

### Portable Power Cables

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AmerCable believes the information presented throughout this catalog to be reliable and current. All information is subject to change without notice. The information listed is approximate, and is presented only as a guide for product selection. We make no claims or warranties for the suitability of any product for any particular application.



# Harsh operating environments require cables engineered for longer service life

No matter what type of environment you operate in, AmerCable has a cable productivity solution for you. Our innovatively engineered and manufactured **Industrial Cable Family** is designed for your toughest conditions. As a leading producer of portable power cables in North America, AmerCable is dedicated to producing:

- cables that last longer in difficult operating environments
- cables designed to help provide greater levels of safety and productivity





### CABLE INNOVATION

- Designing insulating and jacketing materials that are more flexible with greater resistance to abrasion and moisture
- Cable constructions that last longer providing reduced down time for increased productivity
- New product development that addresses environmental, safety and cost reduction issues specific to your application.

**OPERATING EXCELLENCE** 

- The industry leader in on-time delivery. For our current delivery rate, visit our website at www.amercable.com
- Standard lead-time of 8 to 10 weeks
- Urgent response shipment capability of 2 to 4 weeks
- AmerCable is an ISO-9001 certified manufacturer



### HANDS-ON FIELD SUPPORT

Our experienced field application engineers are available for on-site evaluation and solutions. They also conduct education and training sessions that address safety, splicing and cable handling issues.

www.AmerCable.com

### FLEXIBLE POWER CABLE • DLO 2000 VOLTS • 90°C



DIESEL LOCOMOTIVE CABLE • LIMITED SMOKE (SIZES 2/0 AND HIGHER) • EP/CPE • RHH, RHW-2



### **RATINGS & APPROVALS**

- ICEA S-95-658/ NEMA WC-70: Nonshielded Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- UL Standard 44: Thermoset Insulated Wires & Cables, Types RHH, RHW-2. UL VW-1
- UL Standard 1685: Vertical Tray Fire propagation and Smoke Release Test for Electrical and optical Fiber Cables. (UL,ST-1)
- ASTM B-33: Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes
- ASTM B-172: Standard Specification for Rope-Lay-Stranded Copper Conductors having Bunch-Stranded Members, for Electrical Conductors
- MSHA P-184
- RoHS Compliant



### **APPLICATIONSAPPLICATION**

AmerCable's 2000V Diesel Locomotive Cable (DLO) is a single conductor portable power cable suitable for use in applications needing great flexibility, excellent wearability and good flex life. Applications include locomotive and car equipment, motor and generator leads, battery leads, shipyards, telecommunications power, heavy earth moving equipment, renewable energy and other heavy duty flexing applications.

- A two layer composite of flame retardant, oil and sunlight resistant Chlorinated Polyethylene (CPE) outer layer and Ethylene-Propylene rubber (EPR) inner layer. The composite design provides significant diameter reductions compared to designs using full thickness jackets.
- Suitable for continuous operating temperatures of 90°C, wet or dry
- Rated RHH, RHW-2; 2/0 1111 kcmil listed and marked "for CT use"
- UL listed as Sunlight Resistant
- UL listed as Marine Shipboard Cable (4/0 and larger) – Special order only
- Insulation and jacket meet hazardous waste regulations, per Code of Federal Regulations 40 Section 261 (40CFR261) for characteristic lead content
- Flame Resistance: FT-4/IEEE1202 for 2/0 1111 kcmil and UL VW-1
- Meets smoke release and other requirements of Vertical Cable Tray Test UL 1685 and is marked "ST-1" for 2/0 – 1111 kcmil
- Extremely flexible stranding used for increased flexibility and ease of installation



### 37-119 • SINGLE CONDUCTOR PORTABLE POWER CABLE • DLO

Part No. 37-119-	Size AWG/ kcmil	Minimum Wires per Conductor	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight Ibs. per 1,000 ft.	*Ampacity 90°C
201	14	19	0.045	0.015	0.214	31	35
202	12	19	0.045	0.015	0.233	41	40
203	10	37	0.045	0.015	0.257	58	55
204	8	168	0.055	0.030	0.349	77	80
205	6	61	0.055	0.030	0.365	124	105
207	4	133	0.055	0.030	0.460	203	140
209	2	259	0.055	0.030	0.534	265	190
210	1	224	0.065	0.045	0.623	415	220
211	1/0	266	0.065	0.045	0.668	489	260
212	2/0	323	0.065	0.045	0.689	562	300
213	3/0	418	0.065	0.045	0.771	757	350
214	4/0	532	0.065	0.045	0.822	894	405
215	262	646	0.075	0.065	0.957	1091	467
216	313	777	0.075	0.065	1.008	1245	522
217	373	925	0.075	0.065	1.074	1486	591
218	444	1110	0.075	0.065	1.143	1749	652
219	535	1332	0.090	0.065	1.257	2099	728
220	646	1591	0.090	0.065	1.361	2464	815
221	777	1924	0.090	0.065	1.439	2899	904
222	929	2318	0.090	0.065	1.685	3501	1005
223	1111	2745	0.130	0.065	1.850	4166	1119

<sup>\*</sup> Ampacity – Calculated with at 90°C conductor temperature and 30°C ambient air, per 2008 NEC, Table 310.17

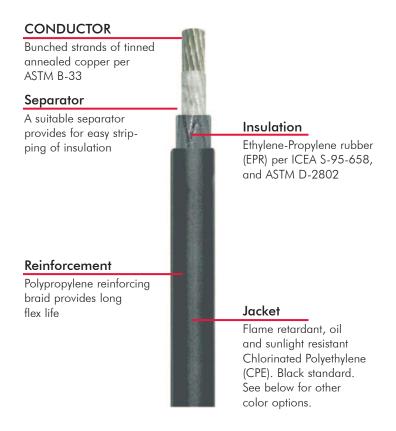
<sup>•</sup> Cable diameters are subject to +/-5% manufacturing tolerance





### PORTABLE POWER CABLE YPE W • SINGLE CONDUCTOR 600-2000 VOLTS

MOTOR LEAD CABLE • 90°C



### **RATINGS & APPROVALS**

- UL listed as Type W
- ASTM B-33: Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes
- ASTM D-2802: Standard Specification for Ozone-Resistant Ethylene-Alkene Polymer Insulation for Wire and Cable
- ICEA S-95-658/ NEMA WC-70: Nonshielded Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- MSHA P-184 for 6 AWG and above

### Type W CPE jackets are available in highly visible colors without sacrificing performance





### **APPLICATION**

AmerCable's 600-2000 Volt single-conductor motor-lead cables are recommended for installations where long flex life, great flexibility and wearability are desired. Applications include heavy duty or temporary power supply service, AC or DC, to motor or generators, portable and stationary heavy duty equipment, cranes, conveyors and other mobile equipment. They may be installed in air, in ducts, immersed in water or directly buried in the earth. However, they are not UL Type USE. For cables requiring reduced flame propagation, refer to the factory.

- Suitable for continuous operating temperatures of 90°C
- Suitable for use in festoons, suspended loops and power tracks
- Suitable for use on Payout and Retractable reels (P&R)
- Heavy duty jacket offers excellent protection against abrasion, impact, heat, oil, flame, ozone, alkali and acids.
- Extremely flexible stranding used for increased flexibility and ease of installation
- Dual Rated 600V and 2kV
- Suitable for extra hard usage which enhances performance



### 37-401 • SINGLE CONDUCTOR PORTABLE POWER CABLE • TYPE W

Part No. 37-401-	Size AWG/ kcmil	Minimum Wires per Conductor	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight Ibs. per 1,000 ft.	*Ampacity 90°C
008	8	133	0.060	0.075	0.460	136	80
006	6	133	0.060	0.095	0.550	202	105
004	4	133	0.060	0.095	0.600	268	140
003	3	133	0.060	0.095	0.620	318	165
002	2	259	0.060	0.095	0.690	375	190
001	1	259	0.080	0.095	0.760	479	220
010	1/0	266	0.080	0.095	0.810	555	260
020	2/0	323	0.080	0.095	0.832	675	300
030	3/0	418	0.080	0.095	0.900	794	350
040	4/0	532	0.080	0.095	0.960	959	405
250	250	627	0.095	0.095	1.070	1268	455
300	300	741	0.095	0.095	1.100	1315	505
350	350	888	0.095	0.095	1.160	1517	570
400	400	999	0.095	0.095	1.190	1681	615
500	500	1221	0.095	0.095	1.310	2039	700

<sup>\*</sup> Ampacity is calculated with a 90°C conductor temperature and 30°C ambient air, per 2008 NEC, Table 400.5(B)

<sup>•</sup> Cable diameters and weights are subject to +/- 5% manufacturing tolerance





### MAGNET CRANE CABLE **TYPE W • TWO CONDUCTOR** 600-2000 VOLTS

MAGNET CRANE CABLE • 90°C





Bunched strands of tinned annealed copper per ASTM B-33. Stranding other than those listed in the table are available upon special order.

### Insulation

Ethylene-Propylene rubber (EPR) per ICEA S-95-658 and ASTM D-2802. Insulation material color coded through AWG size #2. Larger sizes are coded with fabric tape wraps. One black, one white.



### Separator

A suitable separator provides for easy stripping of insulation

### **Fillers**

Fibrous filler provides great impact resistance and flexibility. Rubber fillers are available upon special order.

### Jacket

Flame retardant, oil and sunlight resistant Chlorinated Polyethylene (CPE). Black standard. See below for other color options.

### **RATINGS & APPROVALS**

- UL listed as Type W
- UL listed as Type TC
- ASTM B-33: Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes
- ASTM D-2802: Standard Specification for Ozone-Resistant Ethylene-Alkene Polymer Insulation for Wire and Cable
- ICEA S-95-658/ NEMA WC-70: Nonshielded Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- MSHA P-184
- Flame Resistance: FT-4

Type W CPE jackets are available in highly visible colors without sacrificing performance





### **APPLICATION**

AmerCable's 600-2000 Volt two conductor cables are recommended for installations where long flex life, great flexibility and wearability are desired. Applications include heavy duty or temporary power supply service, AC or DC, to motor or generators, portable and stationary heavy duty equipment, cranes, conveyors and other mobile equipment. They are especially recommended to supply power for magnet crane applications. They may be installed in air, in ducts, immersed in water or directly buried in the earth. However, they are not UL Type USE. For cables requiring reduced flame propagation, refer to the factory.

- Suitable for continuous operating temperatures of 90°C
- Suitable for use in festoons, suspended loops and power tracks
- Suitable for use on Payout and Retractable reels (P&R)
- Heavy duty jacket offers excellent protection against abrasion, impact, heat, oil, flame, ozone, alkali and acids.
- Extremely flexible stranding used for increased flexibility and ease of installation
- Dual Rated 600V and 2kV
- Suitable for extra hard usage which enhances performance



### 37-430 • TWO CONDUCTOR MAGNET CRANE • TYPE W • ROUND

Part No. 37-430-	Size AWG/ kcmil	Minimum Wires per Conductor	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight Ibs. per 1,000 ft.	*Ampacity 90°C
008	8	133	0.060	0.109	0.830	369	74
006	6	133	0.060	0.109	0.960	518	99
004	4	133	0.060	0.109	1.080	715	130
002	2	259	0.060	0.141	1.280	1045	174
010	1/0	266	0.080	0.156	1.560	1464	234
020	2/0	342	0.080	0.156	1.660	1788	271
040	4/0	532	0.080	0.172	1.973	2530	361
250	250	627	0.095	0.165	2.100	2664	402
350	350	888	0.095	0.176	2.360	3854	495
500	500	1221	0.095	0.214	2.700	5191	613

<sup>\*</sup> Ampacity is calculated with a 90°C conductor temperature and 30°C ambient air, per 2008 NEC, Table 400.5(B)

- $\bullet$  Cable diameters and weights are subject to +/- 5% manufacturing tolerance
- A full line of UL listed Type G cables with grounding conductors is available. Consult factory.



Photo provided by NASCOOP



### PORTABLE POWER CABLE TYPE W • THREE CONDUCTOR 600-2000 VOLTS

AmerCable

QUALIFIED FOR P&R REELING SERVICE • 90°C

### **CONDUCTORS**

Bunched strands of tinned annealed copper per ASTM B33. Stranding other than those listed in the table are available upon special order.

### **FILLERS**

Fibrous filler provides great impact resistance and flexibility. Rubber fillers are available upon special order.

### **JACKET**

Flame retardant, oil and sunlight resistant Chlorinated Polyethylene (CPE). Reinforced, two layer jacket construction is used on AWG size 1/0 and larger cables. Black standard. Consult factory for colored jackets.

### **SEPARATOR**

A suitable separator provides for easy stripping of insulation

### **INSULATION**

Ethylene-Propylene rubber (EPR) per ICEA S-95-658, also meeting ASTM D-2802. Insulation material color coded through AWG size #2. Larger sizes are coded with fabric tape wraps. One black, one white, one green.

### REINFORCEMENT

Polypropylene reinforcing braid provides long flex life

### **RATINGS & APPROVALS**

- UL listed as Type W
- UL listed as Type TC-ER
- ASTM B-33: Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes
- ASTM D-2802: Standard Specification for Ozone-Resistant Ethylene-Alkene Polymer Insulation for Wire and Cable
- ICEA S-95-658/ NEMA WC-70: Nonshielded Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- MSHA P-184
- Flame Resistance: FT-4

Type W CPE jackets are available in highly visible colors without sacrificing performance



### **APPLICATION**

AmerCable's 600-2000 Volt three conductor cables are recommended for installations where long flex life, great flexibility and wearability are desired. Applications include heavy duty or temporary power supply service, AC or DC, to motor or generators, portable and stationary heavy duty equipment, cranes, conveyors and other mobile equipment. They are also recommended for use on Payout and Retractable reels, festoons, suspended loops and power tracks. They may be installed in air, in ducts, immersed in water or directly buried in the earth. However, they are not UL Type USE. For cables requiring reduced flame propagation, refer to the factory.

- Suitable for continuous operating temperatures of 90°C
- Suitable for use in festoons, suspended loops and power tracks
- Suitable for use on Payout and Retractable reels (P&R)
- Heavy duty jacket offers excellent protection against abrasion, impact, heat, oil, flame, ozone, alkali and acids.
- Extremely flexible stranding used for increased flexibility and ease of installation
- Dual Rated 600V and 2kV
- Suitable for extra hard usage which enhances performance
- Meets crush and impact requirements for Type MC cable.



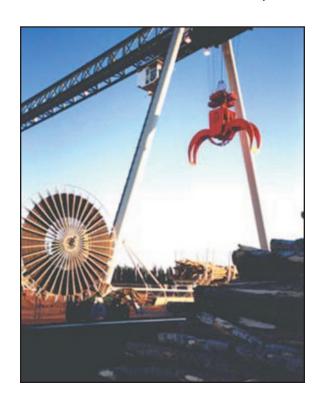


### 37-431 • TYPE W - ROUND • 600-2000 VOLTS

Part No. 37-431-	Size AWG/ kcmil	Minimum Wires per Conductor	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight Ibs. per 1,000 ft.	*Ampacity 90°C
800	8	133	0.060	0.141	0.930	513	65
006	6	133	0.060	0.141	1.025	643	87
004	4	133	0.060	0.125	1.200	962	114
002	2	259	0.060	0.141	1.340	1295	152
010	1/0	266	0.080	0.156	1.665	1967	205
020	2/0	323	0.080	0.156	1.75	2260	237
030	3/0	418	0.080	0.156	1.900	2863	274
040	4/0	532	0.080	0.172	2.050	3381	316
250	250	627	0.095	0.250	2.395	4375	352
350	350	888	0.095	0.259	2.684	5562	433
500	500	1221	0.095	0.290	3.030	7408	536

<sup>\*</sup> Ampacity is calculated with a  $90^{\circ}\text{C}$  conductor temperature and  $30^{\circ}\text{C}$  ambient air, per 2008 NEC, Table 400.5(B)

- Cable diameters and weights are subject to +/- 5% manufacturing tolerance
- A full line of UL listed Type G cables with grounding conductors is available. Consult factory.





## PORTABLE POWER CABLE TYPE W • FOUR CONDUCTOR 600-2000 VOLTS

SUITABLE FOR P&R REELING SERVICE • 90°C



Bunched strands of tinned annealed copper per ASTM B-33. Strandings other than those listed in the table are available upon special order.

### **FILLERS**

Fibrous filler provides great impact resistance and flexibility. Rubber fillers are available upon special order.

### **JACKET**

Flame retardant, oil and sunlight resistant Chlorinated Polyethylene (CPE). Black standard. Consult factory for colored jackets.



### **SEPARATOR**

A suitable separator provides for easy stripping of insulation

### **INSULATION**

Ethylene-Propylene rubber (EPR) per ICEA S-95-658, also meeting ASTM D-2802. Insulation material color coded through AWG size #2. Larger sizes are coded with fabric tape wraps. One black, one red, one white, one green.

### REINFORCEMENT

Polypropylene reinforcing braid provides long flex life

### **RATINGS & APPROVALS**

- UL listed as Type W
- UL listed as Type TC-ER
- ASTM B-33: Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes
- ASTM D-2802: Standard Specification for Ozone-Resistant Ethylene-Alkene Polymer Insulation for Wire and Cable
- ICEA S-95-658/ NEMA WC-70/: Nonshielded Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- MSHA P-184
- Flame Resistance: FT-4

Type W CPE jackets are available in highly visible colors without sacrificing performance





### **APPLICATION**

AmerCable's 600-2000 Volt four conductor cables are recommended for installations where long flex life, great flexibility and wearability are desired. Applications include heavy duty or temporary power supply service, AC or DC, to motor or generators, portable and stationary heavy duty equipment, cranes, conveyors and other mobile equipment. They are also recommended for use on Payout and Retractable reels, festoons, suspended loops and power tracks. They may be installed in air, in ducts, immersed in water or directly buried in the earth. However, they are not UL Type USE. For cables requiring reduced flame propagation, refer to the factory.

- Suitable for continuous operating temperatures of 90°C
- Suitable for use in festoons, suspended loops and power tracks
- Suitable for use on Payout and Retractable reels (P&R)
- Heavy duty jacket offers excellent protection against abrasion, impact, heat, oil, flame, ozone, alkali and acids
- Extremely flexible stranding used for increased flexibility and ease of installation
- Dual Rated 600V and 2kV
- Suitable for extra hard usage which enhances performance
- Meets crush and impact requirements for Type MC cable.





### 37-432 • FOUR CONDUCTOR PORTABLE POWER CABLE • TYPE W • ROUND

Part No. 37-432-	Size AWG/ kcmil	Minimum Wires per Conductor	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight Ibs. per 1,000 ft.	*Ampacity 90°C
008	8	133	0.060	0.141	1.020	601	65
006	6	133	0.060	0.141	1.135	801	87
004	4	133	0.060	0.125	1.240	1138	114
002	2	259	0.060	0.125	1.490	1663	152
010	1/0	266	0.080	0.156	1.810	2471	205
020	2/0	323	0.080	0.156	1.940	2975	237
040	4/0	532	0.080	0.156	2.260	4376	316
250	250	627	0.095	0.270	2.665	5725	352
350	350	888	0.095	0.290	3.000	7428	433
500	500	1221	0.095	0.310	3.425	10010	536

- \* Ampacity is calculated with a 90°C conductor temperature and 30°C ambient air, per 2008 NEC, Table 400.5(B)
- Cable diameters and weights are subject to +/- 5% manufacturing tolerance
- For more than four conductors, consult factory
- A full line of UL listed Type G cables with grounding conductors is available. Consult factory.





# PORTABLE POWER CABLES

### ENGINEERED FOR LONGER SERVICE LIFE

**AmerCable** manufactures high quality jacketed electrical cables for a wide variety of specialized industrial and utility applications.



AmerCable is an ISO 9001 certified cable manufacturer that combines leading-edge technology, proven manufacturing techniques, and high quality service to deliver the finest industrial and utility cable products available.

AmerCable serves a worldwide customer base from our manufacturing facility in El Dorado, Arkansas. Our professional field engineering and sales force work directly with customers, or in partnership with our network of independent distributors, to identify and fulfill your specific cable requirements















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