

## 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:

- 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, green.
- Fillers:** Paper fillers applied as needed to round the cable core
- Reinforcement Binder:** Reinforcing binder with twine applied over the 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. cUL listing on select items only.

### 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:

# AWG 3/C TYPE W PORTABLE POWER CABLE 90°C WET OR DRY 2000V OIL AND SUN RES (UL) P-136-35-MSHA AIWTM c (UL) FT1/FT5 (-40°C)



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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
558151	8	3	71	0.148	60	0.3	0.95	470
570256	6	3	65	0.184	60	0.33	1.03	600
571409	4	3	112	0.235	60	0.39	1.11	790
559279	2	3	168	0.315	60	0.47	1.31	1130
TBA	1	3	224	0.362	80	0.55	1.5	1490
TBA	1/0	3	259	0.385	80	0.58	1.58	1,730
559280	2/0	3	324	0.42	80	0.61	1.65	2,050
646468	3/0	3	418	0.470	80	0.66	1.76	2,480
570252	4/0	3	532	0.535	80	0.73	1.93	3,040
TBA	250	3	608	0.605	95	0.83	2.29	3,870
571292	350	3	855	0.67	95	0.89	2.43	4,950
599101	500	3	1221	0.858	95	1.054	2.89	6,534
571442	500	3	1221	0.858	95	1.08	2.89	6,900

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
558151	8	3	0.666	0.848	0.041	6	48	57	65
570256	6	3	0.415	0.529	0.038	6	63	77	87
571409	4	3	0.263	0.335	0.036	7	84	101	114
559279	2	3	0.172	0.215	0.034	8	112	133	152
TBA	1	3	0.131	0.166	0.034	9	131	156	177
TBA	1/0	3	0.109	0.139	0.034	9	151	181	205
559280	2/0	3	0.0834	0.106	0.033	10	174	208	237
646468	3/0	3	0.0662	0.0840	0.032	11	201	241	274
570252	4/0	3	0.0525	0.066	0.032	12	232	277	316
TBA	250	3	0.0448	0.058	0.032	14	259	310	352
571292	350	3	0.032	0.041	0.031	15	318	381	433
599101	500	3	0.0224	0.029	0.03	17	392	470	536
571442	500	3	0.0224	0.029	0.03	17	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 with three current-carrying conductors.



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