

3/C CU 2000V EPDM/CPE Type W Industrial Grade Cable 90°C

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
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:** Paper fillers applied as needed to round the cable core
5. **Tape:** Reinforcing tape applied over the cabled core for improved mechanical integrity and ease of stripping
6. **Reinforcement Binder:** Reinforcing twine applied over the tapped core
7. **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 permanent building wiring. Meets FT-5 Flame Test. cUL listing on select items only.

SPECIFICATIONS:

- ASTM B3 Standard Specification for 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
- RoHS-2 (European Directive 2011/65/EU)

SAMPLE PRINT LEGEND:

AWG 3/C TYPE W PORTABLE POWER CABLE 90°C WET OR DRY 2000V OIL AND SUN RES (UL) P-136-35-MSHA AIWTM c (UL) FT1/FT5 (-40°C)



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Table 1 – Weights and Measurements

| Stock Number | Cond. Size | Cond. Number | Cond. Strands | Diameter Over Conductor | Insul. Thickness | Diameter Over Insulation | Approx. OD | Approx. Weight |
|--------------|---------------|--------------|---------------|-------------------------|------------------|--------------------------|------------|----------------|
| | AWG/ Kcmil | No. | No. | inch | mil | inch | inch | lb/1000ft |
| 570256 | 6 | 3 | 65 | 0.184 | 60 | 0.33 | 1.03 | 600 |

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

| Stock Number | Cond. Size | Cond. Number | 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 | No. | Ω/1000ft | Ω/1000ft | MΩ/1000ft | inch | Amp | Amp | Amp |
| 570256 | 6 | 3 | 0.415 | 0.529 | 0.038 | 6 | 63 | 77 | 87 |

* Inductive reactance based three current-carrying conductors.

† Ampacity based on NEC 400.5(A)(2) and is for a single isolated cable in air operated at an ambient temperature of 30°C connected to utilization equipment with three current-carrying conductors.



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