

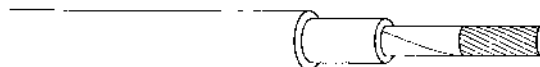


# Section 11 Mining Cable

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2 kV

CPE jacket  
90°C,  
2 kV UL  
UL Listed

**SPECIFICATIONS**

1. CONDUCTOR: Extra flexible, tinned, annealed, stranded copper, suitable separator may be used between conductor and insulation. Conductor sizes per AAR 589
2. INSULATION: Ethylene Propylene Rubber (EPR) meeting requirements of ICEA S-95-658 (NEMA WC70)
3. OVERALL JACKET: CPE
4. STANDARDS: UL Listed RHH/RHW per UL 44 requirements
5. AMPACITY: Based on a single conductor in free air per NEC Table 310.17, an ambient temperature of 30°C and a conductor temperature of 90°C
6. TEMPERATURE: 90°C
7. VOLTAGE: 2 kV UL

**APPLICATIONS**

Portable or fixed power cable for use in drilling rigs, diesel-electric locomotives, railroad and transit car wiring, where reliability is a prime concern. Also suitable for electrically-driven earth-moving equipment, water-heater leads, power and control jumpers, case wiring and motor leads.

Anixter No.	Conductor Size Circular Mils	Approximate Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5N-1401-CPE	4,105	14	19	0.045	0.015	0.210	34	35
5N-1201-CPE	6,088	12	19	0.045	0.015	0.240	45	40
5N-1001-CPE	10,910	10	27	0.045	0.015	0.260	60	55
5N-0801-CPE	14,950	8	37	0.055	0.030	0.326	86	80
5N-0601-CPE	24,640	6	61	0.055	0.030	0.365	124	105
5N-0401-CPE	42,420	4	105	0.055	0.030	0.460	198	140
5N-0201-CPE	60,600	2	147	0.055	0.030	0.498	261	190
5N-0101-CPE	90,900	1	224	0.065	0.045	0.618	400	220
5N-1011-CPE	111,100	1/0	266	0.065	0.045	0.664	468	260
5N-2021-CPE	131,300	2/0	323	0.065	0.045	0.704	561	300
5N-3031-CPE	181,800	3/0	418	0.065	0.045	0.789	725	350
5N-4041-CPE	222,200	4/0	532	0.065	0.045	0.839	888	405
5N-2621-CPE	262,600	262.6	646	0.075	0.065	0.973	1,048	467
5N-3131-CPE	313,100	313.1	777	0.075	0.065	1.029	1,227	522
5N-3731-CPE	373,700	373.7	925	0.075	0.065	1.094	1,436	591
5N-4441-CPE	444,400	444.4	1,110	0.075	0.065	1.169	1,691	652
5N-5351-CPE	535,300	535.3	1,332	0.090	0.065	1.295	2,034	728
5N-6461-CPE	646,400	646.4	1,591	0.090	0.065	1.368	2,395	815
5N-7771-CPE	777,700	777.7	1,924	0.090	0.065	1.488	3,050	904

Single conductor also available in Type W.

Diameters and weights may vary among manufacturers.

## Mining Cable

## Drill Cord

## Drill Cord

EPR insulation  
 Thermoset jacket  
 90°C, 600 V  
 MSHA

**SPECIFICATIONS**

1. CONDUCTOR: Flexible, annealed, uncoated, copper. A separator tape is applied over the conductor
2. INSULATION: Synthetic rubber per the requirements of ICEA S-75-381 (NEMA WC58)
3. ASSEMBLY: Cabled with fillers where necessary to make round
4. OVERALL JACKET: Cotton yarn reinforced thermoset jacket
5. AMPACITY: Based on an ambient temperature of 30°C per ICEA S-75-381, see ICEA correction factors if used with one or more layers wound on a reel
6. TEMPERATURE: 90°C
7. VOLTAGE: 600 V

**APPLICATIONS**

For use on drills and other mining equipment. For use on circuits not exceeding 600 volts at a maximum conductor temperature of 90°C.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5AA-1403	14	41	3	0.045	0.67	263	15
5AA-1404	14	41	4	0.045	0.71	303	12
5AA-1405	14	41	5	0.045	0.78	375	12
5AA-1205	12	65	5	0.045	0.83	450	16
5AA-1206	12	65	6	0.045	0.89	515	16
5AA-1005	10	104	5	0.045	0.90	535	20

See the Conductor Color Code at the end of this section.  
 Diameters and weights may vary among manufacturers.

## Type G CV Cured

## Type G CV Cured

EPR insulation  
 Thermoset jacket  
 90°C, 2 kV

**SPECIFICATIONS**

1. CONDUCTOR: Rope-stranded, uncoated copper
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. GROUND CONDUCTORS: Four flexible stranded copper wires
4. ASSEMBLY: Conductors and ground wires cabled with fillers as necessary
5. OVERALL JACKET: CV cured thermoset compound
6. STANDARDS: Meets the requirements of ICEA S-75-381 (NEMA WC58), accepted by MSHA and marked with the manufacturer's P number, UL Listed Type G per UL Subject 1650
7. AMPACITY: Based on an ambient temperature of 30°C per NEC Table 400.5(B), four conductors carrying current
8. TEMPERATURE: 90°C
9. VOLTAGE: 2 kV

**APPLICATIONS**

For use as flexible power lead with any portable or mobile equipment such as pumps, welders, mining machines and mine conveyor equipment.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5E-0804C	8	133	4	0.060	12	1.05	705	54
5E-0604C	6	65	4	0.060	12	1.13	916	70
5E-0404C	4	133	4	0.060	10	1.27	1,311	91
5E-0204C	2	133	4	0.060	9	1.48	1,899	122
5E-1014C	1/0	259	4	0.080	7	1.79	2,882	164
5E-2024C	2/0	259	4	0.080	6	1.93	3,435	190
5E-4044C	4/0	259	4	0.080	4	2.26	5,058	255

See the Conductor Color Code at the end of this section.

Lead cured available upon request.

Diameters and weights may vary among manufacturers.

## Mining Cable

## Type G-GC CV Cured

## Type G-GC CV Cured

EPR insulation  
Thermoset jacket  
90°C, 2 kV

**SPECIFICATIONS**

1. CONDUCTOR: Rope-stranded, uncoated copper per ASTM B-172
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. COLOR CODE: Black, white and red
4. GROUND AND GROUND CHECK: Insulated, stranded copper
5. ASSEMBLY: Three insulated conductors, two ground conductors and one yellow ground check conductor, cabled with fillers
6. OVERALL JACKET: CV cured thermoset compound
7. STANDARDS: Meets the requirements of ICEA S-75-381 (NEMA WC58), accepted by MSHA and marked with the manufacturer's P number, UL Listed Type G-GC per UL Subject 1650 requirements
8. AMPACITY: Based on an ambient temperature of 40°C and conductor temperature of 90°C per ICEA S-75-381 table. Additional ampacities available in 2008 NEC Table 400.5(B)
9. TEMPERATURE: -40°C to 90°C
10. VOLTAGE: 2 kV

**APPLICATIONS**

For use as flexible power lead with portable or mobile equipment such as pumps, welders, mining machines and mine conveyor equipment.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Ground Wire Size Number	Ground Wire Size AWG	Ground Check Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5F-0803C	8	133	3	0.060	2	10	10	0.97	682	59
5F-0603C	6	133	3	0.060	2	10	10	1.05	830	79
5F-0403C	4	133	3	0.060	2	8	10	1.19	1,128	104
5F-0203C	2	133	3	0.060	2	7	10	1.33	1,451	138
5F-0103C	1	133	3	0.080	2	6	8	1.49	1,856	161
5F-1013C	1/0	259	3	0.080	2	5	8	1.62	2,270	186
5F-2023C	2/0	259	3	0.080	2	4	8	1.75	3,020	215
5F-3033C	3/0	259	3	0.080	2	3	8	1.86	3,660	249
5F-4043C	4/0	259	3	0.080	2	2	8	1.97	4,147	287
5F-2503C	250	427	3	0.095	2	2	8	2.39	6,060	320
5F-3503C	350	427	3	0.095	2	1/0	8	2.68	7,058	394
5F-5003C	500	427	3	0.095	2	2/0	8	3.03	8,900	487

See the Conductor Color Code at the end of this section.

Lead cured available upon request (5F-XXXX).

Diameters, ground check size and weights may vary among manufacturers.

## Type G-GC Lead Cured

## Type G-GC Lead Cured

Heavy duty  
EPR insulation  
Thermoset CPE jacket  
90°C, 2 kV

**SPECIFICATIONS**

1. CONDUCTOR: Rope-stranded, tinned copper per ASTM B172
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-75-381 (NEMA WC58)
3. GROUND AND GROUND CHECK: Stranded, tinned copper
4. ASSEMBLY: Three insulated conductors, two ground conductors and one yellow ground check conductor, cabled with fillers
5. OVERALL JACKET: Lead cured thermoset compound
6. STANDARDS: Meets the requirements of ICEA S-75-381, accepted by MSHA and marked with the manufacturer's P number, CSA C22.2 No. 96 certified
7. AMPACITY: Based on an ambient temperature of 40°C and conductor temperature of 90°C per ICEA S-75-381 table. Additional ampacities available in 2008 NEC Table 400.5 (B).
8. TEMPERATURE: -50°C to 90°C
9. VOLTAGE: 2 kV

**APPLICATIONS**

For use as flexible power lead with portable or mobile equipment such as pumps, welders, mining machines and mine conveyor equipment.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Ground Wire Size AWG	Ground Check Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5F-0803	8	133	3	0.060	10	10	0.97	597	59
5F-0603	6	133	3	0.060	10	10	1.05	764	79
5F-0403	4	259	3	0.060	8	10	1.19	1,070	104
5F-0203	2	259	3	0.060	7	10	1.34	1,533	138
5F-0103	1	259	3	0.080	6	8	1.51	1,865	161
5F-1013	1/0	259	3	0.080	5	8	1.65	2,315	186
5F-2023	2/0	259	3	0.080	4	8	1.75	2,750	215
5F-3033	3/0	259	3	0.080	3	8	1.89	3,330	249
5F-4043	4/0	259	3	0.080	2	8	2.04	4,095	287

See the Conductor Color Code at the end of this section.

CV cured available see 5F-XXXXC).

Diameters, ground check size and weights may vary among manufacturers.

## Mining Cable

## Type W CV Cured

## Type W CV Cured

EPR insulation  
Thermoset jacket  
90°C, 2 kV

**SPECIFICATIONS**

1. CONDUCTOR: Rope-stranded copper
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. ASSEMBLY: The specified number of conductors cabled with fillers, over-wrapped with reinforced binder, separator where applicable
4. OVERALL JACKET: CV cured thermoset compound
5. STANDARDS: Meets the requirements of ICEA S-75-381 (NEMA WC58), accepted by MSHA and marked with the manufacturer's P number, Listed Type W per UL Subject 1650
6. AMPACITY: Based on an ambient temperature of 40°C and conductor temperature of 90°C per ICEA S-75-381 table. Additional ampacities available in 2008 NEC Table 400.5 (B)
7. TEMPERATURE: 90°C
8. VOLTAGE: 2 kV

**APPLICATIONS**

For use in mining machines, loaders and welders; as motor leads; in temporary power installations; in utility maintenance; and in other mobile equipment.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5B-0801C	8	133	1	0.060	0.440	130	83
5B-0601C	6	133	1	0.060	0.510	175	109
5B-0401C	4	259	1	0.060	0.570	230	145
5B-0201C	2	259	1	0.060	0.660	375	192
5B-0101C	1	259	1	0.080	0.74	455	223
5B-1011C	1/0	259	1	0.080	0.77	500	258
5B-2021C	2/0	259	1	0.080	0.82	600	298
5B-4041C	4/0	259	1	0.080	0.93	895	400
5B-2501C	250	427	1	0.095	1.03	1,101	445
5B-3501C	350	427	1	0.095	1.15	410	552
5B-5001C	500	427	1	0.095	1.31	940	695
5B-0802C	8	133	2	0.060	0.810	400	72
5B-0602C	6	133	2	0.060	0.930	580	95
5B-0402C	4	259	2	0.060	1.080	770	127
5B-0202C	2	259	2	0.060	1.270	150	167
5B-0803C	8	133	3	0.060	1.005	564	59
5B-0603C	6	133	3	0.060	1.010	740	79
5B-0403C	4	259	3	0.060	1.170	1,050	104
5B-0203C	2	259	3	0.060	1.340	390	139
5B-0103C	1	133	3	0.080	1.51	800	161
5B-1013C	1/0	259	3	0.080	1.65	2,320	186
5B-2023C	2/0	259	3	0.080	1.75	2,590	215
5B-4043C	4/0	259	3	0.080	2.04	715	287
5B-5003C	500	427	3	0.095	3.03	8,080	487
5B-0804C	8	133	4	0.060	1.025	674	54
5B-0604C	6	133	4	0.060	1.100	895	72
5B-0404C	4	259	4	0.060	1.270	300	93
5B-0204C	2	259	4	0.060	1.48	805	122
5B-0104C	1	259	4	0.080	1.68	260	143

See the Conductor Color Code at the end of this section.  
Lead cured available upon request (5B-XXXX).  
Diameters and weights may vary among manufacturers.



## Type W CV Cured

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5B-1014C	1/0	259	4	0.080	1.79	605	165
5B-2024C	2/0	259	4	0.080	1.93	380	192
5B-3034C	3/0	259	4	0.080	2.07	850	221
5B-4044C	4/0	259	4	0.080	2.26	4,505	255
5B-0805C	8	133	5	0.060	1.025	674	54
5B-0605C	6	133	5	0.060	1.100	895	72
5B-0405C	4	259	5	0.060	1.270	300	93
5B-0205C	2	259	5	0.060	1.48	805	122
5B-1015C	1/0	259	5	0.080	1.79	605	165

See the Conductor Color Code at the end of this section.

Lead cured available upon request (5B-XXXX).

Diameters and weights may vary among manufacturers.

## Mining Cable

## Type W Lead Cured

## Type W Lead Cured

Heavy duty

EPR insulation

Thermoset jacket

90°C, 600/2,000 V

**SPECIFICATIONS**

1. CONDUCTOR: Rope-stranded, tinned copper
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. ASSEMBLY: The specified number of conductors cabled with fillers, over-wrapped with reinforced binder, separator where applicable
4. OVERALL JACKET: Lead cured thermoset compound
5. STANDARDS: Meets the requirements of ICEA S-75-381 (NEMA WC58), accepted by MSHA and marked with the manufacturer's P number
6. AMPACITY: Based on an ambient temperature of 40°C and conductor temperature of 90°C per ICEA S-75-381, Table H-1. Additional ampacities available in NEC Table 400.5 (B)
7. TEMPERATURE: 90°C
8. VOLTAGE: 600/2,000 V

**APPLICATIONS**

For use in mining machines, loaders and welders; as motor leads; in temporary power installations; in utility maintenance; and in other mobile equipment.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5B-0801	8	133	1	0.060	0.440	130	83
5B-0802	8	133	2	0.060	0.810	400	72
5B-0803	8	133	3	0.060	1.005	564	59
5B-0804	8	133	4	0.060	1.025	674	54
5B-0601	6	133	1	0.060	0.510	175	109
5B-0602	6	133	2	0.060	0.930	580	95
5B-0603	6	133	3	0.060	1.010	740	79
5B-0604	6	133	4	0.060	1.100	895	72
5B-0401	4	259	1	0.060	0.570	230	145
5B-0402	4	259	2	0.060	1.080	770	127
5B-0403	4	259	3	0.060	1.170	1,050	104
5B-0404	4	259	4	0.060	1.270	1,300	93
5B-0301	3	259	1	0.060	0.630	310	167
5B-0303	3	259	3	0.060	1.240	1,195	120
5B-0304	3	259	4	0.060	1.340	1,465	106
5B-0201	2	259	1	0.060	0.660	375	192
5B-0202	2	259	2	0.060	1.270	1,150	167
5B-0203	2	259	3	0.060	1.340	1,390	139
5B-0204	2	259	4	0.060	1.48	1,805	122
5B-0101	1	259	1	0.080	0.74	455	223
5B-0102	1	259	2	0.080	1.44	1,500	191
5B-0103	1	259	3	0.080	1.51	1,775	161
5B-0104	1	259	4	0.080	1.68	2,260	143
5B-1011	1/0	259	1	0.080	0.77	500	258
5B-1012	1/0	259	2	0.080	1.52	1,700	217
5B-1013	1/0	259	3	0.080	1.65	2,320	186
5B-1014	1/0	259	4	0.080	1.79	2,605	165
5B-2021	2/0	259	1	0.080	0.82	600	298
5B-2022	2/0	259	2	0.080	1.65	2,220	250

See the Conductor Color Code at the end of this section.

CV cured available.

Diameters and weights may vary among manufacturers.

## Type W Lead Cured

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5B-2023	2/0	259	3	0.080	1.75	2,590	215
5B-2024	2/0	259	4	0.080	1.93	3,380	192
5B-3031	3/0	259	1	0.080	0.89	770	345
5B-3033	3/0	259	3	0.080	1.89	2,345	249
5B-3034	3/0	259	4	0.080	2.07	3,850	221
5B-4041	4/0	259	1	0.080	0.93	895	400
5B-4043	4/0	259	3	0.080	2.04	3,715	287
5B-4044	4/0	259	4	0.080	2.26	4,505	255
5B-2501	250	608	1	0.095	1.03	1,101	445
5B-2503	250	608	3	0.095	2.39	4,050	320
5B-3501	350	851	1	0.095	1.15	1,410	552
5B-3503	350	851	3	0.095	2.68	5,300	394
5B-5001	500	1,221	1	0.095	1.31	1,940	695
5B-5003	500	1,221	3	0.095	3.03	8,080	487

See the Conductor Color Code at the end of this section.

CV cured available.

Diameters and weights may vary among manufacturers.

## Mining Cable

## MPF-GC 5 kV, 8 kV or 15 kV

## MPF-GC 5 kV, 8 kV or 15 kV

Mine power feeder  
 EPR insulation  
 Thermoset jacket  
 90°C shielded

**SPECIFICATIONS**

1. CONDUCTOR: Class B stranded bare copper, an extruded semi-conducting compound is applied over the conductor
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-75-381 (NEMA WC58)
3. SHIELD: An extruded semi-conducting compound is applied over the insulation, a flat copper tape is helically applied
4. COLOR CODE: Either printing or marker tapes applied under the copper tape, (black, white and red)
5. ASSEMBLY: Insulated conductors, two tinned Class B stranded uninsulated ground wires, yellow insulated ground check wire and fillers are assembled with an overall polyester tape
6. OVERALL JACKET: Thermoset compound per ICEA S-75-381
7. STANDARDS: Meets the requirements of ICEA S-75-381, accepted by MSHA and marked with the manufacturer's P number
8. AMPACITY: Based on an ambient temperature of 40°C per ICEA S-75-381, Table H-1
9. TEMPERATURE: 90°C
10. VOLTAGE: 5 kV, 8 kV and 15 kV

**APPLICATIONS**

Suitable for installation in boreholes, shafts, horizontal runs in underground tunnels, aerial suspension on insulators and other semi-permanent mining and industrial feeder installations.

5 KV

See the Conductor Color Code at the end of this section. Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5P-0605	6	7	0.090	0.110	10	1.30	1,060	93
5P-0405	4	7	0.090	0.110	8	1.41	1,325	122
5P-0205	2	7	0.090	0.110	6	1.47	1,651	159
5P-0105	1	7	0.090	0.110	5	1.54	1,918	184
5P-1005	1/0	19	0.090	0.110	4	1.63	2,244	211
5P-2005	2/0	19	0.090	0.140	3	1.72	2,644	243
5P-3005	3/0	19	0.090	0.140	2	1.89	3,265	279
5P-4005	4/0	19	0.090	0.140	1	2.01	3,890	321
5P-2505	250	37	0.090	0.140	1/0	2.10	4,474	355
5P-3505	350	37	0.090	0.140	2/0	2.31	5,765	435
5P-5005	500	37	0.090	0.140	4/0	2.59	7,906	536

## MPF-GC 5 kV, 8 kV or 15 kV

## 8 KV

See the Conductor Color Code at the end of this section. Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5P-0608	6	7	0.115	0.110	10	1.41	1,175	93
5P-0408	4	7	0.115	0.110	8	1.52	1,455	122
5P-0208	2	7	0.115	0.110	6	1.58	1,787	159
5P-0108	1	19	0.115	0.110	5	1.66	2,059	184
5P-1008	1/0	19	0.115	0.110	4	1.74	2,378	211
5P-2008	2/0	19	0.115	0.140	3	1.90	2,912	243
5P-3008	3/0	19	0.115	0.140	2	2.00	3,432	265
5P-4008	4/0	19	0.115	0.140	1	2.12	4,056	310
5P-2508	250	37	0.115	0.140	1/0	2.22	4,647	355
5P-3508	350	37	0.115	0.140	2/0	2.43	5,979	435
5P-5008	500	37	0.115	0.140	4/0	2.70	8,150	536

## 15 KV

See the Conductor Color Code at the end of this section. Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5P-0215	2	7	0.175	0.140	6	1.90	2,248	164
5P-0115	1	19	0.175	0.140	5	1.99	2,552	187
5P-1015	1/0	19	0.175	0.140	4	2.07	2,901	215
5P-2015	2/0	19	0.175	0.140	3	2.16	3,341	246
5P-3015	3/0	19	0.175	0.140	2	2.27	3,878	283
5P-4015	4/0	19	0.175	0.140	1	2.39	4,541	325
5P-25015	250	37	0.175	0.140	1/0	2.48	5,145	359
5P-35015	350	37	0.175	0.140	2/0	2.70	6,517	438
5P-50015	500	37	0.175	0.170	4/0	3.08	9,058	536

## Mining Cable

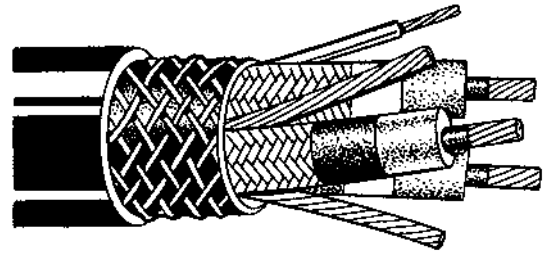
## SHD-GC 2 kV

## SHD-GC 2 kV

EPR insulation  
Thermoset jacket  
90°C

**SPECIFICATIONS**

1. CONDUCTOR: Rope-stranded, annealed, tinned copper
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-75-381 (NEMA WC58)
3. SHIELD: Braided, tinned copper shield, or combination braid shield of tinned copper and nylon
4. GROUND CONDUCTOR: Flexible stranded, coated, annealed copper
5. GROUND CHECK CONDUCTOR: Insulated extra flexible stranded, annealed copper with yellow insulation
6. ASSEMBLY: Three conductors, two ground conductors and one ground check conductor, cabled with fillers as necessary to make round
7. OVERALL JACKET: Thermoset compound
8. STANDARDS: Meets the requirements of ICEA S-75-381, accepted by MSHA and marked with the manufacturer's P number
9. AMPACITY: Based on an ambient temperature of 40°C per ICEA S-75-381, Table H-1
10. TEMPERATURE: 90°C
11. VOLTAGE: 2 kV

**APPLICATIONS**

For use with longwall miners, continuous miners, conveyors, pumps, drills, cutters and loaders. Suitable for high-voltage distribution in mines where portable power is required.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Ground Check Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5S-0602	6	133	0.070	0.155	10	10	1.29	1,465	93
5S-0402	4	133	0.070	0.155	8	10	1.40	1,727	122
5S-0202	2	133	0.070	0.170	6	8	1.59	2,390	159
5S-0102	1	259	0.080	0.190	5	8	1.76	2,450	184
5S-1002	1/0	259	0.080	0.190	4	8	1.86	2,779	211
5S-2002	2/0	259	0.080	0.205	3	8	2.00	3,310	243
5S-3032	3/0	259	0.080	0.205	2	8	2.13	3,950	279
5S-4002	4/0	259	0.080	0.220	1	6	2.31	4,630	321
5S-2502	250	427	0.095	0.220	1/0	6	2.51	5,440	355
5S-3502	350	427	0.095	0.235	2/0	6	2.81	7,030	435
5S-5002	500	427	0.095	0.265	4/0	6	3.19	9,525	536

See the Conductor Color Code at the end of this section.  
Diameters and weights may vary among manufacturers.

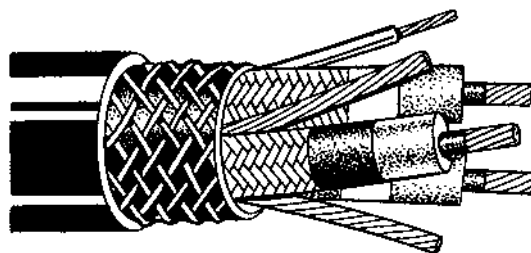
## SHD-GC 5 kV, 8 kV or 15 kV

## SHD-GC 5 kV, 8 kV or 15 kV

EPR insulation  
 Thermoset jacket  
 90°C shielded

**SPECIFICATIONS**

1. CONDUCTOR: Rope-stranded, annealed, tinned copper
2. STRAND SHIELD: Extruded semi-conducting compound or tape over conductor
3. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-75-381 (NEMA WC58)
4. INSULATION SHIELD: Braided, tinned copper shield, or combination braid shield of tinned copper and nylon
5. GROUND CONDUCTOR: Flexible stranded, coated, annealed copper
6. GROUND CHECK CONDUCTOR: Insulated extra flexible 8 AWG annealed copper with yellow insulation
7. ASSEMBLY: Three conductors, two ground conductors and one ground check conductor, cabled with rubber fillers as necessary to make round
8. OVERALL JACKET: Braid-reinforced thermoset compound
9. STANDARDS: Meets the requirements of ICEA S-75-381, accepted by MSHA and marked with the manufacturer's P number
10. AMPACITY: Based on an ambient temperature of 40°C per ICEA S-75-381, Table H-1
11. TEMPERATURE: 90°C
12. VOLTAGE: 5 kV, 8 kV and 15 kV

**APPLICATIONS**

For use on open-pit mining shovels, dredges, cranes, drag lines or other mobile equipment requiring high-voltage cable lines capable of withstanding continuous flexing or reeling in severe operating environments.

**5 KV**

See the Conductor Color Code at the end of this section. Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5S-0605	6	133	3	0.110	0.185	10	1.56	1,590	93
5S-0405	4	133	3	0.110	0.185	8	1.68	1,800	122
5S-0205	2	259	3	0.110	0.205	6	1.87	2,245	159
5S-0105	1	259	3	0.110	0.205	5	1.95	2,570	184
5S-1005	1/0	259	3	0.110	0.220	4	2.08	3,055	211
5S-2005	2/0	259	3	0.110	0.220	3	2.20	3,490	243
5S-3005	3/0	259	3	0.110	0.235	2	2.36	4,234	279
5S-4005	4/0	259	3	0.110	0.235	1	2.50	4,915	321
5S-3505	350	427	3	0.120	0.265	2/0	2.95	6,995	435
5S-5005	500	427	3	0.120	0.280	4/0	3.31	9,800	536

**8 KV**

See the Conductor Color Code at the end of this section. Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5S-0408	4	133	3	0.150	0.205	8	1.94	2,020	122
5S-0208	2	259	3	0.150	0.220	6	2.12	2,477	159
5S-0108	1	259	3	0.150	0.220	5	2.21	2,855	184
5S-1008	1/0	259	3	0.150	0.220	4	2.32	3,255	211
5S-2008	2/0	259	3	0.150	0.235	3	2.46	3,820	243
5S-3008	3/0	259	3	0.150	0.220	2	2.62	4,520	279
5S-4008	4/0	259	3	0.150	0.250	1	2.75	5,202	321
5S-3508	350	427	3	0.150	0.280	2/0	3.20	8,010	435
5S-5008	500	427	3	0.150	0.295	4/0	3.56	10,220	536

Continued on next page >>

# SHD-GC 5 kV, 8 kV or 15 kV

(continued) SHD-GC 5 kV, 8 kV or 15 kV

15 kV

See the Conductor Color Code at the end of this section. Diameters and weights may vary among manufacturers.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5S-0215	2	133	3	0.210	0.235	6	2.41	3,956	164
5S-0115	1	259	3	0.210	0.235	5	2.52	4,464	187
5S-1015	1/0	259	3	0.210	0.250	4	2.64	4,887	215
5S-2015	2/0	259	3	0.210	0.250	3	2.73	5,561	246
5S-3015	3/0	259	3	0.210	0.265	2	2.90	6,242	283
5S-4015	4/0	259	3	0.210	0.265	1	3.05	7,148	325

## Conductor Color Code

### Conductor Color Code

Number of Conductors	Cable Types	Color Identification
2	All	Black, White
3	G or G-GC Round or Flat	Black, White, Red
3	SHD-GC	Black, White, Red
3	W Round and Flat	Flat Black, White, Green
4	G Round	Black, White, Red, Orange
4	W Round	Black, White, Red, Green
5	W Round	Black, White, Red, Green, Orange
Ground Check Conductor	SHD-GC, GGC and MPF-GC	Yellow