



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





Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity	Insul. Color	Jacket Color
	AWG/Kcmil	No.	No.	mil	mil	inch	lb/1000ft	Amp		
570040	18	2	16	30	60	0.371	91	10	BK,WE	BK
570046	18	3	16	30	60	0.388	102	7	BK,WE,GN	BK
570047	18	4	16	30	60	0.419	124	5	BK,WE,RD,GN	BK
571413	18	5	16	30	80	0.494	173	5	BK,WE,RD,GN,OE	BK
570050	18	6	16	30	80	0.519	174	5	BK,WE,RD,GN,OE,BE	BK
570053	18	8	16	30	80	0.554	204	4	BK,WE,RD,GN,OE,BE,WE/ BK,RD/BK	BK
576078	18	10	16	30	80	0.641	253	3	See Table	BK
570035	18	12	16	30	80	0.651	276	3	See Table	BK
575066	18	16	16	30	90	0.756	389	3	See Table	BK
571439	16	2	26	30	55	0.385	116	13	BK,WE	BK
571690	16	3	26	30	60	0.417	123	10	BK,WE,GN	BK
570027	16	4	26	30	60	0.445	146	8	BK,WE,RD,GN	BK
570031	16	8	26	30	80	0.594	251	7	BK,WE,RD,GN,OE,BE,WE/ BK,RD/BK	BK
570012	16	12	26	30	95	0.729	363	5	See Table	BK
570013	16	16	26	30	95	0.793	442	5	See Table	BK
587862	14	2	41	45	80	0.535	174	18	BK,WE	BK
571277	14	3	41	45	80	0.565	210	15	BK,WE,GN	BK
570008	14	4	41	45	80	0.609	251	12	BK,WE,RD,GN	BK
571316	12	2	65	45	95	0.600	228	25	BK,WE	BK
571400	12	3	65	45	100	0.629	268	20	BK,WE,GN	BK
569989	12	4	65	45	100	0.677	317	16	BK,WE,RD,GN	BK
585957	10	3	104	45	95	0.685	321	25	BK,WE,GN	BK

All dimensions are nominal and subject to normal manufacturing tolerances
 ◇ Cable marked with this symbol is a standard stock item




Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Ampacity *	Insul. Color	Jacket Color
	AWG/Kcmil	No.	No.	mm	mm	mm	kg/km	Amp		
570040	18	2	16	0.76	1.52	9.42	135	10	BK,WE	BK
570046	18	3	16	0.76	1.52	9.86	152	7	BK,WE,GN	BK
570047	18	4	16	0.76	1.52	10.64	185	5	BK,WE,RD,GN	BK
571413	18	5	16	0.76	2.03	12.55	257	5	BK,WE,RD,GN,OE	BK
570050	18	6	16	0.76	2.03	13.18	259	5	BK,WE,RD,GN,OE,BE	BK
570053	18	8	16	0.76	2.03	14.07	304	4	BK,WE,RD,GN,OE,BE,WE/ BK,RD/BK	BK
576078	18	10	16	0.76	2.03	16.28	377	3	See Table	BK
570035	18	12	16	0.76	2.03	16.54	411	3	See Table	BK
575066	18	16	16	0.76	2.29	19.20	579	3	See Table	BK
571439	16	2	26	0.76	1.40	9.78	173	13	BK,WE	BK
571690	16	3	26	0.76	1.52	10.59	183	10	BK,WE,GN	BK
570027	16	4	26	0.76	1.52	11.30	217	8	BK,WE,RD,GN	BK
570031	16	8	26	0.76	2.03	15.09	374	7	BK,WE,RD,GN,OE,BE,WE/ BK,RD/BK	BK
570012	16	12	26	0.76	2.41	18.52	540	5	See Table	BK
570013	16	16	26	0.76	2.41	20.14	658	5	See Table	BK
587862	14	2	41	1.14	2.03	13.59	259	18	BK,WE	BK
571277	14	3	41	1.14	2.03	14.35	313	15	BK,WE,GN	BK
570008	14	4	41	1.14	2.03	15.47	374	12	BK,WE,RD,GN	BK
571316	12	2	65	1.14	2.41	15.24	339	25	BK,WE	BK
571400	12	3	65	1.14	2.54	15.98	399	20	BK,WE,GN	BK
569989	12	4	65	1.14	2.54	17.20	472	16	BK,WE,RD,GN	BK
585957	10	3	104	1.14	2.41	17.40	478	25	BK,WE,GN	BK

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

