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.

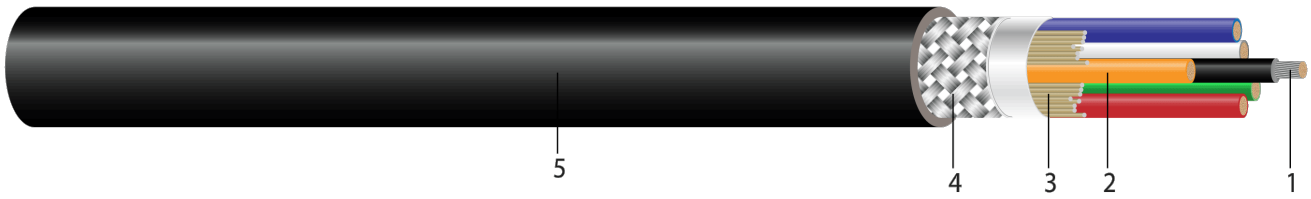


Image not to scale. See Table 1 for dimensions.

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

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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		
570040	18	2	16	30	60	0.372	89	10	6.659	BK,WE	BK
570046	18	3	16	30	65	0.405	109	7	6.659	BK,WE,GN	BK
570047	18	4	16	30	65	0.427	126	6	6.659	BK,WE,RD,GN	BK
570050	18	6	16	30	85	0.531	182	6	6.659	BK,WE,RD,GN,OE,BE	BK
570053	18	8	16	30	85	0.565	214	5	6.659	BK,WE,RD,GN,OE,BE,WE/ BK,RD/BK	BK
576078	18	10	16	30	85	0.64	262	4	6.659	SEE TABLE	BK
570035	18	12	16	30	85	0.657	287	4	6.659	SEE TABLE	BK
571439	16	2	26	30	65	0.403	117	13	4.181	BK,WE	BK
571690	16	3	26	30	65	0.42	122	10	4.181	BK,WE,GN	BK
570027	16	4	26	30	65	0.44	148	8	4.181	BK,WE,RD,GN	BK
570031	16	8	26	30	80	0.592	249	7	4.181	BK,WE,RD,GN,OE,BE,WE/ BK,RD/BK	BK
570012	16	12	26	30	100	0.706	367	5	4.181	SEE TABLE	BK
570013	16	16	26	30	95	0.759	434	5	4.181	SEE TABLE	BK
587862	14	2	41	45	80	0.515	173	18	2.621	BK,WE	BK
571277	14	3	41	45	80	0.565	222	15	2.621	BK,WE,GN	BK
570008	14	4	41	45	80	0.609	266	12	2.621	BK,WE,RD,GN	BK
571316	12	2	65	45	95	0.6	229	25	1.652	BK,WE	BK
571400	12	3	65	45	100	0.63	273	20	1.652	BK,WE,GN	BK
569989	12	4	65	45	100	0.677	331	16	1.652	BK,WE,RD,GN	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.

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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		
570040	18	2	16	0.76	1.52	9.45	132	10	21.85	BK,WE	BK
570046	18	3	16	0.76	1.65	10.29	162	7	21.85	BK,WE,GN	BK
570047	18	4	16	0.76	1.65	10.85	188	6	21.85	BK,WE,RD,GN	BK
570050	18	6	16	0.76	2.16	13.49	271	6	21.85	BK,WE,RD,GN,OE,BE	BK
570053	18	8	16	0.76	2.16	14.35	318	5	21.85	BK,WE,RD,GN,OE,BE,WE/ BK,RD/BK	BK
576078	18	10	16	0.76	2.16	16.26	390	4	21.85	SEE TABLE	BK
570035	18	12	16	0.76	2.16	16.69	427	4	21.85	SEE TABLE	BK
571439	16	2	26	0.76	1.65	10.24	174	13	13.72	BK,WE	BK
571690	16	3	26	0.76	1.65	10.67	182	10	13.72	BK,WE,GN	BK
570027	16	4	26	0.76	1.65	11.18	220	8	13.72	BK,WE,RD,GN	BK
570031	16	8	26	0.76	2.03	15.04	371	7	13.72	BK,WE,RD,GN,OE,BE,WE/ BK,RD/BK	BK
570012	16	12	26	0.76	2.54	17.93	546	5	13.72	SEE TABLE	BK
570013	16	16	26	0.76	2.41	19.28	646	5	13.72	SEE TABLE	BK
587862	14	2	41	1.14	2.03	13.08	257	18	8.60	BK,WE	BK
571277	14	3	41	1.14	2.03	14.35	330	15	8.60	BK,WE,GN	BK
570008	14	4	41	1.14	2.03	15.47	396	12	8.60	BK,WE,RD,GN	BK
571316	12	2	65	1.14	2.41	15.24	341	25	5.42	BK,WE	BK
571400	12	3	65	1.14	2.54	16.00	406	20	5.42	BK,WE,GN	BK
569989	12	4	65	1.14	2.54	17.20	493	16	5.42	BK,WE,RD,GN	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

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