

1/C CU 2000V EPDM/CPE Type W RHH/RHW-2 Industrial Grade Cable 90°C

Flexible Copper Conductors, Ethylene Propylene Diene Monomer (EPDM) Insulation, Single Layer Chlorinated Polyethylene (CPE) Jacket. Type RHH/RHW-2 90°C Wet and Dry



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)
- Reinforcement Binder:** Reinforcing twine.
- 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. Approved for use per the NEC® as Type RHH/RHW-2 90°C wet or dry. Meets FT-1 and FT-5 Flame Tests.

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 44 Thermoset-Insulated Wires and Cables
- UL 1650 Standard for Portable Power Cable
- MSHA Approved
- RoHS-2 (European Directive 2011/65/EU)

SAMPLE PRINT LEGEND:

AMERICAN MUSTANG # AWG 1/C TYPE W PORTABLE POWER CABLE 90°C - WET OR DRY 2000V OIL AND SUN. RES. RHH/RHW-2 AIWTM (UL) P-136-35-MSHA cUL FT1/FT5 -40°C FOR HARD USAGE ONLY RoHS



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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
599664	8	1	168	0.157	60	0.3	0.44	140
599718	6	1	65	0.184	60	0.33	0.54	200
640807	4	1	427	0.240	60	0.39	0.6	280
TBA	2	1	651	0.320	60	0.47	0.68	380
640810 [^]	2	1	259	0.334	60	0.460	0.66	350
641392	1	1	224	0.362	80	0.55	0.76	500
641395	1/0	1	259	0.385	80	0.58	0.79	560
641398	2/0	1	324	0.42	80	0.61	0.82	670
641388	3/0	1	418	0.47	80	0.66	0.87	810
641402	4/0	1	532	0.535	80	0.709	0.901	890
641405	250	1	608	0.605	95	0.83	1.04	1160
641409	350	1	855	0.67	95	0.89	1.1	1510
641412	500	1	1221	0.858	95	1.05	1.254	1891
560072	500	1	1221	0.858	95	1.08	1.29	1936

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

[^] class H stranding

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
599664	8	1	0.65	0.82	1.8	40	48	55
599718	6	1	0.42	0.52	2.2	55	66	75
640807	4	1	0.26	0.33	2.4	70	84	95
TBA	2	1	0.17	0.21	2.7	96	115	130
640810 [^]	2	1	0.17	0.21	2.7	96	115	130
641392	1	1	0.13	0.16	3	107	128	145
641395	1/0	1	0.11	0.13	3.2	126	150	170
641398	2/0	1	0.08	0.1	3.3	144	172	195
641388	3/0	1	0.07	0.08	3.5	167	199	225
641402	4/0	1	0.05	0.07	3.6	192	230	260
641405	250	1	0.04	0.06	5.2	215	257	290
641409	350	1	0.03	0.04	5.5	259	310	350
641412	500	1	0.02	0.03	6.3	319	381	430
560072	500	1	0.02	0.03	6.5	319	381	430

[^] class H stranding

† Ampacities are based on Table 310.15 (B)(16) of the NEC, 2014 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)

MBR is based on an operating voltage of less than or equal to 1000 volts. MBR for operating voltages above 1000 Volt is 8 X OD per NEC 300.34.



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