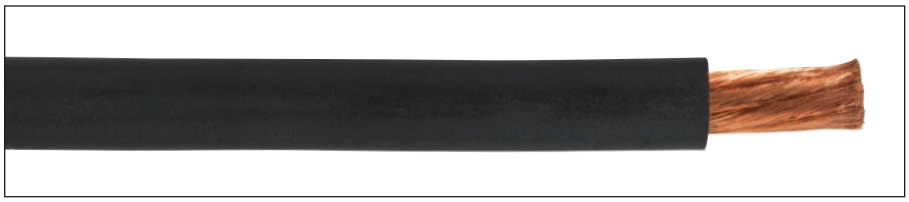
Certified Canadian Standard Association

UL LISTED

CAROL BRAND

Carolprene® 105°C Welding Cable

105°C, 600 Volt, MSHA Approved



CAROLPRENE® 105°C WELDING CABLE – 600 VOLT – 30 AWG STRANDING

CATALOG NUMBER	AWG SIZE	NOMINAL STRAND	NOMINAL O.D.		APPROX. NET WT. LBS/M'(S)	STD. CTN.
			INCHES	mm		
01758*	6	259/30	0.430	10.92	152	1000'
01757*	4	416/30	0.475	12.07	215	1000'
01756*	2	655/30	0.540	13.72	296	1000'
01755*	1	827/30	0.580	14.73	360	1000'
01754*	1/0	1042/30	0.615	15.62	424	1000'
01753*	2/0	1316/30	0.655	16.64	513	1000'
01752*	3/0	1660/30	0.720	18.29	644	1000'
01751*	4/0	2062/30	0.780	19.81	824	1000'

* Non-stock item; minimum quantity required.
(S) Actual shipping weight may vary.

Product Construction:

Conductors:
- 6 AWG through 4/0 AWG fully annealed stranded bare copper

Jacket:
- Carolprene® 105°C, black
- Temperature range: -50°C to +105°C

Jacket Marking:
- CAROLPRENE (SIZE) AWG 105°C WELDING CABLE 600 VOLT P-07-KA100015-MSHA MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)

Applications:
- Secondary voltage resistance welding leads in heavy duty or mining applications
- Power supply applications not exceeding 600 volts AC
- Sizes 1/0 and larger for permanent wiring in conduit or tray of 600 V power supplies, hoists, cranes or other applications where flexible power leads must be installed in conduit, raceways or trays

Features:
- Water-resistant
- Sunlight-resistant
- Designed to withstand severe environmental conditions
- Withstands exposure to oil, acids, alkalies, heat, flame, moisture and chemicals
- Meets or exceeds flame test requirements of MSHA
- TRU-Mark® marking system and indent printed MSHA number

Industry Approvals:
- MSHA Approved
- RoHS Compliant

Packaging:
- 250' (76.2 m), 1000' (304.8 m) reels
- Other put-ups available on special order

WELDING CABLE AMPACITIES SINGLE CONDUCTOR

Required Cable Sizes: For Welding Cable Application

	length in feet for total circuit for secondary voltages only – do not use this table for 600 Volt in-line applications						
AMPS	100'	150'	200'	250'	300'	350'	400'
100	4	4	2	2	1	1/0	1/0
150	4	2	1	1/0	2/0	3/0	3/0
200	2	1	1/0	2/0	3/0	4/0	4/0
250	1	1/0	2/0	3/0	4/0		
300	1/0	2/0	3/0	4/0			
350	1/0	3/0	4/0				
400	2/0	3/0					
450	2/0	4/0					
500	3/0	4/0					
550	3/0	4/0					
600	4/0		REQUIRED CABLE SIZES SHOWN IN AWG NUMBERS				

The total circuit length includes both welding and ground leads (based on 4-volt drop) 60% duty cycle.

These values for current-carrying capacity are based on a copper temperature of 60°C (140°F), an ambient temperature of 40°C (104°F) and yield load factors from approximately 32% for the No. 2 AWG cable to approximately 23% for the No. 3/0 AWG cable, and higher for the smaller sizes. The sizes of cables generally used range from No. 2 AWG to No. 3/0 AWG. In actual service, the load factor may be much higher than indicated without overheating the cable, as the ambient temperature will generally be substantially lower than 40°C.

Suggested Ampacities For 600 Volt In-Line Applications

AWG	AMPERES	AWG	AMPERES
4/0	405	1	220
3/0	350	2	190
2/0	300	4	140
1/0	260	6	105

Ampacities for portable cable in accordance with NEC Table 400.5(A)(2).
May not be suitable for all installations per National Electrical Code®.

CAROL BRAND

MSHA Mine Safety and Health Administration

RoHS Compliant Directive 2002/95/EC

General Cable

Carolprene® 90°C Welding Cable

600 Volt

RED NOW A STOCK ITEM

NOW WITH TRU-Mark® Footage Marking System PRECISION

Product Construction:

Conductor:
- 6 AWG through 500 kcmil fully annealed stranded bare copper Class K

Jacket:
- Premium-grade 90°C EPDM, black or red
- Temperature range: -40°C to +90°C

Jacket Marking:
- CAROLPRENE (SIZE) WELDING CABLE 600 VOLT MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)

Applications:
- Secondary voltage resistance welding leads
- Power supply applications not exceeding 600 volts AC

Features:
- Good flexibility
- Abrasion-resistant
- Good color retention
- TRU-Mark® sequential footage marking

Packaging:
- 250' (76.2 m), 500' (152.4 m), and 1000' (304.8 m) reels
- MCM sizes cut to length
- Other put-ups available on special order

Industry Approvals:
- RoHS Compliant

Suggested Ampacities For 600 Volt In-Line Applications

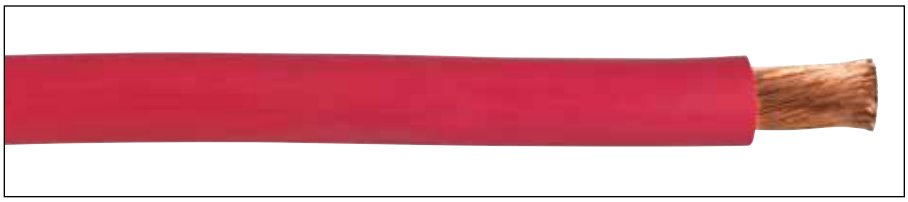
AWG OR kcmil	AMPERES	AWG	AMPERES
500 kcmil	695	1/0	190
350 kcmil	552	1	160
250 kcmil	445	2	140
4/0	310	4	100
3/0	265	6	75
2/0	223		

Ampacities for portable cable, continuous-duty (ambient temperature of 40°C).
May not be suitable for all installations per National Electrical Code®.

Ordering Part Number Example

01771.38.03

4/0 500' put-up in red
.03 for red jacket



CAROLPRENE® WELDING CABLE – 600 VOLT – CLASS K – 30 AWG STRANDING

CATALOG NUMBER	AWG OR kcmil	CONDUCTOR STRAND	NOMINAL O.D.		APPROX. NET WT. LBS/M*(S)	STD. CTN.
			INCHES	mm		
01778	6	259/30	0.320	8.13	135	250'
01777	4	406/30	0.375	9.53	172	250'
01776	2	646/30	0.465	11.81	260	250'
01775	1	812/30	0.495	12.57	317	250'
01774	1/0	1025/30	0.560	14.22	400	250'
01773	2/0	1274/30	0.615	15.62	487	250'
01772	3/0	1613/30	0.670	17.02	605	250'
01771	4/0	2029/30	0.750	19.05	827	250'
99142*	250 kcmil	2496/30	0.830	21.08	976	250'
99432*	350 kcmil	3441/30	0.950	24.13	1338	250'
99202*	500 kcmil	5054/30	1.200	30.48	1995	250'

(S) Actual shipping weight may vary.
* Non-stock item; minimum quantity required.

WELDING CABLE AMPACITIES SINGLE CONDUCTOR

Required Cable Sizes: For Welding Cable Application

	length in feet for total circuit for secondary voltages only – do not use this table for 600 Volt in-line applications						
AMPS	100'	150'	200'	250'	300'	350'	400'
100	4	4	2	2	1	1/0	1/0
150	4	2	1	1/0	2/0	3/0	3/0
200	2	1	1/0	2/0	3/0	4/0	4/0
250	1	1/0	2/0	3/0	4/0		
300	1/0	2/0	3/0	4/0			
350	1/0	3/0	4/0				
400	2/0	3/0					
450	2/0	4/0					
500	3/0	4/0					
550	3/0	4/0					
600	4/0	REQUIRED CABLE SIZES SHOWN IN AWG NUMBERS					

The total circuit length includes both welding and ground leads (based on 4-volt drop) 60% duty cycle.

These values for current-carrying capacity are based on a copper temperature of 60°C (140°F), an ambient temperature of 40°C (104°F) and yield load factors from approximately 32% for the No. 2 AWG cable to approximately 23% for the No. 3/0 AWG cable, and higher for the smaller sizes. The sizes of cables generally used range from No. 2 AWG to No. 3/0 AWG. In actual service, the load factor may be much higher than indicated without overheating the cable, as the ambient temperature will generally be substantially lower than 40°C.

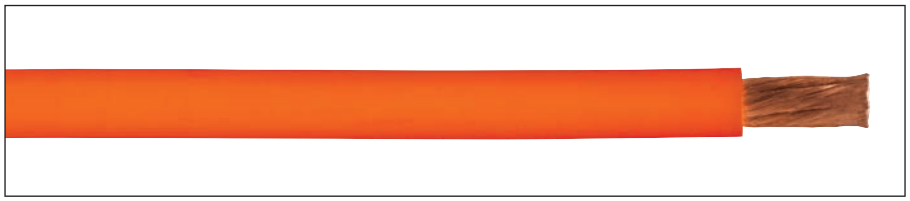
General Cable

RoHS Compliant Directive 2002/95/EC

CAROL® BRAND

Super Vu-Tron® Welding Cable

90°C, 600 Volt, UL/CSA, RHH/RHW



SUPER VU-TRON® WELDING CABLE—UL/CSA—CLASS M—34 AWG STRANDING

CATALOG NUMBER	AWG SIZE	CONDUCTOR STRAND	NOMINAL O.D.		APPROX. NET WT. LBS/M'(S)	STD. CTN.
			INCHES	mm		
01768*	6	660/34	0.370	9.40	125	250'
01767*	4	1045/34	0.415	10.54	191	250'
01766	2	1634/34	0.475	12.07	259	250'
01765	1	2090/34	0.530	13.46	331	250'
01764†	1/0	2597/34	0.575	14.61	401	250'
01763†	2/0	3300/34	0.630	16.00	511	250'
01762†	3/0	4214/34	0.700	17.78	615	250'
01761†	4/0	5225/34	0.800	20.32	844	250'

*Not MSHA approved.

(S) Actual shipping weight may vary.

† Type RHH/RHW - 600 V for CT use.

Product Construction:

Conductor:

- 6 AWG through 4/0 AWG fully annealed stranded bare copper per ASTM B172 Class M

Jacket:

- Super Vu-Tron®, orange
- Temperature range: -50°C to +90°C

Jacket Marking:

- #6 - #1 AWG: CAROL SUPER VU-TRON® WELDING CABLE–EXTRA FLEXIBLE (UL) 600 VOLT (-50°C to +90°C) OIL RESISTANT P-123-141 MSHA (SIZE) --- CSA 90°C ARC WELDING CABLE FT1 MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)
- 1/0 - 4/0 AWG: CAROL SUPER VU-TRON® WELDING CABLE (SIZE) EXTRA FLEXIBLE (UL) 600 VOLT (-50°C to +90°C) OIL RESISTANT P-123-141 MSHA --- CSA 90°C ARC WELDING CABLE FT1 --- TYPE RHH OR RHW (UL) 600 V FOR CT USE MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)

Applications:

- Secondary voltage resistance welding leads
- Power supply applications not exceeding 600 volts AC
- Sizes 1/0 and larger for permanent wiring in conduit or tray of 600 V power supplies, hoists, cranes or other applications where flexible power leads must be installed in conduit, raceways or trays

Features:

- UL Listed
- CSA Certified
- Excellent flexibility to last longer in flex applications
- Abrasion-resistant
- Resists oils and solvents
- Rated -50°C for use in cold environments
- Weather-resistant
- Ozone-resistant
- Safety-colored for high visibility
- Assured longer service life, saving money in replacement costs, maintenance cost and downtime
- MSHA Approved for flame resistance
- Sunlight-resistant
- TRU-Mark® sequential footage marking

Industry Approvals:

- UL Listed
- CSA Certified
- MSHA Approved
- Meets UL Vertical Flame Test per UL 854
- RoHS Compliant

Packaging:

- 250' (76.2 m), 500' (152.4 m), and 1000' (304.8 m) reels
- Other put-ups available on special order

WELDING CABLE AMPACITIES SINGLE CONDUCTOR

Required Cable Sizes: For Welding Cable Application

	length in feet for total circuit for secondary voltages only – do not use this table for 600 Volt in-line applications						
AMPS	100'	150'	200'	250'	300'	350'	400'
100	4	4	2	2	1	1/0	1/0
150	4	2	1	1/0	2/0	3/0	3/0
200	2	1	1/0	2/0	3/0	4/0	4/0
250	1	1/0	2/0	3/0	4/0		
300	1/0	2/0	3/0	4/0			
350	1/0	3/0	4/0				
400	2/0	3/0					
450	2/0	4/0					
500	3/0	4/0					
550	3/0	4/0					
600	4/0						

REQUIRED CABLE SIZES SHOWN IN AWG NUMBERS

The total circuit length includes both welding and ground leads (based on 4-volt drop) 60% duty cycle.

These values for current-carrying capacity are based on a copper temperature of 60°C (140°F), an ambient temperature of 40°C (104°F) and yield load factors of from approximately 32% for the No. 2 AWG cable to approximately 23% for the No. 3/0 AWG cable, and higher for the smaller sizes. The sizes of cables generally used range from No. 2 AWG to No. 3/0 AWG. In actual service, the load factor may be much higher than indicated without overheating the cable as the ambient temperature will generally be substantially lower than 40°C.

Suggested Ampacities For 600 Volt In-Line Applications

AWG	AMPERES	AWG	AMPERES
4/0	405	1	220
3/0	350	2	190
2/0	300	4	140
1/0	260	6	105

Appendix J Ampacities for portable cable in accordance with NEC Table 400.5(A)(2).
May not be suitable for all installations per National Electrical Code®.

CAROL BRAND

UL LISTED

CSA Certified Canadian Standard Association

MSHA Mine Safety and Health Administration

RoHS Compliant Directive 2002/95/EC

General Cable

Super Vu-Tron® Single Conductor Type W Extra Flex

90°C, 2000 Volt, UL Listed

Product Construction:

Conductor:
- 8 AWG through 250 kcmil fully annealed stranded bare copper per ASTM B172

Insulation:
- Premium-grade 90°C EPDM

Jacket:
- Super Vu-Tron® 90°C, black (standard)
  Other Available Colors:
  – Gray, red, orange, yellow, green, blue
  – See color code chart
- Temperature range: -40°C to +90°C
- An open polyester braid reinforcement is applied between the insulation and jacket for mechanical strength

Jacket Marking:
- CAROL SUPER VU-TRON® TYPE W PORTABLE POWER CABLE (SIZE) 2000 V 90°C DRY AND WATER RESISTANT 75°C SUN RES (UL) P-7K-123049-MSHA---CSA TYPE W (-40°C) FT5 (TRU-MARK SEQUENTIAL FOOTAGE)
- Custom print available by special order with minimum quantity purchase

Applications:
- Portable power systems
- Entertainment industry activities such as theater, television, nightclubs, motion pictures, mobile communication vans, spotlights and sound systems
- Other similar applications that would require temporary power

Features:
- Water-resistant
- Sunlight-resistant
- Designed to withstand severe environmental conditions
- Flexible and easier to work with in cold temperatures
- Withstands exposure to oil, acids, alkalies, heat, flame, moisture and chemicals
- No "memory" effect when coiling and uncoiling for use
- Meets or exceeds flame test requirements of MSHA and UL
- TRU-Mark® sequential footage marking

Industry Approvals:
- UL Listed
- MSHA Approved
- RoHS Compliant
- CSA Certified

Packaging:
- Lengths cut to order (99 put-up code)
- 1000' reel (41 put-up code)



TYPE W - 2000 VOLT - UL

CATALOG NUMBER	AWG OR kcmil	NOMINAL STRAND	NOMINAL COND. O.D.		NOMINAL INS. THICKNESS		NOMINAL O.D.		APPROX. NET WT. LBS/M[1](S)	CURRENT AMPS[1]
			INCHES	mm	INCHES	mm	INCHES	mm		
80611*	8	168/30	0.165	4.19	0.060	1.52	0.440	11.18	149	80
80621*	6	259/30	0.198	5.03	0.060	1.52	0.530	13.46	205	105
80631*	4	416/30	0.233	5.92	0.060	1.52	0.585	14.86	264	140
80641	2	655/30	0.293	7.44	0.070	1.78	0.650	16.51	370	190
80651*	1	827/30	0.330	8.38	0.090	2.29	0.730	18.54	479	220
80661*	1/0	1042/30	0.369	9.37	0.090	2.29	0.750	19.05	535	260
80671*	2/0	1316/30	0.412	10.46	0.090	2.29	0.825	20.96	653	300
80681*	3/0	1660/30	0.490	12.45	0.090	2.29	0.855	21.72	755	350
80691	4/0	2062/30	0.530	13.46	0.090	2.29	0.980	24.89	1056	405
80701*	250 kcmil	2496/30	0.606	15.39	0.105	2.67	1.000	25.40	1150	455

[1] Ampacities based on 90°C conductor and 30°C ambient temperature, based on Table 310-17 and Table 400.5(A)(2) in the National Electrical Code for single conductor cables.
* Non-stock item; minimum quantity purchase required.
(S) Actual shipping weight may vary.



COLOR CODE CHART

COLOR	COLOR CODE
Black	01
Gray	10
Red	03
Orange	04
Yellow	05
Green	06
Blue	17

ORDERING INFORMATION

Three easy steps to ordering your Super Vu-Tron Type W Extra Flex Cable:

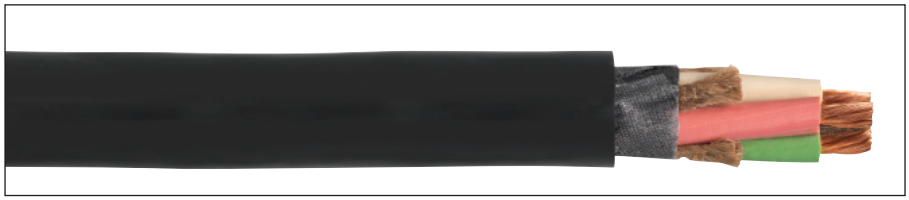
Catalog Number	Put-Up Code	Color Code
Choose Catalog Number from Catalog Table above	Choose Put-Up Code from Packaging Information (99 for cut-to-order – please specify length needed) (41 for 1000 ft reel put-up size)	Choose Color Code from the Color Code Chart

Examples:

80691.41.01	Type W Extra Flex, 4/0 size, 1,000 ft. reel put-up, black
80691.99.17	Type W Extra Flex, 4/0 size, long-length reel put-up, blue

Make It Yours: Custom print legends available for recurring stock and special orders - ask for details

Carol® Brand Rubber Cord Products 3



Thermoset rubber cord products have evolved during the last 50 years from simple and unsophisticated to a product line where specialized, technologically advanced products are in demand for exacting commercial and industrial applications.

No longer are rubber cord products used only in applications where flexibility is needed; today, typical applications require cord to perform well in environments of extreme heat and cold, and on job sites and factory floors where resistance to oil, chemicals and abrasion is mandatory.

General Cable's role as the producer of premier Carol® Brand rubber cord products is to ensure that new product development, product innovation and quality not only keep pace with industry requirements, but also set the trends.

Our rubber cord products carry a full range of listings and certifications with Underwriters Laboratories, Inc. and the Canadian Standard Association. In addition, many products meet or exceed the requirements of OSHA, MSHA and other relevant industry standards.

The Carol® Brand is simply the most accepted in the industry, having proven itself on the job time after time. Our rubber cord line is the most comprehensive in the industry, ensuring that the proper Carol® Brand product can always be specified.

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Super Vu-Tron® Supreme Types SJOOW/SOOW	41
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Carol® Double Jacket Drill Cord

90˚C, 600 Volt, MSHA Approved Remote Control & Drill Cord

NOW WITH TRU-Mark® Footage Marking System PRECISION

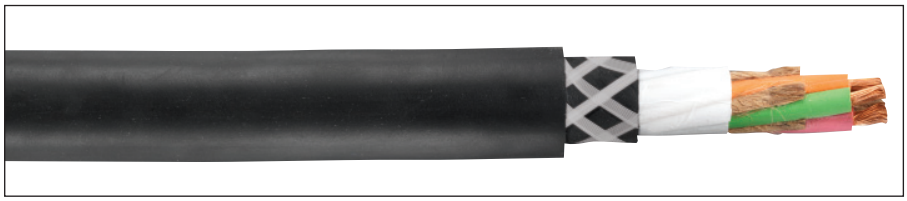
Product Construction:

Conductors:
- 14 through 10 AWG fully annealed stranded bare copper
- ASTM B3/B174

Insulation
- Premium-grade, color-coded 90˚C EPDM
- Color code: See chart below

Jacket
- 90˚C, black, CPE or neoprene
- Temperature range: -40°C to +90°C
- An open polyester braid reinforcement is applied between layers for mechanical strength

Jacket Marking
- CPE jacket -
  CAROL (SIZE & NO. OF CONDS.) DOUBLE JACKET REMOTE CONTROL AND DRILL CORD 600 V 90°C P-07-KA110003-MSHA MADE IN USA
- Neoprene jacket -
  CAROL (SIZE & NO. OF CONDS.) NEOPRENE DOUBLE JACKET REMOTE CONTROL AND DRILL CORD 600 V 90°C P-07-KA110006-MSHA MADE IN USA



Applications:
- Industrial and light- to medium-duty mining applications
- Heavy-duty service as power supply cable
- AC systems (grounded and ungrounded)
- Heavy-duty and long service life applications
- Mobile and portable electrical equipment
- Motor and battery leads
- Wet or dry locations in underground mines in accordance with Schedule 26 of the U.S. Bureau of Mines
- 3-conductor cables – use on AC systems where no grounding is required or on DC systems with one conductor for grounding
- 4-conductor cables – use on two- or three-phase AC systems with one conductor used for grounding
- 5-conductor cables – use in applications where separating the system neutral from the frame ground is required

Features:
- Withstands severe environmental conditions
- Indent-printed for easy identification
- Withstands exposure to oil, acids, alkalies, heat, moisture and most chemicals
- Flexible stranding
- Excellent impact, crush and tear resistance
- Sunlight-resistant
- Reinforced jacket for increased durability
- TRU-Mark® sequential footage marking

Industry Approvals:
- RoHS Compliant
- Passes MSHA Flame Test
- Additional rating available upon request
- Other sizes and numbers of conductors available upon request

Applicable Standards:
- ICEA S-75-381

Packaging:
- Lengths cut to order

COLOR CODE CHART

NO. OF CONDUCTORS	COLOR**
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green
5	Black, White, Red, Green, Orange
6	Black, White, Red, Green, Orange, Blue

** Green conductor for grounding only.

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOMINAL COND. O.D.		NOMINAL INS. THICKNESS		NOMINAL O.D.		CURRENT AMPS(1)	APPROX. NET WT. LBS/M'(S)
				INCHES	mm	INCHES	mm	INCHES	mm		
CPE JACKET											
02861	2	14	41/30	0.072	1.96	0.045	1.14	0.640	16.26	18	210
02862	3	14	41/30	0.072	1.96	0.045	1.14	0.670	17.02	18	240
02868	4	14	41/30	0.072	1.96	0.045	1.14	0.715	18.16	15	285
02835	5	14	41/30	0.072	1.96	0.045	1.14	0.785	19.94	12	345
02845	5	12	65/30	0.096	2.44	0.045	1.14	0.840	21.34	16	405
02806	6	12	65/30	0.096	2.44	0.045	1.14	0.890	22.61	16	470
02855	5	10	104/30	0.117	2.97	0.045	1.14	0.895	22.73	20	495
NEOPRENE JACKET											
02961*	2	14	41/30	0.072	1.96	0.045	1.14	0.640	16.26	18	220
02962*	3	14	41/30	0.072	1.96	0.045	1.14	0.670	17.02	18	260
02968*	4	14	41/30	0.072	1.96	0.045	1.14	0.715	18.16	15	300
02935*	5	14	41/30	0.072	1.96	0.045	1.14	0.785	19.94	12	365
02945*	5	12	65/30	0.096	2.44	0.045	1.14	0.840	21.34	16	425
02906*	6	12	65/30	0.096	2.44	0.045	1.14	0.890	22.61	16	490
02955*	5	10	104/30	0.117	2.97	0.045	1.14	0.895	22.73	20	515

* Non-stock item; minimum quantity purchase required.
(1) Ampacities based on 90°C conductor and 30°C ambient temperature per NEC Table 400.5(A)(1) of the National Electrical Code®.
(S) Actual shipping weight may vary.

General Cable

Made in U.S.A.

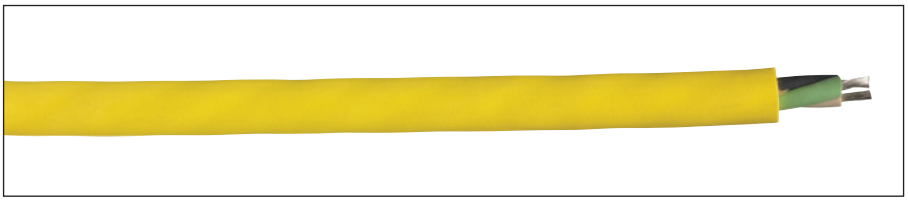
RoHS Compliant Directive 2011/65/EU

MSHA Mine Safety and Health Administration

CAROL® BRAND

Super Vu-Tron® Supreme Types SJOOW/SOOW

105°C, 300 and 600 Volt, UL/CSA Portable Cord



TYPE SJOOW – 300 VOLT – UL/CSA

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	STRAND O.D.	NOM. INS. THICKNESS		JACKET NOMINAL O.D.		CURRENT AMPS†	APPROX. NET WT. LBS/M'(S)	COPPER WT. LBS/M'	STD. CTN.
					INCHES	mm	INCHES	mm				
02601	2	18	41/34	.048"	0.030	0.76	0.310	7.87	10	56	10	1000'
02602	3	18	41/34	.048"	0.030	0.76	0.320	8.13	10	66	15	1000'
02603	4	18	41/34	.048"	0.030	0.76	0.345	8.76	7	79	20	250'
02604	2	16	65/34	.057"	0.030	0.76	0.315	8.00	13	62	16	1000'
02605	3	16	65/34	.057"	0.030	0.76	0.335	8.51	13	77	24	250'
02606	4	16	65/34	.057"	0.030	0.76	0.370	9.40	10	98	32	250'
02607	2	14	105/34	.077"	0.030	0.76	0.370	9.40	18	75	24	250'
02608	3	14	105/34	.077"	0.030	0.76	0.375	9.53	18	99	36	250'
02609	4	14	105/34	.077"	0.030	0.76	0.405	10.29	15	122	48	250'

TYPE SOOW – 600 VOLT – UL/CSA

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INS. THICKNESS		JACKET NOMINAL O.D.		CURRENT AMPS†	APPROX. NET WT. LBS/M'(S)	COPPER WT. LBS/M'	STD. CTN.
				INCHES	mm	INCHES	mm				
02631*	2	18	41/34	0.030	0.76	0.365	9.27	10	75	10	250'
02632	3	18	41/34	0.030	0.76	0.375	9.53	10	84	15	250'
02633*	4	18	41/34	0.030	0.76	0.400	10.16	7	110	21	250'
02634	2	16	65/34	0.030	0.76	0.370	9.40	13	80	16	250'
02635	3	16	65/34	0.030	0.76	0.395	10.03	13	96	24	250'
02636	4	16	65/34	0.030	0.76	0.425	10.80	10	118	32	250'
02621	5	16	65/34	0.030	0.76	0.515	13.08	8	166	40	250'
02637*	2	14	105/34	0.045	1.14	0.510	12.95	18	153	24	250'
02638	3	14	105/34	0.045	1.14	0.525	13.34	18	164	36	250'
02639	4	14	105/34	0.045	1.14	0.575	14.61	15	204	48	250'
02622*	5	14	105/34	0.045	1.14	0.675	17.15	12	279	60	250'
02641*	2	12	168/34	0.045	1.14	0.590	14.99	25	198	38	250'
02642	3	12	168/34	0.045	1.14	0.600	15.24	25	224	57	250'
02643	4	12	168/34	0.045	1.14	0.650	16.51	20	270	76	250'
02623*	5	12	168/34	0.045	1.14	0.730	18.54	16	308	96	250'
02645	3	10	259/34	0.045	1.14	0.660	16.76	30	295	99	250'
02646	4	10	259/34	0.045	1.14	0.710	18.03	25	365	132	250'
02624*	5	10	259/34	0.045	1.14	0.770	19.56	20	422	168	250'

* Non-stock item; minimum quantity purchase required.
† Green conductor for grounding only. Ampacities based on NEC Table 400.5(A)(1).
(S) Actual shipping weight may vary.

TOP PERFORMANCE IN THE TOUGHEST ENVIRONMENTS

Volume change (%) of SUPER VU-TRON® SUPREME after 28 days at room temperature in the following materials			
ACETIC ACID (30%)	+19.00	LINSEED OIL	+1.04
AMMONIA HYDROXIDE	+3.12	LUBE OIL	-1.82
ASTM 3 OIL	+0.26	MILK	+4.16
BEER	+4.42	NITRIC ACID (10%)	+7.29
BLEACH WATER	+2.60	SAE 30 OIL	-1.30
BUTYL ALCOHOL	-1.82	SKYDROL 500	+17.10
CORN OIL	0.00	SODIUM HYDROXIDE	+10.90
FORMALDEHYDE	+3.38	SULFURIC ACID (10%)	+2.34
GLYCOL (ANTI-FREEZE)	-2.60	TOLUENE	+30.20
HYDROCHLORIC ACID (20%)	+10.60	UNLEADED GAS	+22.10
JP-4	+10.90	WATER	+2.86
KEROSENE	+10.60		

COLOR CODE CHART

NO. OF CONDUCTORS	COLOR
2	Black, White
3	Black, White, Green/Yellow
4	Black, White, Red, Green/Yellow
5	Black, White, Red, Green/Yellow, Orange

Product Construction:

Conductors:
- 18 through 10 AWG fully annealed stranded tinned copper

Insulation:
- Premium-grade, color-coded, oil-resistant 105°C EPDM
- Color code: See chart below

Jacket:
- Super Vu-Tron® Supreme, yellow
- Temperature range: –50°C to +105°C UL/CSA
- Voltage rating: 300 volts Type SJOOW 600 volts Type SOOW

Jacket Marking:
- SUPER VU-TRON® SUPREME SJOOW - CAROL SUPER VU-TRON® SUPREME (SIZE) (mm²) 105°C (UL) WATER RESISTANT SJOOW CSA (-50°C) FT1 --- P-07-KA120015-MSHA 300 VOLT ROHS MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)
- SUPER VU-TRON® SUPREME SOOW - CAROL SUPER VU-TRON® SUPREME (SIZE) (mm²) 105°C (UL) WATER RESISTANT SOOW CSA (-50°C) FT1 --- P-07-KA120015-MSHA 600 VOLT ROHS MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)

Applications:
- Machine tools
- Power tools
- Dockside power applications
- Motor leads
- Portable machinery
- Cranes
- Submersible pumps
- Where water immersion is required
- Severe environment OEM/MRO applications

Features:
- Excellent flexibility in cold temperatures
- Lasts longer in flex applications (extra-flexible Class M stranding)
- Integral Flexfill®
- Ozone-, sunlight (UV)- and weather-resistant
- UL Listed and CSA Certified for indoor and outdoor use
- Water-resistant*
- Safety-colored, with high-visibility yellow jacket
- High heat and flame resistance
- Resistant to sunlight, oils, acids and chemicals
- Excellent abrasion and cut resistance
- TRU-Mark® sequential footage marking
- Tinned copper conductors — corrosion/oxidation-resistant

Industry Approvals:
- UL Flexible Cord - UL 62
- CSA Flexible Cord - C22.2-49
- MSHA Approved
- OSHA Acceptable
- RoHS Compliant

Packaging:
- 250' (76.2 m), 500' (152.4 m), 1000' (304.8 m)
- Other put-ups available on special order

* Suitable for immersion in water if properly sealed and terminated.

CAROL BRAND · UL LISTED · CSA Certified Canadian Standard Association · OSHA Acceptable Occupational Safety and Health Administration · MSHA Mine Safety and Health Administration · RoHS Compliant Directive 2011/65/EU · Made in U.S.A. · General Cable

Carolprene® Jacketed Type SOOW

90°C, 600 Volt, UL/CSA Portable Cord

NOW WITH TRU-Mark® Footage Marking System PRECISION

Product Construction:

Conductors:
- 18 through 2 AWG fully annealed stranded bare copper

Insulation:
- Premium-grade, color-coded 90°C EPDM
- Color code: See chart below

Jacket:
- Carolprene®, black
- Temperature range: -40°C to +90°C

Jacket Marking:
- CAROL (SIZE) (mm²) 90°C (UL) WATER RESISTANT SOOW CSA (-40°C) FT2 P-7K-123033 MSHA 600 VOLT ROHS MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)

Applications:
- Portable tools and equipment
- Portable appliances
- Small motors and associated machinery

Features:
- Excellent resistance to oil and moisture
- Good tensile strength, elongation and aging characteristics
- High flexibility
- Excellent abrasion resistance
- Water-resistant*
- UL Listed and CSA Certified for indoor and outdoor use
- Ozone-, sunlight (UV)- and weather-resistant
- TRU-Mark® sequential footage marking

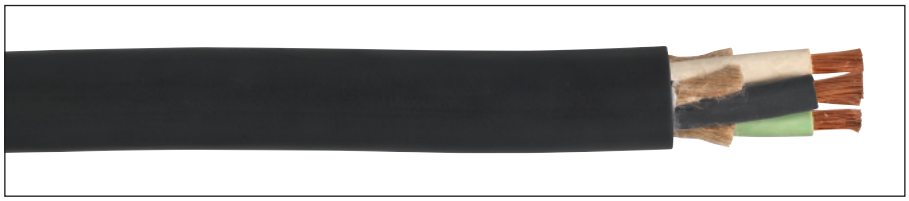
Industry Approvals:
- UL Flexible Cord - UL 62
- CSA Flexible Cord - C22.2-49
- MSHA Approved
- RoHS Compliant

Packaging:
- 250' (76.2 m), 500' (152.4 m), 1000' (304.8 m)
- Other put-ups available on special order

* Suitable for immersion in water if properly sealed and terminated.

COLOR CODE CHART

NO. OF CONDUCTORS	COLOR
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green
5	Black, White, Red, Green, Orange



TYPE SOOW – 600 VOLT – UL/CSA

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOMINAL INS. THICKNESS		NOMINAL O.D.		CURRENT AMPS†	APPROX. NET WT. LBS/M[1(S)]	STD. CTN.
				INCHES	mm	INCHES	mm			
02763	2	18	16/30	0.030	0.76	0.345	8.76	10	65	250'
02769	3	18	16/30	0.030	0.76	0.365	9.27	10	80	250'
02770	4	18	16/30	0.030	0.76	0.390	9.91	7	94	250'
02722	2	16	26/30	0.030	0.76	0.370	9.40	13	77	250'
02765	3	16	26/30	0.030	0.76	0.390	9.91	13	94	250'
02766	4	16	26/30	0.030	0.76	0.420	10.67	10	114	250'
02723	2	14	41/30	0.045	1.14	0.510	12.95	18	154	250'
02762	3	14	41/30	0.045	1.14	0.535	13.59	18	171	250'
02768	4	14	41/30	0.045	1.14	0.575	14.61	15	209	250'
02724	2	12	65/30	0.045	1.14	0.570	14.48	25	168	250'
02725	3	12	65/30	0.045	1.14	0.595	15.11	25	223	250'
02726	4	12	65/30	0.045	1.14	0.650	16.51	20	276	250'
02767	2	10	104/30	0.045	1.14	0.620	15.75	30	230	250'
02728	3	10	104/30	0.045	1.14	0.660	16.76	30	289	250'
02727	4	10	104/30	0.045	1.14	0.715	18.16	25	351	250'
16063	3	8	133/29	0.060	1.52	0.840	21.33	40	450	250'
16064	4	8	133/29	0.060	1.52	0.945	24.00	35	580	250'
16065	5	8	133/29	0.060	1.52	1.030	26.16	28	700	250'
16073	3	6	133/27	0.060	1.52	0.980	24.89	55	637	250'
16074	4	6	133/27	0.060	1.52	1.080	27.43	45	830	250'
16075	5	6	133/27	0.060	1.52	1.200	30.48	36	1015	250'
16083	3	4	133/25	0.060	1.52	1.140	28.96	70	926	250'
16084	4	4	133/25	0.060	1.52	1.260	32.00	60	1145	250'
16085	5	4	133/25	0.060	1.52	1.365	34.67	48	1419	250'
16093	3	2	133/23	0.060	1.52	1.330	33.78	95	1367	250'
16094	4	2	133/23	0.060	1.52	1.460	37.08	80	1699	250'
16095*	5	2	133/23	0.060	1.52	1.580	40.13	64	2066	250'

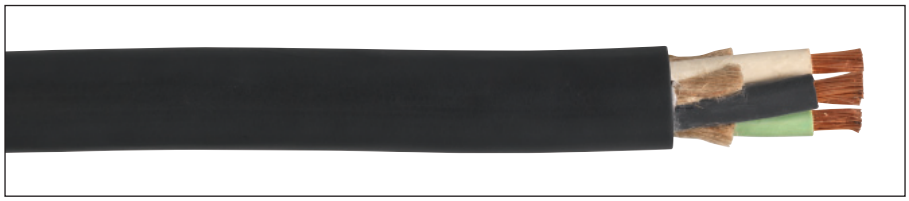
Cord furnished with UL and CSA labels.
* Non-stock item; minimum quantity purchase required.
† Green conductor for grounding only. Ampacities based on NEC Table 400.5(A)(1).
(S) Actual shipping weight may vary.

General Cable

Made in U.S.A. | RoHS Compliant Directive 2011/65/EU | MSHA Mine Safety and Health Administration | CSA Certified Canadian Standard Association | UL LISTED | CAROL BRAND

Carolprene® Jacketed Type SJOOW

90°C, 300 Volt, UL/CSA Portable Cord



TYPE SJOOW – 300 VOLT – UL/CSA

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOMINAL INS. THICKNESS		NOMINAL O.D.		CURRENT AMPS†	APPROX. NET WT. LBS/M'(S)	STD. CTN.
				INCHES	mm	INCHES	mm			
01310	2	18	16/30	0.030	0.76	0.285	7.24	10	46	1000'
01311	3	18	16/30	0.030	0.76	0.305	7.75	10	60	1000'
01344	4	18	16/30	0.030	0.76	0.330	8.38	7	72	250'
01312	2	16	26/30	0.030	0.76	0.310	7.87	13	56	1000'
01342	3	16	26/30	0.030	0.76	0.330	8.38	13	72	250'
01343	4	16	26/30	0.030	0.76	0.365	9.27	10	89	250'
01358	2	14	41/30	0.030	0.76	0.340	8.64	18	75	250'
01360	3	14	41/30	0.030	0.76	0.370	9.40	18	100	250'
01364	4	14	41/30	0.030	0.76	0.410	10.41	15	128	250'
01379	2	12	65/30	0.030	0.76	0.410	10.41	25	108	250'
01380	3	12	65/30	0.030	0.76	0.430	10.92	25	136	250'
01381	4	12	65/30	0.030	0.76	0.475	12.07	20	177	250'
01382*	2	10	104/30	0.045	1.14	0.560	14.22	30	190	250'
01383	3	10	104/30	0.045	1.14	0.580	14.73	30	236	250'
01384	4	10	104/30	0.045	1.14	0.655	16.64	25	296	250'

Cord furnished with UL and CSA labels.

* Non-stock item; minimum quantity purchase required.

† Green conductor for grounding only. Ampacities based on NEC Table 400.5(A)(1).

(S) Actual shipping weight may vary.

Product Construction:

Conductors:

- 18 through 10 AWG fully annealed stranded bare copper

Insulation:

- Premium-grade, color-coded 90°C EPDM
- Color code: See chart below

Jacket:

- Carolprene®, black
- Temperature range: -40°C to +90°C

Jacket Marking:

- CAROL (SIZE) (mm²) 90°C (UL) WATER RESISTANT SJOOW CSA (-40°C) FT2 P-7K-123033 MSHA 300 VOLT ROHS MADE IN USA (TRU-MARK SEQUENTIAL FOOTAGE)

Applications:

- Portable tools and equipment
- Portable appliances
- Small motors and associated machinery

Features:

- Excellent resistance to oil and moisture
- Good tensile strength, elongation and aging characteristics
- High flexibility
- Excellent abrasion resistance
- Water-resistant*
- UL Listed and CSA Certified for indoor and outdoor use
- Ozone-, sunlight (UV)- and weather-resistant
- TRU-Mark® sequential footage marking

Industry Approvals:

- UL Flexible Cord - UL 62
- CSA Flexible Cord - C22.2-49
- MSHA Approved
- RoHS Compliant

Packaging:

- 250' (76.2 m), 500' (152.4 m), 1000' (304.8 m)
- Other put-ups available on special order

* Suitable for immersion in water if properly sealed and terminated.

COLOR CODE CHART

NO. OF CONDUCTORS	COLOR
2	Black, White
3	Black, White, Green
4	Black, White, Red, General

Carolprene® Jacketed Type SOOW

90°C, 600 Volt, Non-UL Portable Cord

Product Construction:

Conductors:
- 8 through 2 AWG fully annealed stranded bare copper

Insulation:
- Premium-grade, color-coded 90°C EPDM
- Color code: See chart below

Jacket:
- Carolprene®, black
- Temperature range: -40°C to +90°C

Jacket Marking:
- CAROL (SIZE) TYPE SOOW 90°C P-7K-123033 MSHA 600 VOLT ROHS MADE IN USA

Applications:
- Portable tools and equipment
- Temporary and portable power
- Motors and associated machinery

Features:
- Excellent resistance to oil and moisture
- Good tensile strength, elongation and aging characteristics
- High flexibility
- Excellent abrasion resistance
- Ozone-, sunlight (UV)- and weather-resistant
- Water-resistant*

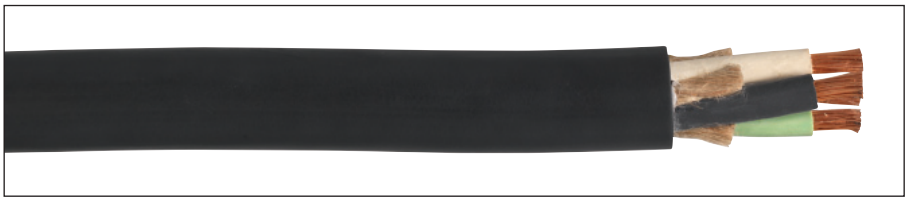
Industry Approvals:
- MSHA Approved
- RoHS Compliant

Packaging:
- 250' (76.2 m), 500' (152.4 m), 1000' (304.8 m)
- Other put-ups available on special order

* Suitable for immersion in water if properly sealed and terminated.

COLOR CODE CHART

NO. OF CONDUCTORS	COLOR
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green
5	Black, White, Red, Green, Orange



TYPE SOOW, NON-UL – 600 VOLT

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOMINAL INS. THICKNESS		NOMINAL O.D.		CURRENT AMPS†	APPROX. NET WT. LBS/M'(S)	STD. CTN.
				INCHES	mm	INCHES	mm			
01811*	2	8	65/26	0.050	1.27	0.660	16.76	40	278	250'
01812	3	8	65/26	0.050	1.27	0.695	17.65	40	343	250'
01827	4	8	65/26	0.050	1.27	0.760	19.30	35	442	250'
98267	5	8	65/26	0.050	1.27	0.840	21.34	28	542	250'
01825	3	6	101/26	0.050	1.27	0.790	20.07	55	482	250'
01824	4	6	101/26	0.050	1.27	0.865	21.97	45	599	250'
98270	5	6	101/26	0.050	1.27	0.945	24.00	36	750	250'
01823*	2	4	119/25	0.050	1.27	0.870	22.09	70	515	250'
01822	3	4	119/25	0.050	1.27	0.925	23.49	70	683	250'
01821	4	4	119/25	0.050	1.27	1.015	25.78	60	851	250'
98463	5	4	119/25	0.050	1.27	1.115	28.32	48	1039	250'
01819	3	2	133/.0211	0.055	1.40	1.085	27.56	95	1003	250'
01818	4	2	133/.0211	0.055	1.40	1.170	29.72	80	1248	250'
98187	5	2	133/.0211	0.055	1.40	1.390	35.31	64	1684	250'

* Non-stock item; minimum quantity purchase required.
† Green conductor for grounding only. Ampacities based on NEC Table 400.5(A)(1).
(S) Actual shipping weight may vary.

General Cable

Made in U.S.A.

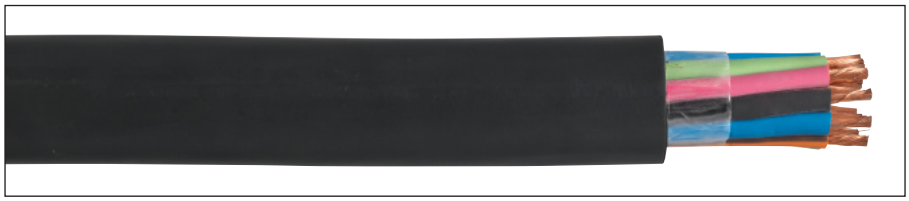
RoHS Compliant Directive 2011/65/EU

MSHA Mine Safety and Health Administration

CAROL® BRAND

Super Vu-Tron® Multi-Conductor Type SOOW

90°C, 600 Volt, UL/CSA Portable Cord



TYPE S00W – 600 VOLT – UL/CSA

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOMINAL INS. THICKNESS		NOMINAL O.D.		CURRENT AMPS†	APPROX. NET WT. LBS/M'(S)
				INCHES	mm	INCHES	mm		
09805	5	18	16/30	0.030	0.76	0.465	11.81	5.6	131
09806	6	18	16/30	0.030	0.76	0.495	12.57	5.6	142
09807	7	18	16/30	0.030	0.76	0.520	13.21	5.6	161
09808	8	18	16/30	0.030	0.76	0.530	13.46	4.9	173
09810	10	18	16/30	0.030	0.76	0.595	15.11	4.9	221
09812	12	18	16/30	0.030	0.76	0.600	15.24	3.5	235
09814	14	18	16/30	0.030	0.76	0.630	16.00	3.5	262
09816	16	18	16/30	0.030	0.76	0.700	17.78	3.5	306
09818*	18	18	16/30	0.030	0.76	0.760	19.30	3.5	341
09820	20	18	16/30	0.030	0.76	0.795	20.19	3.5	377
09822*	22	18	16/30	0.030	0.76	0.805	20.45	3.1	400
09824	24	18	16/30	0.030	0.76	0.850	21.59	3.1	453
09827*	27	18	16/30	0.030	0.76	0.865	21.97	3.1	475
09830*	30	18	16/30	0.030	0.76	0.915	23.24	3.1	524
09605	5	16	26/30	0.030	0.76	0.495	12.57	8.0	152
09606	6	16	26/30	0.030	0.76	0.520	13.21	8.0	184
09607	7	16	26/30	0.030	0.76	0.540	13.72	8.0	210
09608	8	16	26/30	0.030	0.76	0.575	14.61	7.0	228
09609	9	16	26/30	0.030	0.76	0.600	15.24	7.0	255
09610	10	16	26/30	0.030	0.76	0.620	15.75	5.0	260
09612	12	16	26/30	0.030	0.76	0.660	16.76	5.0	319
09614	14	16	26/30	0.030	0.76	0.730	18.54	5.0	343
09616	16	16	26/30	0.030	0.76	0.740	18.80	5.0	367
09618*	18	16	26/30	0.030	0.76	0.770	19.56	5.0	405
09620	20	16	26/30	0.030	0.76	0.810	20.57	5.0	444
09622*	22	16	26/30	0.030	0.76	0.900	22.86	4.5	510
09624	24	16	26/30	0.030	0.76	0.925	23.50	4.5	547
09626*	26	16	26/30	0.030	0.76	0.965	24.51	4.5	611
09630	30	16	26/30	0.030	0.76	1.010	25.65	4.5	685

† Values shown are for current-carrying conductors. A grounding conductor, or one which carries only the unbalance current from other conductors, is NOT counted in determining current carrying capacity. Ampacities based on NEC Table 400.5(A)(1).

* Non-stock item; minimum quantity purchase required.

(S) Actual shipping weight may vary.

COLOR CODE CHART

NO. OF COND.	COLOR	TRACER	NO. OF COND.	COLOR	TRACER	NO. OF COND.	COLOR	TRACER
1	Black	—	8	Red	Black	15	Blue	White
2	White	—	9	Green	Black	16	Black	Red
3	Red	—	10	Orange	Black	17	White	Red
4	Green	—	11	Blue	Black	18	Orange	Red
5	Orange	—	12	Black	White	19	Blue	Red
6	Blue	—	13	Red	White	20	Red	Green
7	White	Black	14	Green	White	21	Orange	Green

Note: Colors repeat after 21 conductors.

Product Construction:

Conductors:
- 18 and 16 AWG fully annealed stranded bare copper

Insulation:
- Premium-grade, color-coded 90°C EPDM
- Color code: See chart below

Jacket:
- Super Vu-Tron® 90°C, black
- Temperature range: -40°C to +90°C

Jacket Marking:
- CAROL SUPER VU-TRON® (SIZE) (mm^2) 90°C (UL) WATER RESISTANT SOOW CSA (-40°C) FT2 P-7K-123033 MSHA 600 VOLT ROHS MADE IN USA

Applications:
- Control circuits
- Tools
- Heavy industrial, processing and construction equipment

Features:
- Extra-flexible stranding
- Abrasion-resistant
- Resists oils and solvents
- Flame-resistant
- Ozone-resistant
- 90°C rated conductors and jacket
- Water-resistant*
- UL Listed and CSA Certified for indoor and outdoor use
- Ozone-, sunlight (UV)- and weather-resistant

Industry Approvals:
- UL Flexible Cord - UL 62
- CSA Flexible Cord - C22.2-49
- MSHA Approved
- RoHS Compliant

Packaging:
- 5- through 8-conductor available on 250' (76.2 m), 500' (152.4 m), and 1000' (304.8 m) reels
- 9+ cond. available on long-length reels
- Other put-ups available on special order

* Suitable for immersion in water if properly sealed and terminated.



CAROL BRAND® UL LISTED Certified Canadian Standard Association MSHA Mine Safety and Health Administration RoHS Compliant Directive 2011/65/EU Made in U.S.A.

General Cable

Super Vu-Tron® Multi-Conductor Type SOOW

90°C, 600 Volt, UL/CSA Portable Cord

Product Construction:

Conductors:
- 14 through 10 AWG fully annealed stranded bare copper

Insulation:
- Premium-grade, color-coded 90°C EPDM
- Color code: See chart below

Jacket:
- Super Vu-Tron® 90°C, black
- Temperature range: -40°C to +90°C

Jacket Marking:
- CAROL SUPER VU-TRON® (SIZE) (mm^2) 90°C (UL) WATER RESISTANT SOOW CSA (-40°C) FT2 P-7K-123033 MSHA 600 VOLT ROHS MADE IN USA

Applications:
- Control circuits
- Tools
- Heavy industrial, processing and construction equipment

Features:
- Extra-flexible stranding
- Abrasion-resistant
- Resists oils and solvents
- Flame-resistant
- Ozone-resistant
- 90°C rated conductors and jacket
- Water-resistant*
- UL Listed and CSA Certified for indoor and outdoor use
- Ozone-, sunlight (UV)- and weather-resistant

Industry Approvals:
- UL Flexible Cord - UL 62
- CSA Flexible Cord - C22.2-49
- MSHA Approved
- RoHS Compliant

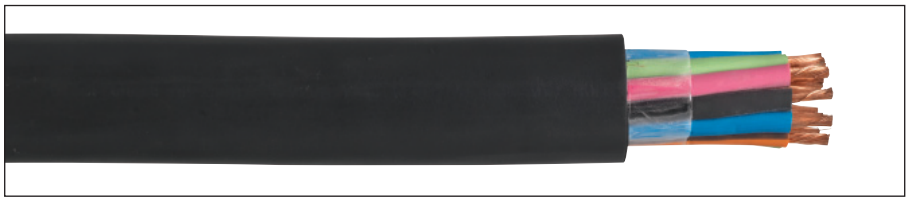
Packaging:
- 5- through 8-conductor available on 250' (76.2 m), 500' (152.4 m), and 1000' (304.8 m) reels
- 9+ cond. available on long-length reels
- Other put-ups available on special order

* Suitable for immersion in water if properly sealed and terminated.

COLOR CODE CHART

NO. OF COND.	COLOR	TRACER	NO. OF COND.	COLOR	TRACER
1	Black	–	12	Black	White
2	White	–	13	Red	White
3	Red	–	14	Green	White
4	Green	–	15	Blue	White
5	Orange	–	16	Black	Red
6	Blue	–	17	White	Red
7	White	Black	18	Orange	Red
8	Red	Black	19	Blue	Red
9	Green	Black	20	Red	Green
10	Orange	Black	21	Orange	Green
11	Blue	Black			

Note: Colors repeat after 21 conductors. Refer to page 45 for color diagram.



TYPE S00W – 600 VOLT – UL/CSA

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOMINAL INS. THICKNESS		NOMINAL O.D.		CURRENT AMPS†	APPROX. NET WT. LBS/M'(S)
				INCHES	mm	INCHES	mm		
09405	5	14	41/30	0.045	1.14	0.645	16.26	12.0	266
09406	6	14	41/30	0.045	1.14	0.710	18.03	12.0	313
09407	7	14	41/30	0.045	1.14	0.755	19.18	12.0	326
09408	8	14	41/30	0.045	1.14	0.810	20.57	10.5	366
09409*	9	14	41/30	0.045	1.14	0.860	21.84	10.5	419
09410	10	14	41/30	0.045	1.14	0.875	22.23	10.5	436
09412	12	14	41/30	0.045	1.14	0.900	22.86	7.5	516
09414	14	14	41/30	0.045	1.14	1.000	25.40	7.5	597
09416	16	14	41/30	0.045	1.14	1.030	26.16	7.5	658
09418*	18	14	41/30	0.045	1.14	1.100	27.94	7.5	720
09420	20	14	41/30	0.045	1.14	1.155	29.34	7.5	799
09424	24	14	41/30	0.045	1.14	1.260	32.00	6.7	998
09428*	28	14	41/30	0.045	1.14	1.330	33.78	6.7	1080
09430*	30	14	41/30	0.045	1.14	1.335	33.97	6.0	1146
09205	5	12	65/30	0.045	1.14	0.715	18.16	16.0	326
09206	6	12	65/30	0.045	1.14	0.740	18.80	16.0	362
09207	7	12	65/30	0.045	1.14	0.790	20.07	16.0	415
09208	8	12	65/30	0.045	1.14	0.825	20.96	14.0	464
09209	9	12	65/30	0.045	1.14	0.900	22.86	14.0	510
09210	10	12	65/30	0.045	1.14	0.950	24.13	14.0	602
09212	12	12	65/30	0.045	1.14	1.010	25.65	10.0	662
09214	14	12	65/30	0.045	1.14	1.020	25.91	10.0	724
09216	16	12	65/30	0.045	1.14	1.135	28.83	10.0	869
09218*	18	12	65/30	0.045	1.14	1.175	29.85	10.0	912
09220	20	12	65/30	0.045	1.14	1.175	29.84	10.0	977
09224	24	12	65/30	0.045	1.14	1.360	34.54	9.0	1236
09226	26	12	65/30	0.045	1.14	1.380	35.05	9.0	1309
09227*	27	12	65/30	0.045	1.14	1.390	35.30	9.0	1335
09228*	28	12	65/30	0.045	1.14	1.455	36.95	9.0	1375
09230	30	12	65/30	0.045	1.14	1.455	36.96	9.0	1512
09005	5	10	104/30	0.045	1.14	0.770	19.56	20.0	423
09006	6	10	104/30	0.045	1.14	0.875	22.23	20.0	508
09007	7	10	104/30	0.045	1.14	0.900	22.86	20.0	549
09008*	8	10	104/30	0.045	1.14	0.935	23.75	17.5	625
09010	10	10	104/30	0.045	1.14	1.020	25.91	17.5	755
09012	12	10	104/30	0.045	1.14	1.070	27.18	12.5	867
09016*	16	10	104/30	0.045	1.14	1.230	31.24	12.5	1142
09020*	20	10	104/30	0.045	1.14	1.325	33.66	12.5	1445

† Values shown are for current-carrying conductors. A grounding conductor, or one which carries only the unbalance current from other conductors, is NOT counted in determining current carrying capacity. Ampacities based on NEC Table 400.5(A)(1).

* Non-stock item; minimum quantity purchase required.

(S) Actual shipping weight may vary.

General Cable

Made in U.S.A. RoHS Compliant Directive 2011/65/EU MSHA Mine Safety and Health Administration Certified Canadian Standard Association UL LISTED CAROL BRAND

Technical Information 4



As mining cable applications have evolved, the process of specifying mining cables to meet these requirements has become more time consuming and complex.

Today's mine supervisors and engineers must be aware of not only the type of power distribution utilized but also the physical, environmental and electrical capabilities of each type of cable being specified. With this in mind, General Cable offers the most complete line of cables to serve the mining industry.

This technical section is presented to aid in the selection of the appropriate mining cable that best suits the application for which it is used.

For technical issues and questions, please contact your local General Cable distributor or our customer service department.

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Why and How Mining Cables Fail	50-51
Catalog Number Index	52-54
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Installation and Engineering Information

Proper Splices
While it is true that no splice is as good as a new cable, the use of quality materials and proven techniques can dramatically improve the service life of the cable splice. A well-made splice has the following characteristics:

1. High tensile strength — the splice cannot be easily pulled in two
2. Balanced conductors — equal tension on each conductor
3. Small outside diameter — the splice can be passed easily through existing cable guides
4. Low electrical resistance
5. Adequate insulation
6. High resistance to fatigue
7. A covering that is capable of keeping moisture from entering the cable interior

Shielding
Remember that an ungrounded shield is dangerous and should be treated as an energized conductor. The shield must be grounded at least at one end and preferably at two or more locations. It is recommended that shields be grounded at all cable terminations and splices. Stress cones should be installed at all high-voltage shield terminations.

Working Tension
The maximum working tension per conductor should not exceed 10 percent of the rated conductor strength. To determine the approximate tensile strength of the cable, multiply the total power conductor area (in^2) by 30,000 psi.

Bending Radius
Industry standard guidelines vary slightly regarding recommended bending radii for flexible cables. The table below shows the recommended bending radii of flexible mining cables from both ICEA and CSA:

	ICEA S-75-381	CSA 22.2 96
Braid-shielded portable cables ≤ 5000 V	6 times the cable diameter	8 times the cable diameter
Braid-shielded portable cables > 5000 V	8 times the cable diameter	8 times the cable diameter
Non-shielded portable cables	6 times the cable diameter	6 times the cable diameter
Flat non-shielded cables	6 times the minor dimension	6 times the cable diameter

The ICEA and CSA agree that the recommended bend radius of copper tape shielded mine power feeder cables is 12 times the cable diameter.

AMPACITY CORRECTION FACTORS
APPROXIMATE FOR ALL CABLE VOLTAGES

Correction factors are listed below for various ambient temperatures.

AMBIENT TEMPERATURE	CORRECTION FACTORS FOR INSULATIONS RATED AT:
˚C	90˚C
10	1.26
20	1.18
30	1.10
40	1.00
50	0.90

When cables are used with one or more layers wound on a reel, the ampacities should be derated as follows:

NUMBER OF LAYERS	MULTIPLY AMPACITIES BY
1	0.85
2	0.65
3	0.45
4	0.35

VOLTAGE DROP
Approximate for all cable voltages — three conductor cables

90˚C			
60-CYCLE PHASE-TO-PHASE VOLTAGE DROP PER AMPERE PER 1,000 FT AT POWER FACTORS OF:			
CONDUCTOR SIZE (AWG or kcmil)	80%	90%	100%
6	0.82	0.90	0.95
4	0.54	0.58	0.60
2	0.35	0.38	0.38
1	0.29	0.31	0.30
1/0	0.24	0.25	0.24
2/0	0.20	0.20	0.19
3/0	0.16	0.17	0.15
4/0	0.14	0.14	0.12
250	0.12	0.12	0.10
300	0.11	0.11	0.08
350	0.10	0.09	0.07
400	0.09	0.08	0.06
500	0.08	0.07	0.05

Installation and Engineering Information & AWG-to-Metric Conversion Chart

AMPACITIES FOR PORTABLE POWER CABLES, AMPERES PER CONDUCTOR

POWER CONDUCTOR SIZE	SINGLE CONDUCTOR				TWO CONDUCTOR ROUND AND FLAT	THREE CONDUCTOR ROUND AND FLAT	THREE CONDUCTOR ROUND			FOUR CONDUCTOR	FIVE CONDUCTOR	SIX CONDUCTOR
AWG or kcmil	0-2000 VOLTS NONSHIELDED	2001-8000 VOLTS* SHIELDED	8001-15000 VOLTS* SHIELDED	15001-25000 VOLTS* SHIELDED	0-2000 VOLTS	0-5000 VOLTS NON-SHIELDED	0-8000 VOLTS SHIELDED	8001-15000 VOLTS SHIELDED	15001-25000 VOLTS SHIELDED	0-2000 VOLTS	0-2000 VOLTS	0-2000 VOLTS
8	83	-	-	-	72	59	-	-	-	54	50	48
6	109	112	-	-	95	79	93	-	-	72	68	64
4	145	148	-	-	127	104	122	-	-	93	88	83
3	167	171	-	-	145	120	140	-	-	106	100	95
2	192	195	195	-	167	138	159	164	178	122	116	110
1	223	225	225	222	191	161	184	187	191	143	136	129
1/0	258	260	259	255	217	186	211	215	218	165	-	-
2/0	298	299	298	293	250	215	243	246	249	192	-	-
3/0	345	345	343	337	286	249	279	283	286	221	-	-
4/0	400	400	397	389	328	287	321	325	327	255	-	-
250	445	444	440	430	363	320	355	359	360	280	-	-
300	500	496	491	480	400	357	398	-	-	310	-	-
350	552	549	543	529	436	394	435	-	-	335	-	-
400	600	596	590	572	470	430	470	-	-	356	-	-
450	650	640	633	615	497	460	503	-	-	377	-	-
500	695	688	678	659	524	487	536	-	-	395	-	-
550	737	732	-	-	-	-	-	-	-	-	-	-
600	780	779	-	-	-	-	-	-	-	-	-	-
650	820	817	-	-	-	-	-	-	-	-	-	-
700	855	845	-	-	-	-	-	-	-	-	-	-
750	898	889	-	-	-	-	-	-	-	-	-	-
800	925	925	-	-	-	-	-	-	-	-	-	-
900	1010	998	-	-	-	-	-	-	-	-	-	-
1000	1076	1061	-	-	-	-	-	-	-	-	-	-

*These ampacities are based on a single isolated cable in air, operated with an open-circuited shield.

NOTE – These ampacities are based on a conductor temperature of 90˚C and an ambient air temperature of 40˚C.

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AWG-TO-METRIC CONVERSION CHART

SIZE (AWG)	mm^2	SIZE (AWG or kcmil)	mm^2
18	0.82	1/0	53.5
16	1.31	2/0	64.4
14	2.08	3/0	85.0
12	3.31	4/0	107.0
10	5.26	250	127.0
9	6.63	300	152.0
8	8.37	350	177.0
6	13.30	500	253.0
4	21.15	600	304.0
2	33.62	750	380.0
1	42.40	1000	507.0

Why and How Mining Cables Fail

Cable breakdowns are neither mysterious nor unaccountable and almost without exception can be traced to one or more of the following causes:

1. Excessive tension
2. Mechanical damage
3. Current overload
4. Improper splicing and termination techniques

Excessive Tension

Many cable failures are the direct result of excessive tension. A cable that has been “stretched” no longer has the balanced construction that is so vital to long life. Tension on the conductors subjects the individual wires in the strand to compression and shear. These thin wires are damaged and will break more easily when bent or flexed.

Tension also elongates the conductor insulation. The elongated insulation is then vulnerable to compression cutting. It will rupture more easily when it is crushed against the stranded conductor during runovers. The insulation will also have a tendency to creep over the conductor at a splice.

Jackets under tension lose a considerable part of their resistance to mechanical damage. A jacket under tension is much more likely to be cut or torn. Stretching also causes the copper conductors to take a permanent set. Of course, the insulation and jacket are stretched as well, but they will return to their original length when the tension is removed. This difference in the properties of rubber and copper when subjected to tension will cause the conductors to be wavy and fail prematurely.

To reduce tension on the cable:

1. Avoid backspooling, if possible.
2. If backspooling is unavoidable, locate the tie point as far back from the haulageway as possible.
3. Tram slowly when passing the tie point.
4. Set hydraulic tension on the cable reel so that approximately 12-15 feet of cable is picked up off the mine bottom when starting to tram.

Mechanical Damage

This is one of the most prevalent sources of trailing cable failures. Factors initiating mechanical damage include cutting, compression (crushing), punctures and abrasion. In extreme cases of mechanical damage, the failure is instant, and the cause can be assigned on the spot. Many times, however, the cable components are merely “injured” and become latent failures. At that point, it may be more difficult to pinpoint the exact cause and to take remedial action.

Why and How Mining Cables Fail

Current Overload

The temperatures of the conductors, insulation and jacket are, of course, elevated when cables are subjected to an electrical load. The resistance of the copper is increased, voltage drop in the cable is increased, and therefore, a reduced voltage is supplied to the machine. As a result, the machine calls for more current, which adds further to cable heating. A trailing cable's insulation and jacket materials exhibit maximum resistance to physical abuse at the rated conductor temperature of 90°C or less. The ability of these components to withstand damage decreases as the temperature increases. Conditions which normally cause few cable failures suddenly become a problem. At elevated temperatures, the jacket has lost much of its resistance to cutting, crushing, tearing and abrasion. The section of the cable that remains on the reel is most likely to be damaged by electrical overload. Layering on the reel hinders ventilation and heat dissipation. Continued exposure to elevated temperatures will age the jacket, making it hard and brittle and causing crazing or cracking upon subsequent reeling.

Improper Splicing and Termination Techniques

Over the years, much work has been done to improve both splicing materials and techniques.

The following items have been found to be primarily responsible for unsatisfactory splice service:

1. Ending up with a grounding or ground-check conductor which is shorter than the power conductors
2. Semi-conducting residue on the insulation surface was not removed
3. Gaps, voids or soft spots in insulating tape build-up
4. Improper termination of shielding system, leaving inward-pointing projections
5. Damage to factory insulation by improper removal of shielding systems
6. Excessive slack in one or more individual conductors
7. Splice has low tensile strength and is easily pulled in two
8. Individual wires are damaged during application of connector
9. Splice is too bulky — will not pass through cable guides or over sheaves
10. Improper application of the outer covering, allowing water to enter the cable interior

By choosing a cable with an adequate current rating, avoiding excessive tension and mechanical damage, and using proper splicing techniques, it is not unreasonable to reduce cable-related downtime by 50 percent or more. This will, of course, translate into increased production and profits.

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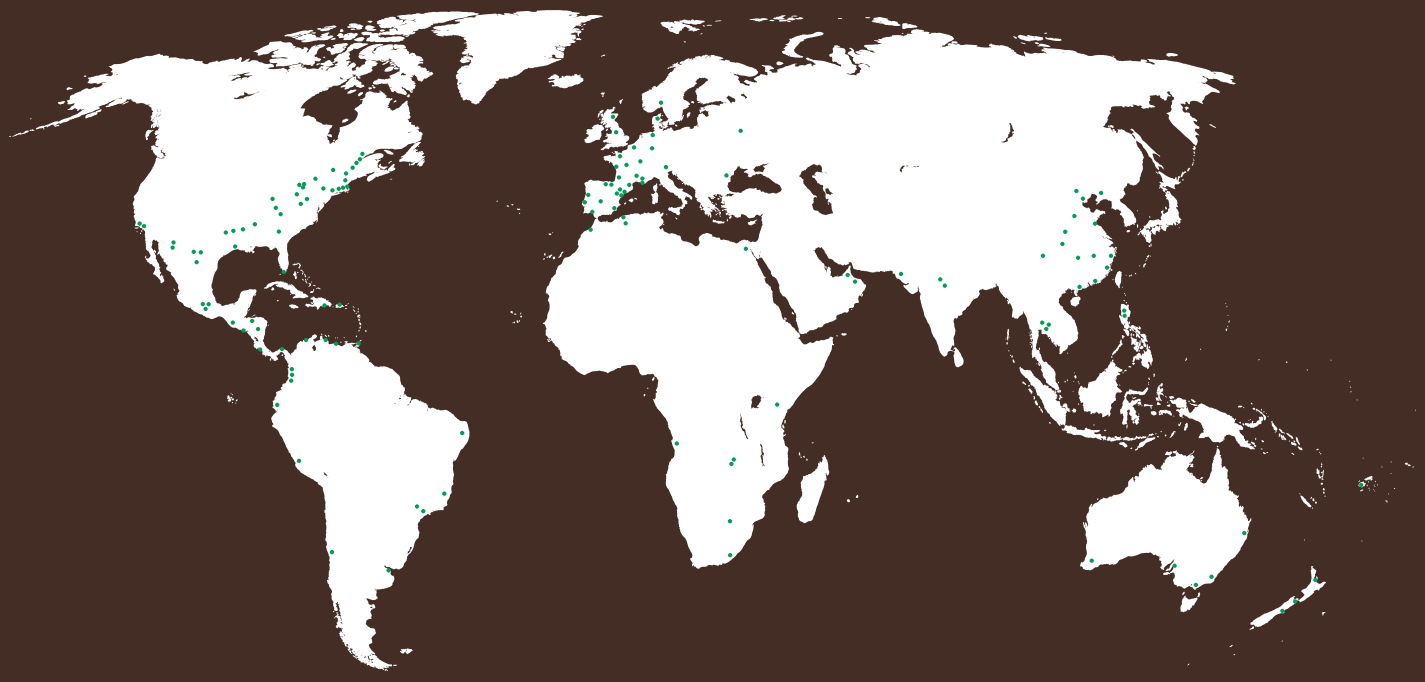
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