3/C CU 2000V EPDM/CPE Type W Industrial Grade Cable 90°C. MSHA Approved

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

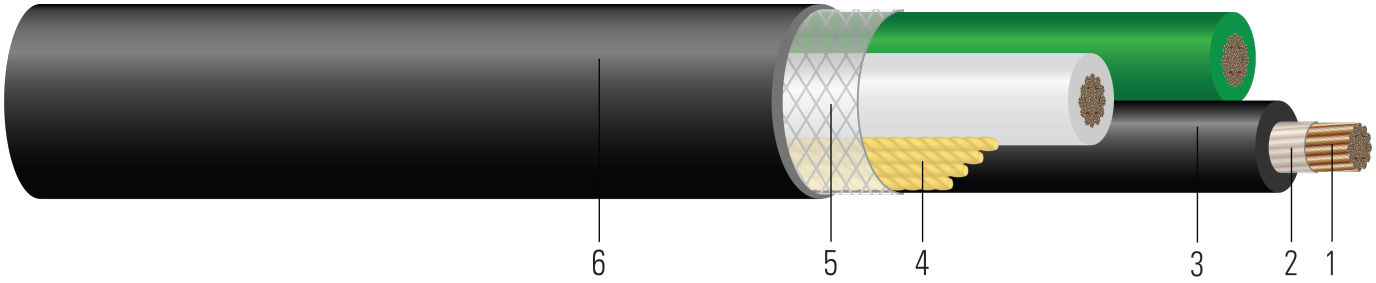


Image not to scale. See Table 1 for dimensions.

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, green.
4. **Fillers:** Jute fillers applied as needed to round the cable core
5. **Reinforcement Binder:** Reinforcing binder with twine applied over the core
6. **Jacket:** Black, flame resistant, thermosetting Chlorinated Polyethylene (CPE)

APPLICATIONS AND FEATURES:

Southwire Type W cable is a heavy-duty industrial cable for use in flexible, portable, and extra-hard usage applications 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 perminant building wiring. Meets FT-5 Flame Test. cUL listing on select items only.

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
- MSHA Approved
- RoHS-2 (European Directive 2011/65/EU)

SAMPLE PRINT LEGEND:

SOUTHWIRE(R) ROYAL(R) XXX AWG (XX.XXmm2) 3/C TYPE W PORTABLE POWER CABLE E172226 (UL) 2000V 90C DRY 90C WET SUN RES -- 156205 CSA TYPE W 2000V -40C FT1 FT5 P-07-KA100010-MSHA

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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	
558151	8	3	71	0.145	60	175	0.968	527	BK
570256	6	3	65	0.186	60	170	1.042	672	BK
571409	4	3	112	0.235	60	175	1.156	885	BK
559279	2	3	168	0.291	60	160	1.303	1154	BK
TBA	1	3	224	0.3	80	145	1.287	754	BK
456250	1/0	3	259	0.379	80	190	1.606	1802	BK
559280	2/0	3	324	0.4	80	200	1.701	2149	BK
646468	3/0	3	418	0.48	80	215	1.837	2658	BK
570252	4/0	3	532	0.53	80	215	1.977	3067	BK
TBA	250	3	608	0.605	95	155	2.03	2564	BK
571292	350	3	893	0.67	95	355	2.615	5615	BK
571442	500	3	1221	0.858	95	310	2.935	7179	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	396	396	3.9	48	57	65
6	0.419	0.52	0.051	629	629	5.2	63	77	87
4	0.263	0.326	0.048	1001	1001	5.8	84	101	114
2	0.166	0.206	0.045	1592	1592	6.5	112	133	152
1	0.132	0.164	0.046	2008	2008	6.4	131	156	177
1/0	0.105	0.13	0.044	2534	2534	8	151	181	205
2/0	0.084	0.104	0.043	3194	3194	8.5	174	208	237
3/0	0.066	0.082	0.042	4027	4027	9.2	201	241	274
4/0	0.053	0.066	0.041	5078	5078	9.9	232	277	316
250	0.045	0.056	0.041	6000	6000	12.2	259	310	352
350	0.032	0.041	0.04	8400	8400	15.7	318	381	433
500	0.022	0.029	0.039	12000	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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