



2/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



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 or B173
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
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 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. Not for use as permanent building wiring. Meets FT-1 and FT-5 Flame Tests. 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
- MSHA Approved
- RoHS-2 (European Directive 2011/65/EU)

SAMPLE PRINT LEGEND:

SOUTHWIRE(R) XX AWG (XXXmm²) 2/C TYPE W PORTABLE POWER CABLE E172226 (UL) 2000V 90C DRY 90C WET SUN RES OIL RES - P-136-35-MSHA





Table 1 – Weights and Measurements

| Cond. Size AWG/Kcmil | Cond. Number No. | Cond. Strands No. | Diameter Over Conductor inch | Insul. Thickness mil | Jacket Thickness mil | Approx. OD inch | Approx. Weight lb/1000ft | Jacket Color |
|-------------------------|---------------------|----------------------|---------------------------------|-------------------------|-------------------------|--------------------|-----------------------------|--------------|
| 2 | 2 | 168 | 0.290 | 60 | 145 | 1.130 | 744 | 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 AWG/ Kcmil | DC Resistance @ 25°C Ω/1000ft | AC Resistance @ 90°C Ω/1000ft | Inductive Reactance Ω/1000ft | Min Bending Radius inch | Allowable Ampacity In Air 60°C Amp | Allowable Ampacity In Air 75°C Amp | Allowable Ampacity In Air 90°C Amp |
|-----------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------|--|--|--|
| 2 | 0.172 | 0.207 | 0.045 | 5.6 | 128 | 152 | 174 |

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

