5/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, red, green, orange
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 NEC Article 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 permanent 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.Xmm2) X/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	
571259	8	5	71	0.145	60	135	1.044	663	BK
570257†	6	5	65	0.186	60	170	1.206	930	BK
570255	4	5	112	0.235	60	185	1.382	1339	BK
571483	2	5	168	0.291	60	185	1.593	1826	BK
TBA	1	5	224	0.3	80	205	1.655	1257	BK
570097	1/0	5	259	0.379	80	225	1.973	2962	BK
571470	2/0	5	324	0.4	80	225	2.066	3393	BK
571472	3/0	5	418	0.48	80	225	2.203	4063	BK
570253	4/0	5	532	0.53	80	240	2.41	5257	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.
† Wax paper filler (instead of jute filler)

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	660	660	5.2	38	46	52
6	0.419	0.52	0.051	1049	1049	6	50	62	70
4	0.263	0.326	0.048	1669	1669	6.9	67	81	91
2	0.166	0.206	0.045	2654	2654	8	90	106	122
1	0.132	0.164	0.046	3347	3347	8.3	105	125	142
1/0	0.105	0.13	0.044	4224	4224	9.9	121	145	164
2/0	0.084	0.104	0.043	5324	5324	12.4	139	166	190
3/0	0.066	0.082	0.042	6712	6712	13.2	161	193	219
4/0	0.053	0.066	0.041	8464	8464	14.5	186	222	253

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

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