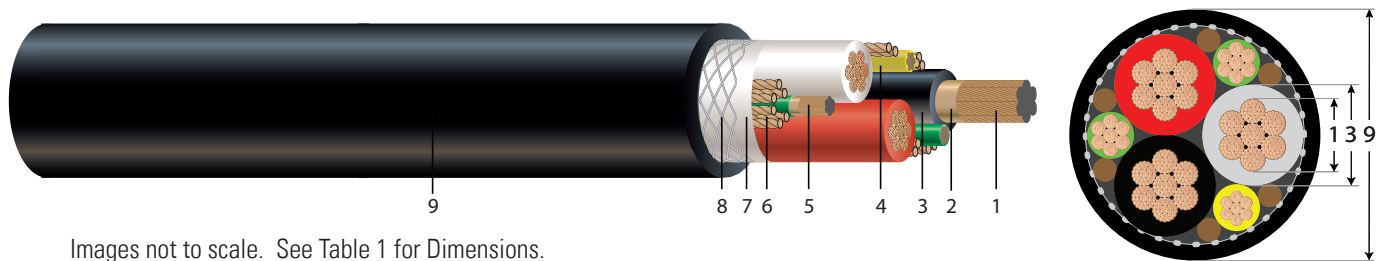


3/C CU 2000V EPDM/CPE Type G-GC Industrial Grade Cable 90°C

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



Images 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. **Tape:** Reinforcing tape applied over the cabled core for improved mechanical integrity and ease of stripping.
8. **Reinforcement Binder:** Reinforcing twine applied over the taped core.
9. **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 Article NEC 400. Suitable for continuous submersion in water – ideal for submersible pumps. 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.

SPECIFICATIONS:

- MSHA Approved
- ASTM B3 Soft or Annealed Copper Wire
- ASTM B172 Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members, for Electrical Conductors
- UL and cUL Listed
- Meets FT-5 Flame Test
- Meets UL 1650
- RoSH Compliant

SAMPLE PRINT LEGEND:

2 AWG 3/C TYPE G-GC PORTABLE POWER CABLE 90°C WET OR DRY 2000V OIL AND SUN RES (UL) P-136-35-MSHA AIW™ c(UL) FT1/FT5 (-40°C)



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Table 1 – Weights & Measurements

Stock Code	Phase Conductors			Insulation		Ground Conductors		Ground Check		Nominal OD (9)	Weight
	Size	Strands	Diameter (1)	Thickness	Diameter (3)	Size	Strands	Size	Strands		
	AWG	No.	inches	mils	inches	AWG	No.			inches	lbs./MFT
560537	8	71	0.148	60	0.30	10	104	10	104	0.95	610
558168	6	65	0.184	60	0.33	10	104	10	104	1.03	730
558169	4	112	0.235	60	0.39	8	41	10	104	1.11	970
558170	2	168	0.315	60	0.47	7	52	10	104	1.31	1340
570098	1	224	0.362	80	0.55	6	273	8	71	1.50	1770
558165	1/0	259	0.385	80	0.58	5	133	8	71	1.58	2070
558166	2/0	324	0.420	80	0.61	4	133	8	71	1.65	2450
560065	3/0	418	0.470	80	0.66	3	133	8	71	1.76	2970
558167	4/0	532	0.535	80	0.73	2	259	8	71	1.93	3630
570239	250	608	0.605	95	0.83	2	259	8	71	2.29	4460
559281	350	855	0.670	95	0.89	1/0	259	8	71	2.43	5810
570243	500	1221	0.858	95	1.08	2/0	324	8	71	2.89	7970

All dimensions are nominal and subject to normal manufacturing tolerances

Table 2 – Electrical and Engineering Data

Stock Code	Conductor Size	Resistance		Reactance	Allowable Ampacities [†]			
		DC @ 25°C	AC @ 90°C	X _L @ 60Hz	Minimum Bending Radius	60°C	75°C	90°C
	AWG	Ω/MFT	Ω/MFT	Ω/MFT	inches	Amps	Amps	Amps
560537	8	0.6530	0.816	0.038	6	48	57	65
558168	6	0.4190	0.524	0.035	6	63	77	87
558169	4	0.2630	0.329	0.033	7	84	101	114
558170	2	0.1660	0.208	0.031	8	112	133	152
570098	1	0.1310	0.164	0.031	9	131	156	177
558165	1/0	0.1050	0.131	0.031	9	151	181	205
558166	2/0	0.0834	0.104	0.030	10	174	208	237
560065	3/0	0.0662	0.083	0.030	11	201	241	274
558167	4/0	0.0525	0.066	0.029	12	232	277	316
570239	250	0.0448	0.056	0.029	14	259	310	352
559281	350	0.0320	0.040	0.028	15	318	381	433
570243	500	0.0224	0.028	0.027	17	392	470	536

[†] Ampacity based on NEC 400.5(A)(2) and is for a single isolated cable in air operated at an ambient temperature of 30°C connected to utilization equipment so that only three conductors are current-carrying.



Southwire®