

# **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:**

- 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 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{mm<sup>2</sup>}) 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	
640807	4	1	427	0.235	60	95	0.572	255	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	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	inch	Amp	Amp	Amp
4	0.274	0.330	0.048	2.2	105	125	140

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

