600V ROYAL® Shielded SOOW with Black Jacket 90°C. Silicone-Free

Rated -40°C to 90°C. Class K copper conductor. Heat, moisture and oil resistant EPDM rubber insulation. Heat, moisture and oil resistant flexible CPE jacket.

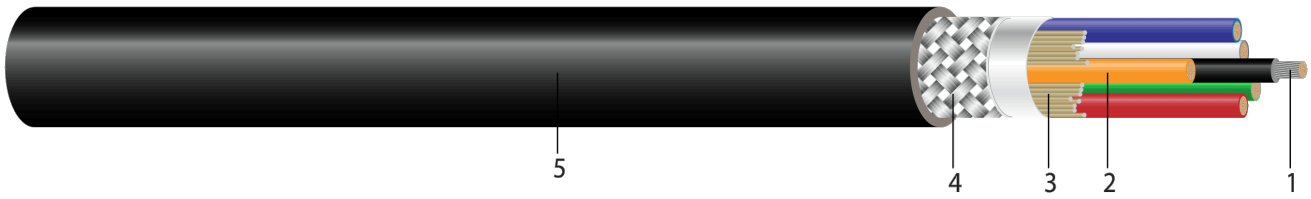

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Tinned flexible stranded Class K copper conductors
2. **Insulation:** Heat, moisture and oil resistant EPDM
3. **Filler:** Non-wicking wax paper fillers, with a tissue-paper separator wrapped around the assembly
4. **Shield:** Tinned CU braid shielding
5. **Jacket:** Heat, moisture and oil resistant flexible CPE jacket

APPLICATIONS AND FEATURES:

Southwire Type SOOW Flexible Cords are permitted for use as specified by Article 400 and related articles of the 2014 National Electrical Code. Southwire Type SOOW Flexible Cords are designed for extra hard usage on industrial equipment, heavy tools, battery chargers, portable lights welding leads, marine dockside power, power extensions and mining applications.

SPECIFICATIONS:

- UL 62 Flexible Cords and Cables
- CSA C22.2 No. 49 Flexible Cords and Cables
- ICEA S-58-679 Control Cable Conductor Identification Method 1 Table 1
- MSHA flame test - P07-KA070018-1MSHA
- Passes CSA FT2 Flame Test
- RoHS-3 Complies with European Directive 2015/863
- NEC Article 400 Flexible Cords, Cables and Fixture Wire
- Federal Specification J-C-580B
- OSHA Acceptable

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity	DC Resistance	Insul. Color	Jacket Color
	AWG/ Kcmil	No.	No.	mil	mil	inch	lb/1000ft	Amp	Ω/1000ft		
576078	18	10	16	30	85	0.64	262	4	6.659	SEE TABLE	BK

All dimensions are nominal and subject to normal manufacturing tolerances
◊ 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.

Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity *	DC Resistance	Insul. Color	Jacket Color
	AWG/ Kcmil	No.	No.	mm	mm	mm	kg/km	Amp	Ω/km		
576078	18	10	16	0.76	2.16	16.26	390	4	21.85	SEE TABLE	BK

* Ampacities are based on TABLE 400.5(A)(1) of the 2023 National Electrical Code and CEC Table 12.

Color Table

Stock Number	Cond. Size	Cond. Number	Insulation Colors
576078	18	12	BK, WE, RD, GN, OE, BE, WE/BK, RD/BK, GN/BK, OE/BK
570035	18	12	BK, WE, RD, GN, OE, BE, WE/BK, RD/BK, GN/BK, OE/BK, BE/BK, BK/WE
575066	18	16	BK, WE, RD, GN, OE, BE, WE/BK, RD/BK, GN/BK, OE/BK, BE/BK, BK/WE, GE/WE, RD/WE, BE/WE, BK/RD
570012	16	12	BK, WE, RD, GN, OE, BE, WE/BK, RD/BK, GN/BK, OE/BK, BE/BK, BK/WE
570013	16	16	BK, WE, RD, GN, OE, BE, WE/BK, RD/BK, GN/BK, OE/BK, BE/BK, BK/WE, GE/WE, RD/WE, BE/WE, BK/RD

Copyright © 2026 Southwire Company, LLC. All Rights Reserved