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)

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Jacket Color
	AWG/ Kcmil	No.	No.	inch	mil	mil	inch	lb/1000ft	
562078	8	4	71	0.145	60	155	0.997	704	BK
571473	6	4	65	0.186	60	155	1.086	867	BK
571365	4	4	112	0.235	60	165	1.229	1221	BK
562081	2	4	168	0.291	60	180	1.454	1763	BK
562083	1	4	224	0.3	80	155	1.617	2130	BK
562084	1/0	4	259	0.379	80	175	1.716	2541	BK
562085	2/0	4	324	0.4	80	210	1.873	3150	BK
560066	3/0	4	418	0.48	80	205	1.984	3769	BK
562086	4/0	4	532	0.53	80	225	2.174	4597	BK
571407	250	4	627	0.605	95	295	2.564	5836	BK
570260	350	4	893	0.67	95	375	2.877	7899	BK
570261	500	4	1221	0.858	95	350	3.281	10482	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	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	lb	inch	Amp	Amp	Amp
8	0.654	0.812	0.052	528	528	4	38	46	52
6	0.419	0.52	0.051	839	839	5.4	50	62	70
4	0.263	0.326	0.048	1335	1335	6.1	67	81	91
2	0.166	0.206	0.045	2123	2123	7.3	90	106	122
1	0.132	0.164	0.046	2678	2678	8.1	105	125	142
1/0	0.105	0.13	0.044	3379	3379	8.6	121	145	164
2/0	0.084	0.104	0.043	4259	4259	9.4	139	166	190
3/0	0.066	0.082	0.042	5369	5369	9.9	161	193	219
4/0	0.053	0.066	0.041	6771	6771	13	186	222	253
250	0.045	0.056	0.041	8000	8000	15.4	207	248	282
350	0.032	0.041	0.04	11200	11200	17.3	254	305	346
500	0.022	0.029	0.039	16000	16000	19.7	314	376	429

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

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