4/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
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.

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) 4/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	
558152	8	4	71	0.145	60	155	0.998	593	BK
597803	8	4	133	0.145	60	155	1.036	607	BK
558154	6	4	65	0.186	60	155	1.085	774	BK
TBA	4	4	427	0.235	60	145	1.152	632	BK
558156	4	4	112	0.235	60	165	1.227	1056	BK
558157	2	4	168	0.291	60	180	1.453	1707	BK
570102	1	4	224	0.3	80	155	1.617	1973	BK
558158	1/0	4	259	0.379	80	175	1.718	2230	BK
558159	2/0	4	324	0.4	80	210	1.872	2765	BK
560068	3/0	4	418	0.48	80	210	1.986	3350	BK
560069	4/0	4	532	0.53	80	220	2.174	3944	BK
456216	250	4	627	0.605	95	295	2.562	5132	BK
570250	350	4	893	0.67	95	375	2.877	7000	BK
458465	500	4	1221	0.858	95	375	3.331	9240	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
8	0.654	0.812	0.052	528	528	5.2	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	5.8	67	81	91
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	20	314	376	429

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

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