

Multi-conductor Type W

2000 V

ASTM B-33, UL 44, UL 1650, CSA C22.2 96-13

Portable Power Cable 90°C UL C(UL) MSHA
Industrial Grade

APPLICATIONS

Portable power systems. Mining applications where bare grounding conductors are not required. Other industrial applications

CONSTRUCTION

Conductors	Soft drawn flexible stranded tinned copper wires
Separator	Tape separator between conductor and insulation
Insulation	Ethylene-propylene rubber (EPR)
Circuit identification	
3-core	Black, white, green
4-core	Black, white, red, green
5-core	Black, white, red, green, orange
6-core	Black, white, red, green, orange, blue
Assembly	Power cores and rubber fillers cabled together to form a round core
Separator	Single faced rubber filled binder tape applied over core
Jacket	Black heavy duty CPE thermosetting compound
Bending radius	Minimum 6 x outer diameter



Features

Excellent flexibility. Highly ozone, sun, weather and flame resistant. Rated and flexible at -40°C to $+90^{\circ}\text{C}$. Excellent impact and abrasion resistant. Oil and heat resistant. Indent printed for easy identification. Suitable for shallow water immersion.

Approvals

UL: E207132 - Oil Resistant Oil Resistant Inners, Sunlight resistant 90°C Wet or Dry
C(UL): E207132, FT1, FT5 -40°C to $+90^{\circ}\text{C}$, **MSHA:** P-7K-268101

Technical and Electrical Characteristic

Part Number	Size	No. of cond.	Conductor Strand	Nominal Insulation Thickness		Outside Diameter		Approx. weight		Ampacity(1)
	AWG or MCM	N	No. of wires	Inches	mm	Inches	mm	Lbs. per 1000ft.	kg/km	A
3 CONDUCTOR										
W8-3	8 AWG	3	133	0.06	1.52	0.96	24.3	565	841	74
W6-3	6 AWG	3	259	0.06	1.52	1.03	26.2	698	1038	99
W4-3	4 AWG	3	259	0.06	1.52	1.14	29.0	944	1405	130
W2-3	2 AWG	3	259	0.06	1.52	1.29	32.8	1306	1944	174
W1-3	1 AWG	3	259	0.06	1.52	1.46	37.0	1639	2439	202
W1/0-3	1/0 AWG	3	266	0.08	2.03	1.59	40.3	1991	2963	234
W2/0-3	2/0 AWG	3	342	0.08	2.03	1.69	42.8	2380	3541	271
W3/0-3	3/0 AWG	3	418	0.08	2.03	1.81	46.1	2808	4179	313
W4/0-3	4/0 AWG	3	532	0.08	2.03	1.96	49.7	3425	5097	361
W250-3	250 MCM	3	627	0.095	2.41	2.29	58.2	4258	6336	402
W350-3	350 MCM	3	888	0.095	2.41	2.57	65.2	5650	8408	495
W500-3	500 MCM	3	1221	0.095	2.41	2.90	73.7	7445	11079	613
4 CONDUCTOR										
W8-4	8 AWG	4	133	0.06	1.52	0.98	24.9	626	931	65
W6-4	6 AWG	4	259	0.06	1.52	1.10	28.0	831	1237	87
W4-4	4 AWG	4	259	0.06	1.52	1.22	30.9	1134	1687	114
W2-4	2 AWG	4	259	0.06	1.52	1.44	36.6	1661	2471	152
W1-4	1 AWG	4	259	0.06	1.52	1.59	40.4	2035	3028	177
W1/0-4	1/0 AWG	4	266	0.08	2.03	1.70	43.3	2423	3605	205
W2/0-4	2/0 AWG	4	342	0.08	2.03	1.85	47.1	2993	4454	237
W3/0-4	3/0 AWG	4	418	0.08	2.03	1.96	49.9	3476	5173	274
W4/0-4	4/0 AWG	4	532	0.08	2.03	2.15	54.7	4340	6458	316
W250-4	250 MCM	4	627	0.095	2.41	2.53	64.2	5381	8008	352
W350-4	350 MCM	4	888	0.095	2.41	2.83	71.8	7137	10620	433
W500-4	500 MCM	4	1221	0.095	2.41	3.24	82.2	9507	14147	536
5 CONDUCTOR										
W8-5	8 AWG	5	133	0.06	1.52	0.92	23.3	526	783	52
W6-5	6 AWG	5	259	0.06	1.52	1.03	26.2	706	1051	70
W4-5	4 AWG	5	259	0.06	1.52	1.2	30.4	985	1466	91
W2-5	2 AWG	5	259	0.06	1.52	1.37	34.7	1413	2103	122
W1-5	1 AWG	5	259	0.06	1.52	1.56	39.5	1976	2941	142

Part Number	Size	No. of cond.	Conductor Strand	Nominal Insulation Thickness		Outside Diameter		Approx. weight		Ampacity(1)
	AWG or MCM	N	No. of wires	Inches	mm	Inches	mm	Lbs. per 1000ft.	kg/km	A
W1/0-5	1/0 AWG	5	266	0.08	2.03	1.81	46.1	2581	3841	164
W2/0-5	2/0 AWG	5	342	0.08	2.03	1.94	49.2	3060	4554	190
W3/0-5	3/0 AWG	5	418	0.08	2.03	2.02	51.3	3601	5358	219
W4/0-5	4/0 AWG	5	532	0.08	2.03	2.23	56.6	4373	6507	253
6 CONDUCTOR										
W6-6	6 AWG	6	259	0.06	1.52	1.30	32.9	1163	1731	70

* without MSHA approvals

(1) Ampacities based on 90°C Conductor and 30°C Ambient temperature per table 400.5(A)(2) of the National Electrical Code®

Standard print legend:

TF CABLE (SIZE) TYPE W PORTABLE POWER CABLE 2000V 90 C SUN RES OIL RES 90C WET OR DRY (UL) E207132 C(UL) FT1 FT5 (-40C) P-7K-268101-MSHA

Special factory option

Jacket:	Other colors available
MSHA:	P-7K-268077 (Neoprene)
CSA:	1523058 (LR 103932)- FT1, FT5, +90°C (-40°C) (Neoprene)

All the information in this document – including tables and diagrams – is given in good faith and believed to be correct at the time of publication. The information does not constitute a warranty nor representation for which TELE-FONIKA Kable assumes legal responsibility. TELE-FONIKA Kable reserves rights to introduce changes to the document at any time