

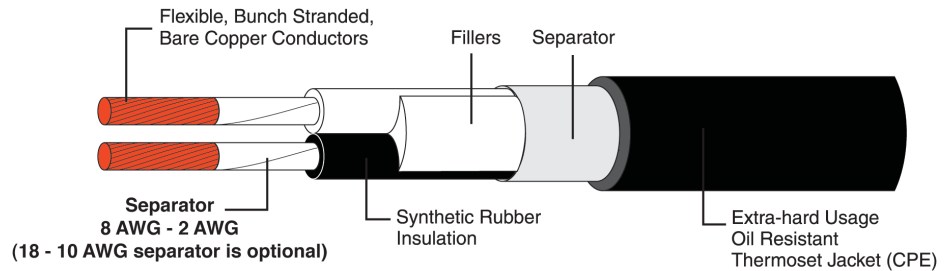
# TYPE SOOW & SJ/SJOOW (BLACK JACKET)



Synthetic Rubber Insulation with Oil-Resistant Thermoset Jacket • SOOW 90°C (600V) • SJ/SJOOW 90°C (300V) • RoHS

## FEATURES

- UL listed (file no. E7362) as SOOW & SJ/SJOOW
- CSA certified (file no. LL8825) as SOOW & SJOOW
- OSHA acceptable
- MSHA listed
- Sunlight, water, and weather resistant per UL & CSA
- Resistant to oil, acid, impact, abrasion, water, flame and high temperature
- Passes MSHA flame test (P-136-MSHA)
- Maintains flexibility
- ICEA where applicable
- SOOW can also be used for special applications as outlined in NFPA 70 (N.E.C.) paragraph 501.10(B)(2) CL.1 Div. 2 locations and paragraph 501.140(B) CL.1 Div. 1 and 2.
- **Water Resistant - Passes the UL 14 day permittivity and stability factor tests in water.**



## APPLICATIONS

### Type SOOW 90°C

Designed for **extra hard usage** with industrial equipment, heavy tools, battery chargers, portable lights and power extensions. SOOW is sunlight, water, oil and weather resistant and suitable for outdoor applications.

### Type SJOOW 90°C

Designed for **hard usage** with portable tools, small motors and power extensions. Type SJOOW is sunlight, water, oil and weather resistant and suitable for outdoor applications.

## CONSTRUCTION

### Conductors

Bare, annealed copper per ASTM B-3 Flexible, bunch-stranded per UL-62 sizes 18 - 8 AWG Rope Lay sizes 6 - 2 AWG

### Separator (when used)

A paper tape is applied between the conductor and insulation to facilitate stripping.

### Insulation

Color coded synthetic rubber oil and water resistant per UL-62

### Cabling

Conductors are assembled round with wax paper fillers as needed. A separator is applied over the assembly.

### Jacket

Oil resistant Thermoset (black CPE) per UL-62

### Color Coding

**2/C:** Black, White

**3/C:** Black, White, Green\*

**4/C:** Black, White, Red, Green\*

**5/C:** Black, White, Red, Green\*, Orange

\*Green conductor is used for grounding purposes only

### Cable Identification

Surface print on jacket (listed types):

Example: "P-136-29-MSHA 14AWG 3/C -40°C SOOW 90°C 600V water resistant (UL)—A.I.W. Corp.—CSA -40°C FT1—RoHS"

### Temperature Range

Type SOOW and SJOOW: 90°C to -40°C

Meets or exceeds all UL requirements for S, SO, SOO, SJ, SJO and SJOOW.

| PART NUMBER   | CONDUCTORS |     |           | NOMINALS (INCHES) |        |       | AMPS <sup>1</sup> | STANDARD** LENGTHS PUT-UP | SHIP WT. LBS./M FT. |
|---|------------|-----|-----------|-------------------|--------|-------|-------------------|---------------------------|---------------------|
|   | NO.        | AWG | STRAND    | INSUL.            | JACKET | O.D.  |                   |                           |                     |
| <b>90°C UL/CSA TYPE SOOW • 600V</b>                   |            |     |           |                   |        |       |                   |                           |                     |
| 20694   | 2          | 18  | 16x30     | .030              | .060   | .344  | 10                | 1 x 250' spl/ctn.         | 71                  |
| 20696   | 3          | 18  | 16x30     | .030              | .060   | .364  | 10                | 1 x 250' spl/ctn.         | 81                  |
| 20698   | 4          | 18  | 16x30     | .030              | .060   | .389  | 7                 | 1 x 250' spl/ctn.         | 95                  |
| 20701   | 2          | 16  | 26x30     | .030              | .060   | .369  | 13                | 1 x 250' spl/ctn.         | 80                  |
| 20702   | 3          | 16  | 26x30     | .030              | .060   | .389  | 13                | 1 x 250' spl/ctn.         | 98                  |
| 20709   | 4          | 16  | 26x30     | .030              | .060   | .414  | 10                | 1 x 250' spl/ctn.         | 115                 |
| 20710   | 2          | 14  | 41x30     | .045              | .080   | .500  | 18                | 1 x 250' coil/ctn.        | 151                 |
| 20711   | 3          | 14  | 41x30     | .045              | .080   | .525  | 18                | 1 x 250' coil/ctn.        | 174                 |
| 20716   | 4          | 14  | 41x30     | .045              | .080   | .565  | 15                | 1 x 250' coil/ctn.        | 210                 |
| 20719   | 2          | 12  | 65x30     | .045              | .095   | .570  | 25                | 1 x 250' coil/ctn.        | 198                 |
| 20720   | 3          | 12  | 65x30     | .045              | .095   | .595  | 25                | 1 x 250' coil/ctn.        | 232                 |
| 20726   | 4          | 12  | 65x30     | .045              | .095   | .645  | 20                | 1 x 250' coil/ctn.        | 281                 |
| 20730   | 2          | 10  | 104x30    | .045              | .095   | .620  | 30                | 1 x 250' coil/ctn.        | 247                 |
| 20731   | 3          | 10  | 104x30    | .045              | .095   | .655  | 30                | 1 x 250' coil/ctn.        | 301                 |
| 20734   | 4          | 10  | 104x30    | .045              | .095   | .705  | 25                | 1 x 250' coil/ctn.        | 363                 |
| <b>90°C UL/CSA TYPE SOOW POWER SIZE CABLES • 600V</b> |            |     |           |                   |        |       |                   |                           |                     |
| 33230   | 3          | 8   | 71x.015   | .060              | .110   | .835  | 40                | 250'/1000' rls            | 477                 |
| 33231   | 4          | 8   | 71x.015   | .060              | .125   | .930  | 35                | 250'/1000' rls            | 616                 |
| 39259   | 5          | 8   | 71x.015   | .060              | .125   | 1.008 | 35                | 250'/1000' rls            | 727                 |
| 33232   | 3          | 6   | 133x.0142 | .060              | .125   | .975  | 55                | 250'/1000' rls            | 670                 |
| 33233   | 4          | 6   | 133x.0142 | .060              | .140   | 1.055 | 45                | 250'/1000' rls            | 837                 |
| 39299   | 5          | 6   | 133x.0142 | .060              | .140   | 1.190 | 45                | 1000'/5000' rls           | 1038                |
| 33234   | 3          | 4   | 133x.0179 | .060              | .140   | 1.135 | 70                | 250'/1000' rls            | 956                 |
| 33228   | 4          | 4   | 133x.0179 | .060              | .155   | 1.255 | 60                | 250'/1000' rls            | 1225                |
| 35526   | 5          | 4   | 133x.0179 | .060              | .155   | 1.380 | 60                | 250'/1000' rls            | 1424                |
| 39298   | 3          | 2   | 133x.0223 | .060              | .155   | 1.305 | 95                | 1000' rls                 | 1310                |
| 33229   | 4          | 2   | 133x.0223 | .060              | .170   | 1.455 | 80                | 250'/1000' rls            | 1712                |
| 39300   | 5          | 2   | 133x.0223 | .060              | .170   | 1.500 | 80                | 1000' rls                 | 2078                |
| <b>90°C UL/CSA TYPE SJ/SJOOW • 300V</b>               |            |     |           |                   |        |       |                   |                           |                     |
| 20756   | 2          | 18  | 16x30     | .030              | .030   | .283  | 10                | 4 x 250' spls/ctn.        | 48                  |
| 20758   | 3          | 18  | 16x30     | .030              | .030   | .303  | 10                | 4 x 250' sps/ctn.         | 59                  |
| 20764   | 4          | 18  | 16x30     | .030              | .030   | .329  | 7                 | 1 x 250' spl/ctn.         | 72                  |
| 20765   | 2          | 16  | 26x30     | .030              | .030   | .308  | 13                | 4 x 250' spls/ctn.        | 61                  |
| 20767   | 3          | 16  | 26x30     | .030              | .030   | .329  | 13                | 1 x 250' spl/ctn.         | 75                  |
| 20771   | 4          | 16  | 26x30     | .030              | .030   | .354  | 10                | 1 x 250' spl/ctn.         | 92                  |
| 20772   | 2          | 14  | 41x30     | .030              | .030   | .339  | 18                | 1 x 250' spl/ctn.         | 79                  |
| 20775   | 3          | 14  | 41x30     | .030              | .030   | .365  | 18                | 1 x 250' spl/ctn.         | 98                  |
| 20778   | 4          | 14  | 41x30     | .030              | .030   | .394  | 15                | 1 x 250' spl/ctn.         | 121                 |
| 20779   | 2          | 12  | 65x30     | .030              | .045   | .409  | 25                | 1 x 250' spl/ctn.         | 123                 |
| 20780   | 3          | 12  | 65x30     | .030              | .045   | .430  | 25                | 1 x 250' spl/ctn.         | 144                 |
| 20782   | 4          | 12  | 65x30     | .030              | .045   | .470  | 20                | 1 x 250' spl/ctn.         | 180                 |
| 20783   | 2          | 10  | 104x30    | .045              | .060   | .544  | 30                | 1 x 250' coil ctn.        | 187                 |
| 20784   | 3          | 10  | 104x30    | .045              | .060   | .570  | 30                | 1 x 250' coil ctn.        | 246                 |
| 20786   | 4          | 10  | 104x30    | .045              | .060   | .630  | 25                | 1 x 250' coil ctn.        | 309                 |

<sup>1</sup>Ampacities (Amps per conductor) are based on 30°C ambient temperature in air per the 2008 NEC, Table 400.5(A). Ampacities for 3/C and 4/C cords assume 1 conductor is used as a ground or neutral and does not carry current. Ampacities for 5/C cords assume 2 conductors are used as ground and neutral and do not carry current.

\*\*Long length reels available upon request. Consult local sales office.

NOTES: Also may be manufactured as 105°C/-50°C. SOOW now available with yellow jacket. Consult factory for minimum order requirements.