



Type G-GC

2000 V

ASTM B33, UL 44, UL 1650, ICEA S-75-381, CSA C22.2 96-17

Portable Power Cable 90°C. Mining grade

APPLICATIONS

- Use on AC off track equipment such as miners, shuttle cars, cutting machines, drills, conveyors and pumps
- Power to open pit strip and deep mines
- For applications requiring ground check for added safety
- Other industrial applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Separator	A suitable tape separator between the conductor and insulation
Insulation	Ethylene-propylene rubber (EPR)
Grounding conductors	Soft drawn flexible stranded tinned copper wires. Green polyester tape over conductor
Ground check conductor	Soft drawn flexible stranded tinned copper wires. Yellow PP insulation over conductor
Color Code	Black, white, red
Assembly	Sizes 4/0AWG and smaller: Three power, ground check and two grounding conductors cabled together Sizes 250MCM and larger: Three power, ground check and two grounding conductors cabled with rubber fillers to make round core. Single faced rubber filled binder tape applied over core
Reinforcement	Nylon open braid applied over core
Jacket	Black extra heavy duty CPE thermosetting compound
Bending radius	Minimum 6 x outer diameter



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Features

Excellent flexibility	Excellent impact and abrasion resistant
Water resistant and flame retardant	Ozone, sunlight, oil, grease, weather, chemical and heat resistant
Rated and flexible at -40°C to +90°C	Indent printed for easy identification

Approvals

UL:	E207132 - Oil Resistant, Oil Resistant Inners, Sunlight resistant, 90°C Wet or Dry
C(UL):	E207132 - FT1, FT5 -40°C to +90°C
MSHA:	P-7K-268101-1 (for sizes 8AWG-500MCM, black or color)
Standard length cable packing	1000ft on drums. Other forms of packing and delivery are available on request

Selection Data

Part Number	Power conductor size	Power conductor stranding	Size		Nominal Insulation Thickness	Outside Diameter		Approx. Weight		Ampacity ⁽¹⁾	
			GRD	GC		Inches	mm	Inches	mm		Lbs./1000ft.
	AWG or MCM	No. of wires	AWG		Inches	mm	Inches	mm	Lbs./1000ft.	kg/km	A
GGC8-3-MNG	8	133	10	10	0.06	1.52	0.97	24.6	637	948	65
GGC6-3-MNG	6	133	10	10	0.06	1.52	1.04	26.4	769	1145	87
GGC4-3-MNG	4	259	8	10	0.06	1.52	1.18	30.0	1077	1602	114
GGC2-3-MNG	2	259	7	8	0.06	1.52	1.33	33.8	1454	2164	152
GGC1-3-MNG	1	259	6	8	0.08	2.03	1.50	38.1	1837	2734	177
GGC1/0-3-MNG	1/0	266	5	8	0.08	2.03	1.63	41.4	2218	3300	205
GGC2/0-3-MNG	2/0	342	4	8	0.08	2.03	1.73	44.0	2666	3968	237
GGC3/0-3-MNG	3/0	418	3	8	0.08	2.03	1.86	47.2	3153	4692	274
GGC4/0-3-MNG	4/0	532	2	8	0.08	2.03	2.01	51.0	3857	5739	316

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Part Number	Power conductor size	Power conductor stranding	Size		Nominal Insulation Thickness	Outside Diameter		Approx. Weight		Ampacity ⁽¹⁾	
			GRD	GC		Inches	mm	Lbs./1000ft.	kg/km		
	AWG or MCM	No. of wires	AWG		Inches	mm	Inches	mm	Lbs./1000ft.	kg/km	A
GGC250-3-MNG	250	627	1	6	0.095	2.41	2.35	59.7	4869	7245	352
GGC350-3-MNG	350	888	1/0	6	0.095	2.41	2.64	67.1	6434	9574	433
GGC500-3-MNG	500	1221	3/0	6	0.095	2.41	2.99	76.0	8645	12864	536

(1) Ampacities based on 90°C Conductor and 30°C Ambient temperature per table 400.5(A)(2) of the National Electrical Code®

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

Standard Print Legend

TF CABLE (SIZE) TYPE G-GC PORTABLE POWER CABLE 2000V 90°C SUN RES OIL RES 90°C WET OR DRY (UL) E207132 C(UL) FT5 (-40°C) P-7K-268101-1-MSHA

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