

# PORTABLE POWER CABLE

## Ampacities of 0 - 2000 V. 90°C Rated DLO Cables in Air

### 30°C AMBIENT AIR TEMPERATURE

SIZE (AWG/MCM)	AMPACITY <sup>1</sup>	
	@ 75°C (167°F)	@ 90°C (194°F)
14	30	35
12	37	40
10	51	55
8	70	80
6	95	105
4	125	140
3	145	165
2	170	190
1	195	220
1/0	230	260
2/0	265	300
3/0	310	350
4/0	360	405
262.6	415	470
313.1	460	510
373.7	525	590
444.4	580	655
535.3	645	730
646.6	720	815
777.7	800	905
929.2	890	1005
1111.1	940	1115

<sup>1</sup>The above ampacities are based on single conductors in free air, 30°C (86°F) ambient air temperature, conductor temperature as specified, per Table 310-17 of the 1999 NEC (adjusted for size on 262.6 MCM and larger).

#### Correction Factors for Ambient Temperatures:

For ambient temperatures other than 30°C, multiply the allowable ampacity value shown by one of the following factors:

AMBIENT TEMPERATURE	CORRECTION FACTORS FOR AMPACITY AT:	
	75°C	90°C
31 - 35°C	.94	.96
36 - 40°C	.88	.91
41 - 45°C	.82	.87
46 - 50°C	.75	.82
51 - 55°C	.67	.76
56 - 60°C	.58	.71
61 - 70°C	.33	.58
71 - 80°C	---	.41

## Ampacities of 0 - 2 KV DLO Cables in Conduit (at 75°C and 90°C Conductor Temperatures)

SIZE (AWG/MCM)	3 CONDUCTORS IN CONDUIT		4 CONDUCTORS IN CONDUIT (1)	
	75°C	90°C	75°C	90°C
8	50	55	40	44
6	65	75	52	60
4	85	95	68	76
2	115	130	92	104
1	130	150	104	120
1/0	150	170	120	136
2/0	175	195	140	156
3/0	200	225	160	180
4/0	230	260	184	208
262	262	295	210	236
313	292	325	234	260
373	322	360	258	288
444	355	405	284	324
535	394	445	315	356
646	438	495	350	396
777	483	545	386	436
1111	565	640	452	512

#### Correction Factors for Ambient Temperatures:

For ambient temperatures other than 30°C, multiply the allowable ampacity value shown by one of the following factors:

AMBIENT TEMPERATURE	CORRECTION FACTORS FOR AMPACITY AT:	
	75°C	90°C
21 - 25°C	1.05	1.04
26 - 30°C	1.00	1.00
31 - 35°C	.94	.96
36 - 40°C	.88	.91
41 - 45°C	.82	.87
46 - 50°C	.75	.82
51 - 55°C	.67	.76
56 - 60°C	.58	.71
61 - 70°C	.33	.58
71 - 80°C	---	.41

For more than three current-carrying conductors in conduit multiply the 2 conductor values by the following correction factors:

NUMBER OF CONDUCTORS	CORRECTION FACTOR
4 - 6	.80
7 - 9	.70
10 - 20	.50

#### NOTE:

- If one conductor is used as a neutral or ground and does not carry current use the 3 conductor column.
- The above values are based on a 30°C (86°F) ambient temperature per Table 310-16 of the 1999 NEC.

» Information on this sheet is subject to change without notice. All diameters are nominal values. All diameters and weights are subject to normal manufacturing tolerances.

# PORTABLE POWER CABLE

## DLO & Industrial Motor Lead Cable

Single Conductor DLO - UL Listed  
1 AWG - 444 KCMIL • 2000 Volts • 90°C



### FEATURES

- UL Listed
- Passes FT4
- Flame retardant (passes MSHA Flame Test)

### SCOPE

This specification covers 2000 volt rated single conductor power cables having flexible stranded conductors insulated with ethylene propylene rubber (EPR) with a black thermoset jacket.

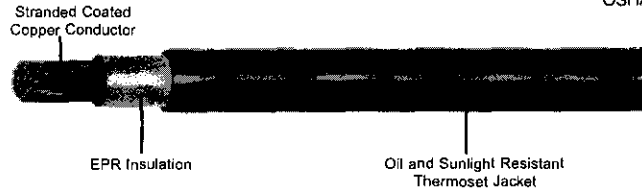
### APPLICATIONS

These cables were designed for use as motor and power leads where flexibility and portability are required. DLO cables are also suitable for use in wiring diesel-electric locomotives, railroad and transit cars, earth moving equipment, offshore drilling rigs, storage batteries, charging equipment and flexible wiring for installation in conduit per the NEC.

### CONSTRUCTION

#### DLO • 2000 VOLT • 90°C

UL listed type RHH/RHW with stranded, annealed coated copper conductor, separator when required, EPR insulation, heavy-duty, oil and sunlight resistant thermoset jacket.



PART NUMBER	SIZE	STRANDING	COND. O.D.	INSULATION THICKNESS	JACKET THICKNESS	Nominal O.D.	AMPS <sup>1</sup>	SHIP WT. LBS./M FT
<b>DLO • 2000V • 90°C</b>								
Note:	14	19/.0147	.073	.045	.020	.210	35	35
Wt+	12	19/.0185	.092	.045	.020	.230	40	45
	10	27/.0201	.123	.045	.020	.260	55	63
	8	41/.0201	.156	.055	.030	.330	80	74
	6	65/.0201	.186	.060	.030	.370	105	137
	4	105/.0201	.240	.060	.030	.420	140	219
	2	168/.0201	.325	.060	.030	.520	190	296
2513	1	224/.0201	.390	.080	.045	.654	220	434
2510	1/0	273/.0201	.420	.080	.045	.685	260	526
10000200	2/0	324/.0201	.460	.080	.045	.730	300	601
10000700	3/0	448/.0201	.565	.080	.045	.830	350	823
10000600	4/0	551/.0201	.590	.080	.045	.855	405	928
2520	262	646/.0201	.660	.095	.065	1.000	470	1110
	313	779/.0201	.740	.095	.065	1.075	510	1332
2525	373	925/.0201	.795	.095	.065	1.130	590	1537
2521	444	1110/.0201	.870	.095	.065	1.210	655	1803
	535	1332/.0201	.970	.120	.065	1.355	730	2216
	646	1591/.0201	1.060	.110	.065	1.430	815	2593
	777	1924/.0201	1.120	.110	.065	1.495	905	3062
	929	2318/.0201	1.230	.110	.065	1.605	1005	3675
	1111	2725/.0201	1.370	.125	.065	1.785	1115	4104

<sup>1</sup>Ampacities (AMPS per conductor) are based on single conductor in free air, 30°C ambient temperature in air, 90°C conductor temperature and Table 310-17 of the N.E.C.

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