

5/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, red, green, orange
- 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 NEC Article 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 5/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)



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
571259	8	5	71	0.145	60	155	1.056	665
570257	6	5	65	0.186	60	145	1.210	881
570255	4	5	112	0.235	60	195	1.399	1347
571483	2	5	168	0.290	60	175	1.605	1990
TBA	1	5	224	0.300	80	205	1.254	1307
570097	1/0	5	259	0.379	80	260	2.041	3075
571470	2/0	5	324	0.400	80	205	2.072	3336
571472	3/0	5	418	0.480	80	205	2.153	3893
570253	4/0	5	532	0.530	80	225	2.394	5313

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
571259	8	5	0.679	0.818	0.052	5.2	48	57	65
570257	6	5	0.435	0.524	0.051	6.0	63	77	87
570255	4	5	0.274	0.330	0.048	6.9	84	101	114
571483	2	5	0.172	0.207	0.045	8.0	112	133	152
TBA	1	5	0.137	0.164	0.046	6.2	131	156	177
570097	1/0	5	0.109	0.131	0.044	12.2	151	181	205
571470	2/0	5	0.087	0.104	0.043	12.4	174	208	237
571472	3/0	5	0.069	0.083	0.042	12.9	201	241	274
570253	4/0	5	0.055	0.067	0.041	14.3	232	277	316

* 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 or 5 conductors are current-carrying, derate by 0.80 per NEC Table 400.5(A)(3).

