

Type G-GC

2000V

ASTM B-33, UL 44, UL 1650, ICEA S-75-381, CSA C22.2 No.96-17

Portable Power Cable 90°C UL C(UL) MSHA 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	Annealed flexible stranded tin copper
Separator	Tape separator between conductor and insulation
Insulation	Ethylene-propylene rubber (EPR)
Grounding conductors	Annealed flexible stranded tin copper. Green polyester tape over conductors
Ground check	Yellow PP insulated annealed flexible stranded tin copper 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



Features

Excellent flexibility. Water resistant and flame resistant. Rated and flexible at -40°C to $+90^{\circ}\text{C}$. Excellent impact and abrasion resistant. Ozone, sunlight, oil, grease weather and chemical resistant

Approvals

UL: E207132 - Oil Resistant Oil Resistant Inner, Sunlight resistant 90°C Wet or Dry

C(UL): E207132, FT1, FT5 -40°C to +90°C,, **MSHA:** P-7K-268101

Technical and Electrical Characteristic

Part Number	Power conductor size	Power conductor stranding	Size		Nominal Insulation Thickness		Outside Diameter		Approx. Weight		Ampacity(1)
	AWG or MCM	No. of wires	AWG	GC	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
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®

Standard print legend:

TF CABLE (SIZE) TYPE G-GC PORTABLE POWER CABLE 2000V 90 C SUN RES OIL RES 90C WET OR DRY (UL) E 207132 C(UL) FT1 FT5 (-40C) P-7K-268101-MSHA

Special factory option

Jacket	Other colors available
MSHA	P-7K-268077 (Neoprene) (For sizes 6AWG-500MCM)
CSA	1523058 (LR 103932) -FT1; FT5 ; 90°C (-40°C) (Neoprene)
Jacket TPU	Other colors available
MSHA	P-07-KA120001 (TPU)