

# ROYAL® Type SOOW

90°C, 600 Volts. Flexible Stranding. Water Resistant 60°C.  
 Black Jacket. Rated -40°C to 90°C. RoHS Compliant.  
 UL Listed and CSA Certified for Indoor and Outdoor Use.  
 18 AWG - 10 AWG - Multi-conductor Shielded



## APPLICATIONS

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
- CSA Standard 22.2 No. 49
- MSHA flame resistance for Mining Applications - P07-KA070018-1MSHA
- FT2 Flame Test
- Federal Specification J-C-580B
- ICEA Method 1, Table 1 Color Code
- NEC Article 400
- OSHA acceptable
- RoHS

## CONSTRUCTION

Southwire Type SOOW Cable is manufactured using tinned flexible stranded Class K conductors, and heat, moisture and oil resistant EPDM rubber insulation. The insulated conductors are cabled with non-wicking wax paper fillers, with a tissue-paper separator wrapped around the assembly to promote easier removal of the jacket. A heat, moisture and oil resistant flexible CPE jacket is extruded over the assembly to complete the construction. Sizes 18 AWG through 10 AWG fully annealed stranded tinned copper per ASTM B-174. Some sizes may be subject to minimum order quantity.

# Shielded SOOW Cable

NO. OF CONDS.	18 AWG (ES15616) (16/#30 STRANDING)			16 AWG (ES15618) (26/#30 STRANDING)		
	JACKET			JACKET		
	MIN. AVG. WALL (MILS)	APPROX. DIAM. (IN.)	AIW PART NO.	MIN. AVG. WALL (MILS)	APPROX. DIAM. (IN.)	AIW (SW)PART NO.
2	60	.375	35134	60	.400	35137
3	60	.390	35187	60	.415	35154
4	60	.405	35135	60	.450	35138
5	80	.480	35436	80	.530	---
6	80	.495	35136	80	.550	35246
7	80	.520	35773	80	.560	---
8	80	.535	35186	80	.590	35139
10	80	.585	35368	80	.660	---
12	80	.615	35474	95	.710	35245 (57-00-12-XX)
16	95	.740	67324	95	.790	35437
20	95	.790	---	95	.850	---

NO. OF CONDS.	14 AWG (ES15718) (41/#30 STRANDING)			12 AWG (ES15619) (65/#30 STRANDING)			10 AWG (104/#30 STRANDING)	
	JACKET			JACKET			JACKET	
	WALL (MILS)	APPROX. DIAM. (IN.)	AIW PART NO.	WALL (MILS)	APPROX. DIAM. (IN.)	AIW (SW) PART NO.	WALL (MILS)	APPROX. DIAM. (IN.)
2	80	.530	35524	95	.595	67540 (57-13-16-XX)	---	---
3	80	.545	35525	95	.625	35140	95	.660
4	80	.590	35488	95	.675	35247	95	.710
5	95	.680	40379	95	.735	---	---	---
6	95	.720	---	95	.780	---	---	---
7	95	.720	---	95	.780	---	---	---
8	95	.770	---	95	.835	---	---	---
12	95	.925	40211					

# Shielded SOOW Cable

COND. NO.	BASE COLOR	SPIRAL STRIPE
1	BLACK	---
2	WHITE	---
3*	RED	---
4	GREEN	---
5	ORANGE	---
6	BLUE	---
7	WHITE	BLACK
8	RED	BLACK
9	GREEN	BLACK
10	ORANGE	BLACK
11	BLUE	BLACK
12	BLACK	WHITE
13	RED	WHITE
14	GREEN	WHITE
15	BLUE	WHITE
16	BLACK	RED
17	WHITE	RED
18	ORANGE	RED
19	BLUE	RED
20	RED	GREEN