

## 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:** Jute 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 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 AWG/Kcmil	Cond. Number No.	Cond. Strands No.	Diameter Over Conductor inch	Insul. Thickness mil	Jacket Thickness mil	Approx. OD inch	Approx. Weight lb/1000ft
558151	8	3	71	0.145	60	145	0.963	477
570256	6	3	65	0.186	60	145	1.030	609
571409	4	3	112	0.235	60	125	1.170	881
559279	2	3	168	0.290	60	145	1.292	1151
TBA	1	3	224	0.300	80	145	1.304	1173
TBA	1/0	3	259	0.379	80	160	1.505	1671
559280	2/0	3	324	0.400	80	155	1.691	2098
646468	3/0	3	418	0.480	80	160	1.713	2406
570252	4/0	3	532	0.530	80	175	1.913	2904
TBA	250	3	608	0.605	95	155	2.048	3382
571292	350	3	893	0.670	95	245	2.685	5679
599101	500	3	1221	0.858	95	245	2.800	6568
571442	500	3	1221	0.858	95	270	2.861	6897

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 AWG/ Kcmil	DC Resistance @ 25°C Ω/1000ft	AC Resistance @ 90°C Ω/1000ft	Inductive Reactance MΩ/1000ft	Max Pull Tension lb	Min Bending Radius inch	Allowable Ampacity In Air 60°C Amp	Allowable Ampacity In Air 75°C Amp	Allowable Ampacity In Air 90°C Amp
8	0.679	0.818	0.052		3.8	48	57	65
6	0.435	0.524	0.051		5.1	63	77	87
4	0.274	0.330	0.048		5.8	84	101	114
2	0.172	0.207	0.045		6.4	112	133	152
1	0.137	0.164	0.046		6.5	131	156	177
1/0	0.109	0.131	0.044		7.5	151	181	205
2/0	0.087	0.104	0.043		8.4	174	208	237
3/0	0.069	0.083	0.042		8.5	201	241	274
4/0	0.055	0.067	0.041		9.5	232	277	316
250	0.047	0.057	0.041		12.2	259	310	352
350	0.033	0.042	0.040		16.1	318	381	433
500	0.023	0.031	0.039		16.8	392	470	536
500	0.023	0.031	0.039		17.1	392	470	536

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

