

SOOW CORD

APPLICATION / SCOPE

SOOW flexible cords are designed for heavy duty use in portable tools, equipment, small motors and associated machinery, industrial equipment, marine dockside power, appliances, equipment exposed to oils, solvents, flame, moisture and other electrical equipment where flexibility and durability are required. The rated voltage is 600V and the temperature range is -40°C to +105°C.

This specification covers flame retardant, water and ozone resistance, and flexible cables.

STANDARDS

- UL 62
- CSA C22.2 No.49
- MSHA
- NEC Table 400.5 Allowable Ampacity for Flexible Cords and Cables

CONDUCTOR

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

INSULATION

1. Material

Premium grade color coded Ethylene-Propylene Diene Monomer (EPDM) 105°C compound class 19 comply with table 8 of UL 62.

2. Color Code Table

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

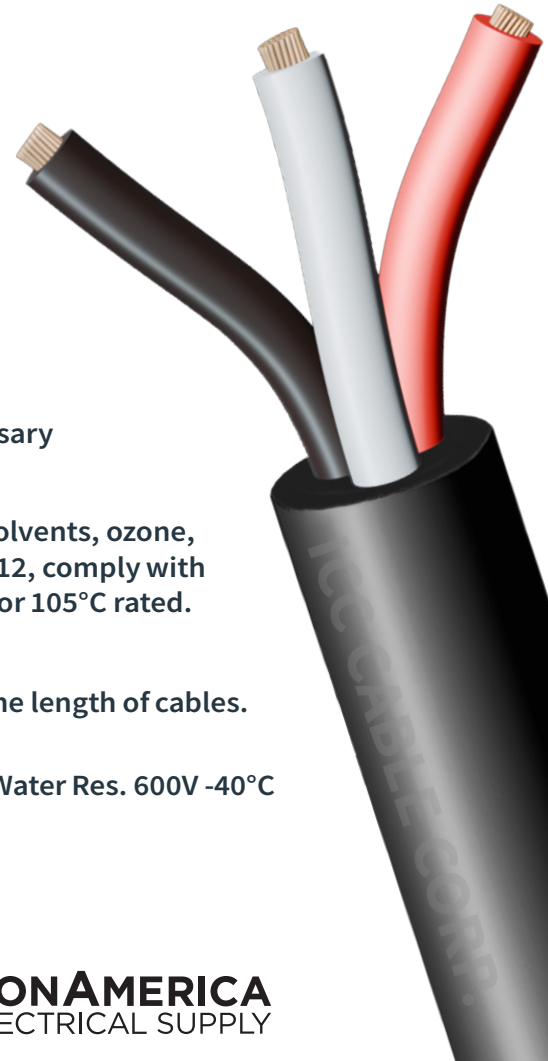
JACKET

Overall jacket of black Chlorinated Polyethylene (CPE), which is oil, solvents, ozone, weather, sunlight, and water resistant. CPE 105°C compound class 1.12, comply with table 11 of UL 62. Standard jacket is black, yellow jacket is available for 105°C rated.

PRINT LEGEND

The cables shall be marked with the following information through the length of cables. The marking shall be repeated at least every 2 feet.

Legend : ICC Cable (COND)(SIZE)(mm²) E537089 SOOW 105°C Sun & Water Res. 600V -40°C FT1 FT2 07-KA240001-MSHA (week)2024 0000ft.

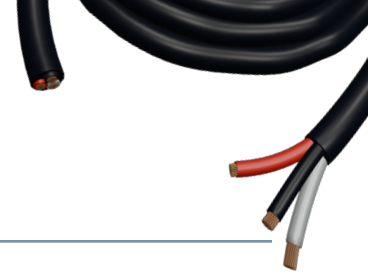


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DONAMERICA
ELECTRICAL SUPPLY

SOOW CORD



FLEXIBLE CORD : POWER & CONTROL

POWER

CONDUCTOR SIZE (AWG)	NUMBER OF CONDUCTORS	CONDUCTOR STRANDING (NO. / AWG)	INSULATION THICKNESS (IN)	JACKET THICKNESS (IN)	OVERALL DIAMETER (IN)	WEIGHT (LBS / KFT)	RATED AMPACITY (AMPS)
8	2	168/30	0.06	0.11	0.83	354	40
8	3	168/30	0.06	0.11	0.83	452	40
8	4	168/30	0.06	0.125	0.93	577	35
8	5	168/30	0.06	0.125	1	683	28
6	2	266/30	0.06	0.125	0.7	507	55
6	3	266/30	0.06	0.125	0.7	641	55
6	4	266/30	0.06	0.14	1.06	785	45
6	5	266/30	0.06	0.14	1.18	983	36
4	2	427/30	0.06	0.14	1.13	716	70
4	3	427/30	0.06	0.14	1.13	913	70
4	4	427/30	0.06	0.155	1.25	1156	60
4	5	427/30	0.06	0.155	1.31	1318	48
2	2	665/30	0.06	0.155	1.3	1021	95
2	3	665/30	0.06	0.155	1.3	1287	95
2	4	665/30	0.06	0.17	1.45	1644	80
2	5	665/30	0.06	0.17	1.53	1900	64

CONTROL

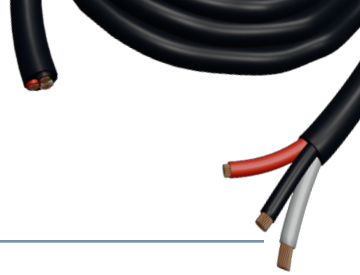
CONDUCTOR SIZE (AWG)	NUMBER OF CONDUCTORS	CONDUCTOR STRANDING (NO. / AWG)	INSULATION THICKNESS (IN)	JACKET THICKNESS (IN)	OVERALL DIAMETER (IN)	WEIGHT (LBS / KFT)	RATED AMPACITY (AMPS)
18	2	16/30	0.03	0.06	0.345	63	10
18	3	16/30	0.03	0.06	0.365	74	10
18	4	16/30	0.03	0.06	0.39	87	7
18	5	16/30	0.03	0.08	0.46	123	5.6
18	6	16/30	0.03	0.08	0.48	131	5.6
18	7	16/30	0.03	0.08	0.48	134	5.6
18	8	16/30	0.03	0.08	0.52	151	4.9
18	10	16/30	0.03	0.08	0.59	180	4.9
18	12	16/30	0.03	0.08	0.61	202	3.5
18	14	16/30	0.03	0.095	0.66	246	3.5
18	16	16/30	0.03	0.095	0.66	274	3.5
18	20	16/30	0.03	0.095	0.69	333	3.5
18	24	16/30	0.03	0.095	0.76	376	3.5
16	2	26/30	0.03	0.06	0.37	76	13
16	3	26/30	0.03	0.06	0.39	90	13
16	4	26/30	0.03	0.06	0.42	107	10
16	5	26/30	0.03	0.08	0.49	149	8
16	6	26/30	0.03	0.08	0.53	165	8
16	7	26/30	0.03	0.08	0.53	170	8
16	8	26/30	0.03	0.08	0.56	193	7
16	9	26/30	0.03	0.095	0.63	238	7
16	10	26/30	0.03	0.095	0.68	251	7
16	12	26/30	0.03	0.095	0.7	282	5
16	16	26/30	0.03	0.095	0.76	354	5
16	20	26/30	0.03	0.095	0.84	434	5
16	24	26/30	0.03	0.095	0.92	520	4.5



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14	2	41/30	0.045	0.08	0.5	137	18
14	3	41/30	0.045	0.08	0.52	161	18
14	4	41/30	0.045	0.095	0.57	192	15
14	5	41/30	0.045	0.095	0.64	251	12
14	6	41/30	0.045	0.095	0.69	277	12
14	7	41/30	0.045	0.095	0.69	285	12
14	8	41/30	0.045	0.095	0.74	324	10.5
14	10	41/30	0.045	0.095	0.86	388	10.5
14	12	41/30	0.045	0.095	0.89	441	7.5
14	14	41/30	0.045	0.11	0.95	504	7.5
14	16	41/30	0.045	0.11	0.98	563	7.5
14	20	41/30	0.045	0.11	1.11	730	7.5
14	24	41/30	0.045	0.11	1.22	828	6.8
12	2	65/30	0.045	0.095	0.57	184	25
12	3	65/30	0.045	0.095	0.59	217	25
12	4	65/30	0.045	0.095	0.64	261	20
12	5	65/30	0.045	0.095	0.7	319	16
12	6	65/30	0.045	0.095	0.74	344	16
12	7	65/30	0.045	0.095	0.74	358	16
12	8	65/30	0.045	0.095	0.8	408	14
12	10	65/30	0.045	0.11	0.95	519	14
12	12	65/30	0.045	0.11	0.98	591	10
12	16	65/30	0.045	0.11	1.08	755	10
12	20	65/30	0.045	0.125	1.22	971	10
12	24	65/30	0.045	0.125	1.35	1106	9
10	2	104/30	0.045	0.095	0.63	230	30
10	3	104/30	0.045	0.095	0.66	281	30
10	4	104/30	0.045	0.095	0.71	336	25
10	5	104/30	0.045	0.095	0.76	409	20
10	6	104/30	0.045	0.095	0.82	452	20
10	7	104/30	0.045	0.095	0.82	474	20
10	8	104/30	0.045	0.095	0.88	541	17.5
10	9	104/30	0.045	0.11	1.01	615	17.5
10	10	104/30	0.045	0.11	1.05	686	17.5
10	12	104/30	0.045	0.11	1.09	788	12.5
10	16	104/30	0.045	0.125	1.23	1053	12.5
10	20	104/30	0.045	0.125	1.35	1304	12.5



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