

# 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:

1. If one conductor is used as a neutral or ground and does not carry current use the 3 conductor column.
2. 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.