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
- CSA C22.2 No. 96 Portable Power Cables
- RoHS-2 (European Directive 2011/65/EU)

SAMPLE PRINT LEGEND:

SOUTHWIRE(R) ROYAL(R) XXX AWG (XX.XXmm2) 3/C TYPE G-GC PORTABLE POWER CABLE E172226 (UL) 2000V 90C DRY 90C WET OIL RESISTANT 60(D)C SUN RES -- 156205 CSA TYPE G-GC 2000V -40C FT1 FT5 P-07-KA110009-MSHA (MADE IN USA)

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Ground	Ground Check Size	Ground Check Insulation Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Jacket Color
	AWG/ Kcmil	No.	No.	inch	mil	No. x AWG	AWG	mil	mil	inch	lb/1000ft	
570103	10	3	104	0.125	60	2 x 12	12	1x12	130	0.805	427	BK
560537	8	3	71	0.145	60	2 x 10	10	1x10	170	0.966	649	BK
558168	6	3	65	0.186	60	2 x 10	10	1x10	170	1.042	810	BK
558169	4	3	112	0.235	60	2 x 8	8	1x8	130	1.172	1097	BK
558170	2	3	168	0.291	60	2 x 7	8	1x8	160	1.301	1374	BK
570098	1	3	224	0.3	80	2 x 6	8	1x8	155	1.481	1773	BK
558165	1/0	3	259	0.379	80	2 x 5	8	1x8	170	1.626	2034	BK
558166	2/0	3	324	0.4	80	2 x 4	8	1x8	210	1.722	2550	BK
560065	3/0	3	418	0.48	80	2 x 3	8	1x8	205	1.833	3029	BK
558167	4/0	3	532	0.53	80	2 x 2	8	1x8	200	1.975	3566	BK
570239	250	3	627	0.605	95	2 x 1	8	1x8	275	2.321	4696	BK
559281	350	3	893	0.67	95	2 x 1/0	8	1x8	350	2.615	6260	BK
570243	500	3	1221	0.858	95	2 x 3/0	8	1x8	310	2.936	8204	BK

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Table 2 – Electrical and Engineering Data

Cond. Size	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance	Max Pull Tension	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	lb	inch	Amp	Amp	Amp
10	1.04	1.291	0.05		3.2	37	43	49
8	0.654	0.812	0.052	396	3.9	48	57	65
6	0.419	0.52	0.051	629	5.2	63	77	87
4	0.263	0.326	0.048	1001	5.9	84	101	114
2	0.166	0.206	0.045	1592	6.5	112	133	152
1	0.132	0.164	0.046	2008	7.4	131	156	177
1/0	0.105	0.13	0.044	2534	8.1	151	181	205
2/0	0.084	0.104	0.043	3194	8.6	174	208	237
3/0	0.066	0.082	0.042	4027	9.2	201	241	274
4/0	0.053	0.066	0.041	5078	9.9	232	277	316
250	0.045	0.056	0.041	6000	13.9	259	310	352
350	0.032	0.041	0.04	8400	15.7	318	381	433
500	0.022	0.029	0.039	12000	17.6	392	470	536

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

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