



## Specification Sheet

**BWC Part Number #: BWC-12-03SOOW**

### 12 AWG SOOW 600V Portable Power Cable

#### Application

This portable power cable is designed for use with portable tools, equipment, small motors, and associated machinery. It's also suitable for industrial equipment, marine dockside power, appliances, and situations where the cable is exposed to oils, solvents, flame, and moisture. The cable is rated for applications up to 600 volts and for temperatures ranging from -40°C to +90°C.

#### Construction

- **Conductor:** Flexible stranded bare copper, compliant with ASTM B-3 and UL 62.
- **Insulation:** Premium grade, color-coded Ethylene Propylene Diene Monomer (EPDM) or Ethylene Propylene Rubber (EPR) compound.
- **Jacket:** The overall jacket is black Chlorinated Polyethylene (CPE), which is resistant to oil, solvents, ozone, weather, sunlight, and water. Other colors are available upon request.

#### Standards

- UL 62 and CSA C22.2 No. 49.
- Flame test meets FT2 and MSHA requirements.
- OSHA accepted.
- Permitted for use in specific applications under NEC Article 700.
- Permitted for use in Hazardous Locations (Classes I, II, III, Divisions 1 & 2) per NFPA 70.

#### Color Code

The conductor color codes are in accordance with ICEA S-58-679, Method 1, Table 1.

- **2 Conductors:** Black, White
- **3 Conductors:** Black, White, Green
- **4 Conductors:** Black, White, Red, Green
- For cables with more than 5 cores, a detailed color sequence with tracers is used, which repeats as necessary for constructions over 21 conductors.

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| PART NUMBER   | COND SIZE (AWG) | NO. OF COND | COND. STRANDING (NO.AWG) | NOM. INSUL. THICKNESS (INCH/MM) | NOM. JACKET THICKNESS (INCH/MM) | NOM. OVERALL DIAMETER (INCH/MM) | NET WEIGHT (LBS/KFT) | AMPACTIY ** 30C AMBIENT |
|---------------|-----------------|-------------|--------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------|-------------------------|
| BWC-12-02SOOW | 12              | 2           | 65/30                    | .045/1.14                       | .095/2.41                       | .570/14.48                      | 184                  | 25                      |
| BWC-12-03SOOW | 12              | 3           | 65/30                    | .045/1.14                       | .095/2.41                       | .590/14.99                      | 217                  | 25                      |
| BWC-12-04SOOW | 12              | 4           | 65/30                    | .045/1.14                       | .095/2.41                       | .640/16.26                      | 261                  | 20                      |
| BWC-12-05SOOW | 12              | 5           | 65/30                    | .045/1.14                       | .095/2.41                       | .70/17.78                       | 319                  | 16                      |
| BWC-12-06SOOW | 12              | 6           | 65/30                    | .045/1.14                       | .095/2.41                       | .740/18.80                      | 344                  | 16                      |
| BWC-12-07SOOW | 12              | 7           | 65/30                    | .045/1.14                       | .095/2.41                       | .740/18.80                      | 358                  | 16                      |
| BWC-12-08SOOW | 12              | 8           | 65/30                    | .045/1.14                       | .095/2.41                       | .80/20.32                       | 408                  | 14                      |
| BWC-12-09SOOW | 12              | 9           | 65/30                    | .045/1.14                       | .095/2.41                       | .920/23.37                      | 461                  | 14                      |
| BWC-12-10SOOW | 12              | 10          | 65/30                    | .045/1.14                       | .110/2.79                       | .950/24.13                      | 519                  | 14                      |
| BWC-12-12SOOW | 12              | 12          | 65/30                    | .045/1.14                       | .110/2.79                       | .980/24.89                      | 591                  | 10                      |
| BWC-12-14SOOW | 12              | 14          | 65/30                    | .045/1.14                       | .110/2.79                       | 1.030/26.16                     | 668                  | 10                      |
| BWC-12-16SOOW | 12              | 16          | 65/30                    | .045/1.14                       | .110/2.79                       | 1.080/27.43                     | 755                  | 10                      |
| BWC-12-20SOOW | 12              | 20          | 65/30                    | .045/1.14                       | .125/3.18                       | 1.220/30.99                     | 971                  | 10                      |
| BWC-12-24SOOW | 12              | 24          | 65/30                    | .045/1.14                       | .125/3.18                       | 1.350/34.29                     | 1106                 | 9                       |
| BWC-12-26SOOW | 12              | 26          | 65/30                    | .045/1.14                       | .125/3.18                       | 1.380/35.05                     | 1180                 | 9                       |
| BWC-12-30SOOW | 12              | 30          | 65/30                    | .045/1.14                       | .125/3.18                       | 1.430/36.32                     | 1327                 | 9                       |
| BWC-12-37SOOW | 12              | 37          | 65/30                    | .045/1.14                       | .125/3.18                       | 1.530/38.86                     | 1588                 | 8                       |
| BWC-12-44SOOW | 12              | 44          | 65/30                    | .045/1.14                       | .125/3.18                       | 1.720/43.69                     | 1868                 | 7                       |

\*Table data sourced from. All values are nominal and subject to correction.

\*\*Ampacity values shown are for current-carrying conductors. A grounding conductor, or one which carries only the unbalanced current from other conductors, is not counted in determining current-carrying capacity



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## Specification Sheet

ICEA S-58-679, Method 1, Table 1 (above 5 cores/cables)

| CORE # | COLOR  | TRACER | CORE # | COLOR  | TRACER | CORE # | COLOR  | TRACER |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1      | BLACK  | -      | 8      | RED    | BLACK  | 15     | BLUE   | WHITE  |
| 2      | WHITE  | -      | 9      | GREEN  | BLACK  | 16     | BLACK  | RED    |
| 3      | RED    | -      | 10     | ORANGE | BLACK  | 17     | WHITE  | RED    |
| 4      | GREEN  | -      | 11     | BLUE   | BLACK  | 18     | ORANGE | RED    |
| 5      | ORANGE | -      | 12     | BLACK  | WHITE  | 19     | BLUE   | RED    |
| 6      | BLUE   | -      | 13     | RED    | WHITE  | 20     | RED    | GREEN  |
| 7      | WHITE  | BLACK  | 14     | GREEN  | WHITE  | 21     | ORANGE | GREEN  |

**ALL SPECIFIED PARAMETERS WITHOUT A TOLERANCE ARE NOMINAL AND SUBJECT TO VERIFICATION. BEST WIRE IS NOT RESPONSIBLE FOR UNKNOWN PERFORMANCE ATTRIBUTES THAT WERE NOT MADE KNOWN TO BEST WIRE AT THE TIME OF DESIGN.**

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