

## Power Cable -40°C +90°C MSHA Extra Hard Usage - High Grade Mechanical Service

### SPECIFICATIONS & STANDARDS

UL 62/CSA-C 22.2 No 49



### CONSTRUCTION:

<b>Conductors:</b>	Stranded bare copper, ASTM B-173 and UL 62
<b>Insulation:</b>	EPR compound, 90°C compound class 3, table 8, UL 62
<b>Assembly:</b>	Insulated conductors cabled together with integral filled or rubber fillers
<b>Separator:</b>	Polyester tape for 8-2 AWG
<b>Jacket:</b>	Black CPE 90°C compound class 1.4, UL 62, table 15
<b>Color code:</b>	ICEA S-58-679, Method 1, table 1; 2/c, 3/c - black, white, green; 4/c, 5/c - black, white, red, green, orange

FEATURES	APPLICATION
<ul style="list-style-type: none"> <li>- Excellent flexibility, resistance to oil, solvents, ozone, weather, sunlight and water</li> <li>- Flame test meets VW-1, FT2, and MSHA</li> <li>- Temperature range: -40°C to +90°C</li> <li>- Suitable for shallow water immersion</li> </ul>	<ul style="list-style-type: none"> <li>- Industrial and processing equipment, cranes and hoists, track systems, tools, construction equipment, motors and associated machinery, garage portable lights, battery charger and equipment exposed to oils, solvents, flame, moisture and other electrical equipment</li> </ul>

### COLOR CODE:

2/C black, white	4/C black, white, red, green
3/C black, white, green	5/C black, white, red, green, orange

### MULTICORE CABLES:

Number of core:	Color	Tracer	Number of core:	Color	Tracer	Number of 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

Standard length cable packing: 1000 ft reels; Other forms of packaging available

### APPROVALS:

MSHA: P-7K-254013

Part Number	Power Conductor Size	No. of Conductors	Power Conductor Stranding	Nominal Insulation Thickness		Nominal Jacket Thickness		Nominal O.D.		Approx. Weight	Ampacity (1) 30°C Ambient Temp.
				inches	mm	inches	mm	inches	mm		
SOOW8-2 IF	8	2	67 / 0.0156	0.050	1.27	0.060	1.52	0.64	16.1	258	40
SOOW8-3 IF		3						0.68	17.1	326	40
SOOW8-4 IF		4						0.74	18.8	410	35
SOOW8-5 IF		5						0.81	20.7	499	28
SOOW6-2 IF	6	2	184 / 0.0117	0.050	1.27	0.060	1.52	0.72	18.4	353	55
SOOW6-3 IF		3				0.060	1.52	0.77	19.5	450	55
SOOW6-4 IF		4				0.080	2.03	0.89	22.5	607	45
SOOW6-5 IF		5				0.080	2.03	0.97	24.7	736	36
SOOW4-2 IF	4	2	165 / 0.0156	0.050	1.27	0.080	2.03	0.88	22.4	540	70
SOOW4-3 IF		3						0.94	23.8	689	70
SOOW4-4 IF		4						1.03	26.1	876	60
SOOW4-5 IF		5						1.13	28.8	1068	48
SOOW2-2 IF	2	2	262 / 0.0156	0.050	1.27	0.080	2.03	1.01	25.6	755	95
SOOW2-3 IF		3						1.07	27.3	980	95
SOOW2-4 IF		4						1.18	30.0	1251	80
SOOW2-5 IF		5						1.30	33.1	1534	64

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

### STANDARD PRINT LEGEND:

TF CABLE FLEXTREME (COND) (SIZE) (mm<sup>2</sup>) TYPE SOOW 600V SUNLIGHT & WATER RESISTANT 90C P-7K-254013-MSHA

