4/C CU 2000V EPDM/CPE Type G 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, 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:** Jute fillers applied as needed to round the cable core
6. **Reinforcement Binder:** Reinforcing binder with twine applied over the core
7. **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 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)

Copyright © 2024 Southwire Company, LLC. All Rights Reserved

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Ground	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/ Kcmil	No.	No.	inch	mil	No. x AWG	mil	inch	lb/1000ft
562078	8	4	71	0.145	60	4 x 12	145	0.985	629
571473	6	4	65	0.186	60	4 x 12	145	1.130	865
571365	4	4	112	0.235	60	4 x 10	175	1.222	1121
562081	2	4	168	0.290	60	4 x 9	205	1.479	1882
562083	1	4	224	0.300	80	4 x 8	145	1.591	2063
562084	1/0	4	259	0.379	80	4 x 7	155	1.755	2452
562085	2/0	4	324	0.400	80	4 x 6	155	1.930	3057
560066	3/0	4	418	0.480	80	4 x 5	155	2.048	3679
562086	4/0	4	532	0.530	80	4 x 4	155	2.175	4392
571407	250	4	608	0.605	95	4 x 3	270	2.527	5609
570260	350	4	893	0.670	95	4 x 2	270	2.972	8110
570261	500	4	1221	0.858	95	4 x 1/0	325	3.230	10201

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	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
8	0.679	0.818	0.052		3.9	38	46	52
6	0.435	0.524	0.051		5.6	50	62	70
4	0.274	0.330	0.048		6.1	67	81	91
2	0.172	0.207	0.045		7.3	90	106	122
1	0.137	0.164	0.046		7.9	105	125	142
1/0	0.109	0.131	0.044		8.7	121	145	164
2/0	0.087	0.104	0.043		9.6	139	166	190
3/0	0.069	0.083	0.042		12.2	161	193	219
4/0	0.055	0.067	0.041		13.0	186	222	253
250	0.047	0.057	0.041		15.1	207	248	282
350	0.033	0.042	0.040		17.8	254	305	346
500	0.023	0.031	0.039		19.3	314	376	429

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