

4/C CU 2000V EPDM/CPE Type G Industrial Grade Cable 90°C

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 Dien Monomer (EPDM). Color coded black, white, blue, red for sizes #4/0 and smaller and black, white, red, orange for sizes over 250 kcmil
4. **Ground Conductors:** Four insulated, bare, soft drawn, annealed, rope stranded, flexible lay copper per ASTM B3/B172
5. **Fillers:** Paper fillers applied as needed to round the cable core
6. **Tape:** Reinforcing tape applied over the cabled core for improved mechanical integrity and ease of stripping
7. **Reinforcement Binder:** Reinforcing twine applied over the tapped core
8. **Jacket:** Black, flame resistant, thermosetting Chlorinated Polyethylene (CPE)

APPLICATIONS AND FEATURES:

Southwire Type G 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 Standard Specification for 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
- MSHA Approved
- RoHS-2 (European Directive 2011/65/EU)

SAMPLE PRINT LEGEND:

2 AWG 4/C TYPE G PORTABLE POWER CABLE 90°C WET OR DRY 2000V OIL AND SUN RES (UL) P-136-35-MSHA AIWTM c (UL) FT1/FT5 (-40°C)



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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Ground Size	Ground Strands	Approx. OD	Approx. Weight
	AWG/ Kcmil	No.	No.	inch	mil	inch	AWG	No.	inch	lb/1000ft
562078	8	4	71	0.147	60	0.303	12	65	1.08	720
571473	6	4	65	0.184	60	0.340	12	65	1.13	870
571365	4	4	112	0.235	60	0.391	10	104	1.25	1,190
562081	2	4	168	0.315	60	0.471	9	49	1.46	1,890
562083	1	4	224	0.362	80	0.558	8	41	1.66	2,220
562084	1/0	4	259	0.385	80	0.581	7	52	1.76	2,450
562085	2/0	4	324	0.42	80	0.616	6	273	1.87	2,980
560066	3/0	4	418	0.47	80	0.666	5	133	2.00	3,640
562086	4/0	4	532	0.535	80	0.731	4	133	2.18	4,430
571407	250	4	608	0.605	95	0.831	3	133	2.56	5,980
570260	350	4	855	0.67	95	0.896	2	259	2.69	7,410
570261	500	4	1221	0.858	95	1.084	1/0	259	3.26	10,360

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

Stock Number	Cond. Size	Cond. Number	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	No.	Ω/1000ft	Ω/1000ft	MΩ/1000ft	inch	Amp	Amp	Amp
562078	8	4	0.6660	0.8480	0.041	7	48	57	65
571473	6	4	0.4150	0.5290	0.038	7	63	77	87
571365	4	4	0.2630	0.3350	0.036	8	84	101	114
562081	2	4	0.1720	0.2150	0.034	9	112	133	152
562083	1	4	0.1310	0.1660	0.034	10	131	156	177
562084	1/0	4	0.1090	0.1390	0.034	11	151	181	205
562085	2/0	4	0.0834	0.1060	0.033	11	174	208	237
560066	3/0	4	0.0662	0.0840	0.032	12	201	241	274
562086	4/0	4	0.0525	0.0660	0.032	13	232	277	316
571407	250	4	0.0448	0.0580	0.032	15	259	310	352
570260	350	4	0.0320	0.0410	0.031	16	318	381	433
570261	500	4	0.0224	0.0290	0.030	20	392	470	536

* Inductive reactance based three current-carrying conductors.

† 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. If 4 conductors are current-carrying, derate by 0.80 per NEC Table 400.5(A)(3)



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