

TYPE G-GC 3/c 600 / 2kV

Three conductor Round portable power cable Mining grade

SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70
ASTM B 172, ASTM B 33

CONSTRUCTION:

- Conductors:** Annealed flexible stranded tin coated copper in accordance with ASTM B 172 and ICEA S-75-381
- Insulation:** Ethylene-propylene rubber (EPR)
- Circuit identification:** Color coding of power conductors shall be black, white, red in accordance with Par. 3.18 of ICEA S-75-381
- Grounding conductors:** Annealed tin coated copper according to Tab. 3-12 of ICEA S-75-381
- Ground check:** Annealed copper according to Tab. 3-12 of ICEA S-75-381; Color of insulation: yellow
- Assembly:** Sizes 4/0 and smaller: Three power, ground check and two polyester (green mylar) taped grounding conductors cabled together; Nylon open braid applied overall
Sizes 250 MCM and larger: Three power, ground check and two polyester (green mylar) taped grounding conductors cabled with cured rubber fillers as required to make an essentially round core; Single faced rubber filled binder tape applied overall
- Separator:** A suitable tape separator between the conductor and insulation
- Jacket:** CPE thermosetting compound, extra heavy duty in accordance with Par. 3.21 of ICEA S-75-381; Optional Neoprene® or TPU jacket available
- Color of jacket:** Black; Other colors available



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

Standard length cable packing: 1000 ft reels; Other forms of packaging available

APPROVALS:

- MSHA:** P-7K-268101 (CPE); P-7K-268077 (Neoprene); P-07-KA030001 (TPU)
- UL:** E207132 – “Oil Resistant”; “75°C – Wet” or “90°C – Wet”; “Sunlight resistance” or “Sun Res”; “Oil Resistant inners” (CPE)
- CUL:** E207132 - “FT1”; “FT5”; “(-40°C)” or “Minus 40°C”; “90°C” (CPE)
- CSA:** 1523058 (LR 103932) - “FT1”; “FT5”; “90°C”; “(-40°C)” (Neoprene)

Neoprene is a registered trademark of DuPont



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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
GGC12-3 Mining	12 AWG	65 11+6x9 49	12	12	0.06	0.094	0.70	17.8	366	544	25
GGC10-3 Mining	10 AWG	7x7	12	12	0.06	0.114	0.80	20.3	538	800	30
GGC8-3 Mining	8 AWG	133 7x19	10	10	0.06	0.134	0.97	24.6	632	941	59
GGC6-3 Mining	6 AWG	133 7x19	10	10	0.06	0.146	1.05	26.7	752	1119	79
GGC4-3 Mining	4 AWG	259 7x37	8	10	0.06	0.146	1.19	30.2	1130	1682	104
GGC2-3 Mining	2 AWG	259 7x37	7	10	0.06	0.165	1.34	34.0	1532	2280	138
GGC1-3 Mining	1 AWG	259 7x37	6	8	0.08	0.170	1.51	38.4	1940	2901	161
GGC1/0-3 Mining	1/0 AWG	266 19x14	5	8	0.08	0.170	1.65	41.9	2292	3411	186
GGC2/0-3 Mining	2/0 AWG	342 19x18	4	8	0.08	0.190	1.75	44.5	2658	3955	215
GGC3/0-3 Mining	3/0 AWG	418 19x22	2	8	0.08	0.197	1.89	48.0	3300	4910	249
GGC4/0-3 Mining	4/0 AWG	532 19x29	2	8	0.08	0.205	2.04	51.8	4058	6039	287
GGC250-3 Mining	250 MCM	627 19x33	2	8	0.095	0.280	2.39	60.7	4807	7153	320
GGC350-3 Mining	350 MCM	888 37x24	1/0	8	0.095	0.252	2.68	68.1	6247	9296	394
GGC500-3 Mining	500 MCM	1221 37x33	2/0	8	0.095	0.315	3.03	77.0	8426	12539	487

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

STANDARD PRINT LEGEND:

TELE-FONIKA (SIZE) TYPE G-GC PORTABLE POWER CABLE 600 / 2000V 90C SUN OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT-5 (-40C) P-7K-268101-MSHA

