

Type T/N Drilmar® 90 Power/Distribution Cable Ampacity

Polyvinyl Chloride/Nylon Insulated, Drilling Rig and Marine Cable



A Viakable Company

Single Conductor, Power Cable Ampacity

Ampacity	
Size AWG/kcmil	90 °C
18	15
16	21
14	34
12	43
10	54
8	68
6	88
5	100
4	118
2	156
1	180
1/0	207
2/0	240
3/0	278
4/0	324
250	359
300	412
350	446
400	489
500	560
600	623
750	723
1000	867

Ampacities based on IEEE Std. 45-2002, Table 25, single bank per hanger at 45 °C ambient.

Two Conductors, Power Cable Ampacity

Ampacity	
Size AWG/kcmil	90 °C
14	27
12	36
10	46
8	60
6	79
5	92
4	101
2	137
1	161
1/0	183
2/0	233
3/0	245
4/0	284
250	316
300	354
350	387
400	419
500	479
600	539
750	602

Ampacities based on IEEE Std. 45-2002, Table 25, single bank per hanger at 45 °C ambient. Ampacities for other ambient and conductor temperature values were calculated per IEEE-835-1994, paragraph 3.4.

Technical Data *continued*

Three Conductors, Power Cable Ampacity

Ampacity	
Size AWG/kcmil	90 °C
14	24
12	29
10	38
8	48
6	65
5	75
4	83
2	111
1	131
1/0	150
2/0	173
3/0	201
4/0	232
250	259
300	290
350	317
400	342
500	393
600	440
750	494

Ampacities based on IEEE Std. 45-2002, Table 25, single bank per hanger at 45 °C ambient. Ampacities for other ambient and conductor temperature values were calculated per IEEE-835-1994, paragraph 3.4.

Four Conductors, Power Cable Ampacity

Ampacity	
Size AWG/kcmil	90 °C
14	19
12	23
10	30
8	38
6	52
5	60
4	66
2	89
1	105
1/0	120
2/0	138
3/0	161
4/0	186
250	207
300	232
350	254
400	274
500	314
600	352
750	395

Ampacities based on IEEE Std. 45-2002, Table 25, single bank per hanger at 45 °C ambient. Ampacities for number or conductors were made per Note on IEEE Std. 45-2002 Table 25.

NOTE: Current carrying capacity of four conductor cables, where one conductor does not act as a normal current carrying conductor (e.g. grounded neutral or grounding conductor), is the same as three conductor cables.

Correction Factors

	95 °C @ 45 °C ambient in single bank per IEEE 45
1) Derate fact of for double Bank	0.80
2) Derate factor for 50 °C ambient	0.95
3) Derate factor for 55 °C ambient	0.89
4) Derate factor for 40 °C ambient	1.05