

## Portable Power Cable 90°C UL C(UL) MSHA Mining Grade



### SPECIFICATIONS & STANDARDS

CSA C22.2 No. 96-03, ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B 172, ASTM B 33

### CONSTRUCTION:

- Conductors:** Flexible strand tin copper, ASTM B 172 and C22.2 No. 96-03 table 9
- Separator:** Tape separator between conductor and insulation C22.2 No. 96-03 sec 4.3.4 table 4
- Insulation:** Ethylene-propylene rubber (EPR), C22.2 No. 96-03 table 11
- Grounding cond:** Tin copper, C22.2 No. 96-03 sec 5.1.4.3 and 5.1.4.4
- Ground check:** Yellow polypropylene-insulated bare copper conductor, C22.2 No. 96-03 sec 5.1.4
- Assembly:** *Sizes 4/0 and smaller:* Three power, ground check and two polyester (green mylar) taped grounding conductors cabled together; *Sizes 250 MCM and larger:* Three power, ground check and two polyester (green mylar) taped grounding conductors cabled with rubber fillers to make round core; Single faced rubber filled binder tape applied overall
- Reinforcement:** Nylon open braid applied overall
- Jacket:** Black extra heavy duty CPE thermoset compound, C22.2 No. 96-03 sec 5.1.11.2 and 4.3.9.2 table 5
- Color Code:** black, blue, red; C22.2 No. 96-03 table 1

FEATURES	APPLICATION
<ul style="list-style-type: none"> <li>- Excellent flexibility</li> <li>- Highly ozone, sun, weather and flame resistant</li> <li>- Rated and flexible at -40°C</li> <li>- Excellent impact and abrasion resistant</li> <li>- Special construction for reeling and trailing</li> <li>- Oil and heat resistant</li> <li>- Indent printed for easy identification</li> </ul>	<ul style="list-style-type: none"> <li>- Use on AC off track equipment such as miners, shuttle cars, cutting machines loading machines and drills as well as conveyors and pumps</li> <li>- Supply power to open pit strip and deep mines</li> </ul>

### APPROVALS:

- UL:** E207132 – Oil Resistant; 90°C Wet or Dry; Sunlight resistant; Oil Resistant inners
- C(UL):** E207132 - FT1; FT5; -40°C +90°C
- MSHA:** P-7K-268101

### 3 CONDUCTOR

Part Number	Power Conductor Size	Power Conductor Stranding	Size		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight		Ampacity (1) 40°C Ambient Temp.
			Ground	Ground Check			inches	mm	lbs/1000 ft	kgs/km	
	AWG or MCM	No. of Stranding	AWG	AWG	inches	inches	inches	mm	lbs/1000 ft	kgs/km	A
GGC8-3MNG-CAN	8 AWG	133 7x19	10	10	0.060	0.134	0.97	24.6	632	941	59
GGC6-3MNG-CAN	6 AWG	133 7x19	10	10	0.060	0.146	1.05	26.7	752	1119	79
GGC4-3MNG-CAN	4 AWG	259 7x37	8	10	0.060	0.146	1.19	30.2	1130	1682	104
GGC2-3MNG-CAN	2 AWG	259 7x37	7	10	0.060	0.165	1.34	34.0	1532	2280	138
GGC1-3MNG-CAN	1 AWG	259 7x37	6	8	0.080	0.170	1.51	38.4	1940	2901	161
GGC1/0-3MNG-CAN	1/0 AWG	266 19x14	5	8	0.080	0.170	1.65	41.9	2292	3411	186
GGC2/0-3MNG-CAN	2/0 AWG	342 19x18	4	8	0.080	0.190	1.75	44.5	2658	3955	215
GGC3/0-3MNG-CAN	3/0 AWG	418 19x22	2	8	0.080	0.197	1.89	48.0	3300	4910	249
GGC4/0-3MNG-CAN	4/0 AWG	532 19x29	2	8	0.080	0.205	2.04	51.8	4058	6039	287

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

### STANDARD PRINT LEGEND:

TF CABLE (SIZE) TYPE G-GC PORTABLE POWER CABLE 2000V 90C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT5 (-40C) P-7K-268101-MSHA

### SPECIAL FACTORY OPTIONS:

- Jacket:** Other colors available
- MSHA:** P-7K-268077 (Neoprene)
- CSA:** 1523058 (LR 103932) - FT1; FT5; 90°C; (-40°C) (Neoprene)
- Jacket:** TPU Other colors available
- MSHA:** P-07-KA030001 (TPU)