



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

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:

1. **Conductor:** Bare, soft drawn, annealed, flexible, rope-lay stranded copper per ASTM B3/B172
2. **Separator Tape:** Non-conducting tape applied between the conductor and insulation to facilitate stripping
3. **Insulation:** Ethylene Propylene Diene Monomer (EPDM)
4. **Reinforcement Binder:** Reinforcing twine.
5. **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 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
- CSA C22.2 No. 96 Portable Power Cables
- MSHA Approved
- RoHS-2 (European Directive 2011/65/EU)

SAMPLE PRINT LEGEND:

SOUTHWIRE{R} ROYAL{R} XXX AWG (XX{mm²}) TYPE W PORTABLE POWER CABLE E172226 MASTER-DESIGN {UL} RHH/RHW-2 2000V 90{D}C DRY 90{D}C WET SUN RES -- LL90458 {CSA} TYPE W 2000V -40{D}C FT1 FT5 P-07-KA100009-MSHA





Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Jacket Color
	AWG/ Kcmil	No.	No.	inch	mil	mil	inch	lb/1000ft	
599664	8	1	168	0.145	60	75	0.433	132	BK
599718	6	1	273	0.190	60	95	0.522	192	BK
640807	4	1	427	0.235	60	95	0.572	255	BK
640810	2	1	259	0.290	60	95	0.666	352	BK
641392	1	1	259	0.300	80	95	0.714	432	BK
641395	1/0	1	259	0.379	80	95	0.759	514	BK
641398	2/0	1	324	0.400	80	95	0.820	614	BK
641388	3/0	1	418	0.470	80	105	0.864	757	BK
641402	4/0	1	532	0.530	80	95	0.901	894	BK
641405	250	1	608	0.605	95	95	1.011	1059	BK
641409	350	1	893	0.670	95	95	1.110	1411	BK
641412	500	1	1221	0.858	95	95	1.254	1898	BK

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	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance	Max Pull Tension	Min Bending Radius	Allowable Ampacity In Air 60°C	Allowable Ampacity In Air 75°C	Allowable Ampacity In Air 90°C
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	lb	inch	Amp	Amp	Amp
8	0.679	0.818	0.052		1.7	60	70	80
6	0.411	0.495	0.051		2.1	72	88	99
4	0.274	0.330	0.048		2.2	105	125	140
2	0.172	0.207	0.045		2.6	140	170	190
1	0.137	0.164	0.046		2.8	165	195	220
1/0	0.109	0.131	0.044		3.0	195	230	260
2/0	0.087	0.104	0.043		3.2	225	265	300
3/0	0.069	0.083	0.042		3.5	260	310	350
4/0	0.055	0.067	0.041		3.6	300	360	405
250	0.047	0.057	0.041		5.0	340	405	455
350	0.033	0.042	0.040		5.5	420	505	570
500	0.023	0.031	0.039		6.2	515	620	700

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

