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

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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	83	0.465	141	BK
599718	6	1	273	0.186	60	105	0.542	202	BK
640807	4	1	427	0.235	60	105	0.592	267	BK
640810	2	1	259	0.291	60	105	0.686	366	BK
641392	1	1	259	0.3	80	105	0.726	441	BK
641395	1/0	1	259	0.379	80	105	0.779	530	BK
641398	2/0	1	324	0.4	80	105	0.848	637	BK
641388	3/0	1	418	0.48	80	105	0.864	758	BK
641402	4/0	1	532	0.53	80	105	0.921	912	BK
641405	250	1	608	0.605	95	105	1.031	1079	BK
641409	350	1	893	0.67	95	105	1.13	1434	BK
641412	500	1	1221	0.858	95	105	1.274	1923	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	Max Pull Tension	Min Bending Radius	Allowable Ampacity At 60°C	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	lb	lb	inch	Amp	Amp	Amp
8	0.654	0.812	0.052	132	132	1.9	40	50	55
6	0.419	0.52	0.051	209	209	2.2	55	65	75
4	0.263	0.326	0.048	333	333	2.4	70	85	95
2	0.166	0.206	0.045	530	530	2.7	95	115	130
1	0.132	0.164	0.046	669	669	2.9	110	130	145
1/0	0.105	0.13	0.044	844	844	3.1	125	150	170
2/0	0.084	0.104	0.043	1064	1064	3.4	145	175	195
3/0	0.066	0.082	0.042	1342	1342	3.5	165	200	225
4/0	0.053	0.066	0.041	1692	1692	3.7	195	230	260
250	0.045	0.056	0.041	2000	2000	5.2	215	255	290
350	0.032	0.041	0.04	2800	2800	5.6	260	310	350
500	0.022	0.029	0.039	4000	4000	6.4	320	380	430

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

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