

2/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
- 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-1 and FT-5 Flame Tests. 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 2/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
559272	8	2	71	0.148	60	0.3	0.84	320
TBA	6	2	65	0.184	60	0.33	0.91	410
570254	4	2	112	0.235	60	0.39	1.01	550
TBA	2	2	168	0.315	60	0.47	1.24	840
TBA	1	2	224	0.362	80	0.55	1.44	1130
TBA	1/0	2	259	0.385	80	0.58	1.49	1260
559276	2/0	2	324	0.42	80	0.61	1.56	1490
TBA	3/0	2	418	0.47	80	0.66	1.66	1780
TBA	4/0	2	532	0.535	80	0.73	1.82	2180
TBA	250	2	608	0.605	95	0.83	1.99	2510
TBA	350	2	855	0.67	95	0.89	2.15	3280
TBA	500	2	1221	0.858	95	1.08	2.59	4620

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	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	inch	Amp	Amp	Amp
559272	8	2	0.65	0.82	5	55	65	74
TBA	6	2	0.42	0.52	5	72	88	99
570254	4	2	0.26	0.33	6	96	115	130
TBA	2	2	0.17	0.21	7	128	152	174
TBA	1	2	0.13	0.16	9	150	178	202
TBA	1/0	2	0.11	0.13	9	173	207	234
559276	2/0	2	0.08	0.1	9	199	238	271
TBA	3/0	2	0.07	0.08	10	230	275	313
TBA	4/0	2	0.05	0.07	11	265	317	361
TBA	250	2	0.04	0.06	12	296	354	402
TBA	350	2	0.03	0.04	13	363	435	495
TBA	500	2	0.02	0.03	16	448	537	613

† Ampacity based on NEC 400.5(A)(2) and is for a two-conductor W cable only where the individual conductors are not installed in raceways and are not in physical contact with each other except in lengths not to exceed 600 mm (24 in.) where passing through the wall of an enclosure.

