

18 AWG SOOW 600V Portable Power Cable 90°C



APPLICATION:

Portable tools, equipment, small motors and associated machinery, appliances, equipment exposed to oils, solvents, flame, moisture and other electrical equipment where flexibility and durability are required. For applications up to 600 volts and for temperatures of -40°C to +90°C.

CONDUCTORS:

- Flexible stranded bare copper in accordance with ASTM B-3 and UL 62

SEPARATOR:

- Polyester tape under jacket (above 5 cores cables)

INSULATION:

- Premium grade color coded Ethylene Propylene Diene Monomer (EPDM) insulation or Ethylene Propylene Rubber (EPR) compound class 3, comply with Table 8 of UL 62

JACKET:

- Overall jacket of black Chlorinated Polyethylene (CPE), which is oil, solvents, ozone, weather, sunlight, and water resistant. CPE compound Class 1.4 90°C comply with Table 11 of UL 62
- Other colors available on request

STANDARDS:

- UL 62
- CSA C22.2 No. 49
- Flame test meets FT2, and MSHA
- OSHA accepted
- NEC Article 700 permitted use for specific applications
- NFPA 70 permitted use in Hazardous Locations Classes I, II, III, Divisions 1 & 2 as outlined in Articles 501, 502, 503 section 140

COLOR CODE:

ICEA S-58-679, Method 1, Table 1

No. of Conductors	Color
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green

ICEA S-58-679, Method 1, Table 1 (above 5 cores/cables)

Core #	Color	Tracer	Core #	Color	Tracer	Core #	Color	Tracer
1	Black	--	8	Red	Black	15	Blue	White
2	White	--	9	Green	Black	16	Black	Red
3	Red	--	10	Orange	Black	17	White	Red
4	Green	--	11	Blue	Black	18	Orange	Red
5	Orange	--	12	Black	White	19	Blue	Red
6	Blue	--	13	Red	White	20	Red	Green
7	White	Black	14	Green	White	21	Orange	Green

*For more than 21 conductors the color sequence is repeated as necessary



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Part Number	Conductor Size	No. of Conductors	Conductor Stranding	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal Overall Diameter		Weight lbs/kft	Ampacity** 30°C Ambient
	AWG		No./AWG	Inches	mm	Inches	mm	Inches	mm		
18-02SOOW	18	2	16/30	0.030	0.76	0.060	1.52	0.340	8.64	63	10
18-03SOOW	18	3	16/30	0.030	0.76	0.060	1.52	0.360	9.14	74	10
18-04SOOW	18	4	16/30	0.030	0.76	0.060	1.52	0.390	9.91	87	7
18-05SOOW	18	5	16/30	0.030	0.76	0.080	2.03	0.460	11.68	123	5.6
18-06SOOW	18	6	16/30	0.030	0.76	0.080	2.03	0.480	12.19	131	5.6
18-07SOOW	18	7	16/30	0.030	0.76	0.080	2.03	0.480	12.19	134	5.6
18-08SOOW	18	8	16/30	0.030	0.76	0.080	2.03	0.520	13.21	151	4.9
18-09SOOW	18	9	16/30	0.030	0.76	0.080	2.03	0.550	13.97	178	4.9
18-10SOOW	18	10	16/30	0.030	0.76	0.080	2.03	0.590	14.99	180	4.9
18-12SOOW	18	12	16/30	0.030	0.76	0.080	2.03	0.610	15.49	202	3.5
18-14SOOW	18	14	16/30	0.030	0.76	0.095	2.41	0.660	16.76	246	3.5
18-16SOOW	18	16	16/30	0.030	0.76	0.095	2.41	0.690	17.53	274	3.5
18-20SOOW	18	20	16/30	0.030	0.76	0.095	2.41	0.760	19.30	333	3.5
18-24SOOW	18	24	16/30	0.030	0.76	0.095	2.41	0.830	21.08	376	3.2
18-30SOOW	18	30	16/30	0.030	0.76	0.110	2.79	0.910	23.11	470	3.2

All values are nominal and subject to correction.

** Ampacity values shown are for current carrying conductors. A grounding conductor, or one which carries only the unbalanced current from other conductors, is NOT counted in determining current carrying capacity.



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