# 3/C CU 2000V EPDM/CPE Type G-GC Industrial Grade Cable 90°C. MSHA Approved

Flexible Copper conductors, Ethylene Propylene Diene Monomer (EPDM) insulation, Single Layer Chlorinated Polyethylene (CPE) Jacket



Image not to scale. See Table 1 for dimensions.

#### **CONSTRUCTION:**

- 1. Conductor: Bare, soft drawn, annealed, flexible, rope-lay stranded copper per ASTM B3/B172
- 2. Separator Tape: Non-conducting tape applied between the conductor and insulation to facilitate stripping
- 3. Insulation: Ethylene Propylene Diene Monomer (EPDM). Color coded black, white, red
- 4. Ground Check: One insulated, bare, soft drawn, annealed, rope stranded, flexible lay copper per ASTM B3/B172
- 5. Ground Conductors: Two insulated, bare, soft drawn, annealed, rope stranded, flexible lay copper per ASTM B3/B172
- 6. Fillers: Paper fillers applied as needed to round the cable core
- 7. Reinforcement Binder: Reinforcing binder with twine applied over the core
- 8. Jacket: Black, flame resistant, thermosetting Chlorinated Polyethylene (CPE)

## **APPLICATIONS AND FEATURES:**

Southwire Type G-GC cable is a heavy-duty industrial cable for use in flexible, portable, and extra-hard usage applications where equipment grounding is required per NEC Article 400. Suitable for continuous submersion in water – ideal for submersible pumps, marine application. Also suitable for use in light to medium-duty mining applications. Sunlight and oil resistant. Highly flexible and easy to work with in cold conditions. Not for use as permanent building wiring. Meets FT-5 Flame Test. cUL Listed.

#### **SPECIFICATIONS:**

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- UL 1650 Standard for Portable Power Cable
- RoHS-2 (European Directive 2011/65/EU)

## **SAMPLE PRINT LEGEND:**

XXX AWG 3/C TYPE G-GC PORTABLE POWER CABLE 90°C - WET OR DRY 2000V OIL RESISTANT 60°C SUN RES. {UL} P-136-35-MSHA - AIW{TM} E172226 --- c{UL} FT1/FT5 (-40°C)



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com



## **Table 1 – Weights and Measurements**

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Ground	Ground Check Size	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/ Kcmil	No.	No.	inch	mil	No. x AWG	AWG	mil	inch	lb/1000ft
558170	2	3	168	0.290	60	2 x 7	1x8	165	1.289	1405

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

## **Table 2 – Electrical and Engineering Data**

Cond. Size	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance	Min Bending Radius	Allowable Ampacity In Air 60°C	Allowable Ampacity In Air 75°C	Allowable Ampacity In Air 90°C
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	inch	Amp	Amp	Amp
2	0.172	0.207	0.045	6.4	112	133	152

\* Inductive impedance is based on non-ferrous conduit with one diameter spacing.



