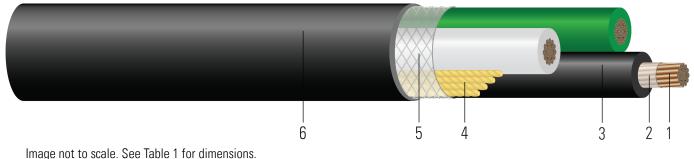


# 3/C CU 2000V EPDM/CPE Type W Industrial Grade Cable 90°C. MSHA Approved

Flexible Copper conductors, Ethylene Propylene Diene Monomer (EPDM) insulation, Single Layer Chlorinated Polyethylene (CPE) Jacket



# **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). Color coded black, white, green.
- 4. Fillers: Jute fillers applied as needed to round the cable core
- 5. Reinforcement Binder: Reinforcing binder with twine applied over the core
- 6. **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 Article NEC 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 perminant building wiring. Meets FT-5 Flame Test. cUL listing on select items only.

#### **SPECIFICATIONS:**

- ASTM B3 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
- 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.XXmm2) 3/C TYPE W PORTABLE POWER CABLE E172226 (UL) 2000V 90C DRY 90C WET SUN RES -- 156205 CSA TYPE W 2000V -40C FT1 FT5 P-07-KA100010-MSHA









## **Table 1 – Weights and Measurements**

| Stock<br>Number | Cond. Size    | Cond.<br>Number | Cond.<br>Strands | Diameter Over<br>Conductor | Insul.<br>Thickness | Jacket<br>Thickness | Approx.<br>OD | Approx.<br>Weight | Jacket<br>Color |
|-----------------|---------------|-----------------|------------------|----------------------------|---------------------|---------------------|---------------|-------------------|-----------------|
|                 | AWG/<br>Kcmil | No.             | No.              | inch                       | mil                 | mil                 | inch          | lb/1000ft         |                 |
| 571409          | 4             | 3               | 112              | 0.235                      | 60                  | 125                 | 1.170         | 881               | BK              |

All dimensions are nominal and subject to normal manufacturing tolerances

## Table 2 – Electrical and Engineering Data

| Cond.<br>Size | DC Resistance @ 25°C | AC Resistance @ 90°C | Inductive<br>Reactance | Min Bending<br>Radius | Allowable Ampacity In<br>Air 60°C | Allowable Ampacity In<br>Air 75°C | Allowable Ampacity In<br>Air 90°C |
|---------------|----------------------|----------------------|------------------------|-----------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| AWG/<br>Kcmil | Ω/1000ft             | Ω/1000ft             | Ω/1000ft               | inch                  | Amp                               | Amp                               | Amp                               |
| 4             | 0.274                | 0.330                | 0.048                  | 5.8                   | 84                                | 101                               | 114                               |

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







<sup>♦</sup> Cable marked with this symbol is a standard stock item

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.