

## 4/C CU 2000V EPDM/CPE Type W Industrial Grade Cable 90°C

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:

- Conductor:** Bare, soft drawn, annealed, flexible, rope-lay stranded copper per ASTM B3/B172
- Separator Tape:** Non-conducting tape applied between the conductor and insulation to facilitate stripping
- Insulation:** Ethylene Propylene Diene Monomer (EPDM). Color coded black, white, red, green
- Fillers:** Paper fillers applied as needed to round the cable core
- Tape:** Reinforcing tape applied over the cabled core for improved mechanical integrity and ease of stripping
- Reinforcement Binder:** Reinforcing twine applied over the tapped core
- 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 permanent building wiring. Meets FT-5 Flame Test.

### SPECIFICATIONS:

- ASTM B3 Standard Specification for 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:

SOUTHWIRE® ROYAL® {5 CROWN LOGO} XX AWG (XX.XXmm<sup>2</sup>) 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	Diameter Over Insulation	Approx. OD	Approx. Weight
	AWG/ Kcmil	No.	No.	inch	mil	inch	inch	lb/1000ft
558152	8	4	71	0.147	60	0.303	1.03	575
597803	8	4	133	0.162	60	0.288	0.971	524
558154	6	4	65	0.184	60	0.34	1.12	810
558156	4	4	112	0.235	60	0.391	1.25	1,130
TBA	4	4	427	0.240	60	0.401	0.595	265
558157	2	4	168	0.315	60	0.471	1.47	1,720
570102	1	4	224	0.362	80	0.558	1.63	2,010
558158	1/0	4	259	0.385	80	0.581	1.73	2,230
558159	2/0	4	324	0.42	80	0.616	1.88	2,790
560068	3/0	4	418	0.47	80	0.666	1.91	3,200
560069	4/0	4	532	0.535	80	0.731	2.18	3,990
TBA	250	4	608	0.605	95	0.831	2.56	5,410
570250	350	4	855	0.67	95	0.896	2.65	6,380
TBA	500	4	1221	0.858	95	1.084	3.26	9,080

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

Stock Number	Cond. Size	Cond. Number	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance	Min Bending Radius	Allowable Ampacity In Air 60°C†	Allowable Ampacity In Air 75°C†	Allowable Ampacity In Air 90°C†
	AWG/ Kcmil	No.	Ω/1000ft	Ω/1000ft	MΩ/1000ft	inch	Amp	Amp	Amp
558152	8	4	0.666	0.848	0.041	7	48	57	65
597803	8	4	0.666	0.848	0.041	7	48	57	65
558154	6	4	0.415	0.529	0.038	7	63	77	87
558156	4	4	0.263	0.335	0.036	8	84	101	114
TBA	4	4	0.263	0.335	0.036	8	84	101	114
558157	2	4	0.172	0.215	0.034	9	112	133	152
570102	1	4	0.131	0.166	0.034	10	131	156	177
558158	1/0	4	0.109	0.139	0.034	11	151	181	205
558159	2/0	4	0.0834	0.106	0.033	11	174	208	237
560068	3/0	4	0.0662	0.084	0.032	12	201	241	274
560069	4/0	4	0.0525	0.066	0.032	13	232	277	316
TBA	250	4	0.0448	0.058	0.032	15	259	310	352
570250	350	4	0.032	0.041	0.031	16	318	381	433
TBA	500	4	0.0224	0.029	0.03	20	392	470	536

\* Inductive reactance based three current-carrying conductors.

† Ampacity based on NEC 400.5(A)(2) and is for a single isolated cable in air operated at an ambient temperature of 30°C connected to utilization equipment so that only three conductors are current-carrying. If 4 conductors are current-carrying, derate by 0.80 per NEC Table 400.5(A)(3)



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