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® ROYAL® {5 CROWN LOGO} XX AWG (XX.XXmm2) 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
	AWG/Kcmil	No.	No.	inch	mil	mil	inch	lb/1000ft
558152	8	4	71	0.145	60	155	0.988	577
597803	8	4	133	0.145	60	155	1.011	573
558154	6	4	65	0.186	60	145	1.120	748
TBA	4	4	427	0.235	60	145	1.171	952
558156	4	4	112	0.235	60	125	1.223	1054
558157	2	4	168	0.290	60	145	1.465	1766
570102	1	4	224	0.300	80	145	1.654	1985
558158	1/0	4	259	0.379	80	165	1.729	2249
558159	2/0	4	324	0.400	80	225	1.874	2764
560068	3/0	3	418	0.480	80	155	1.890	3226
560069	4/0	4	532	0.530	80	235	2.199	3979
TBA	250	4	608	0.605	95	270	2.486	4705
570250	350	4	893	0.670	95	284	2.968	7114
TBA	500	4	1221	0.858	95	310	3.178	8464

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
8	0.679	0.818	0.052		5.0	38	46	52
6	0.435	0.524	0.051		5.6	50	62	70
4	0.274	0.330	0.048		5.8	67	81	91
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		8.2	105	125	142
1/0	0.109	0.131	0.044		8.6	121	145	164
2/0	0.087	0.104	0.043		9.3	139	166	190
3/0	0.069	0.083	0.042		9.4	201	241	274
4/0	0.055	0.067	0.041		13.1	186	222	253
250	0.047	0.057	0.041		14.9	207	248	282
350	0.033	0.042	0.040		17.8	254	305	346
500	0.023	0.031	0.039		19.0	314	376	429

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