

# Type P Drilmar® 125-XE Power/Distribution Cable Ampacity

Crosslinked Polyolefin Insulated, Drilling Rig and Marine Cable



A Viakable Company

## Single Conductor, Power Cable Ampacity

Size AWG/kcmil	Ampacity			
	125 °C	110 °C	100 °C	95 °C
18	19	17	16	15
16	27	25	23	22
14	43	40	37	36
12	52	48	45	43
10	67	62	58	56
8	84	77	72	69
6	112	103	96	92
5	127	117	109	105
4	149	137	128	123
2	197	181	169	162
1	226	208	194	186
1/0	264	243	227	218
2/0	305	281	262	252
3/0	349	321	300	288
4/0	408	376	351	337
262	473	436	407	391
313	529	487	455	437
373	600	553	516	496
444	684	630	588	565
535	733	675	630	605
646	850	783	731	702
777	956	881	822	790
1111	1192	1098	1025	985

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.

## Two Conductors, Power Cable Ampacity

Size AWG/kcmil	Ampacity			
	125 °C	110 °C	100 °C	95 °C
18	16	15	14	13
16	22	20	19	18
14	36	33	31	30
12	47	43	40	38
10	57	52	49	47
8	74	69	64	61
6	99	91	85	82
5	117	108	101	97
4	128	118	110	106
2	173	160	149	143
1	202	186	174	167
1/0	231	213	199	191
2/0	282	259	242	232
3/0	308	284	265	255
4/0	357	329	307	295
262	416	383	358	344
313	455	419	391	376
373	514	473	442	425
444	586	540	504	484
535	626	576	538	517
646	735	677	632	607
777	796	733	684	657

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	125 °C	110 °C	100 °C	95 °C
18	14	13	12	12
16	19	17	16	15
14	29	27	25	24
12	36	33	31	30
10	48	44	41	39
8	60	56	52	50
6	81	75	70	67
5	95	88	82	79
4	107	99	92	88
2	142	131	122	117
1	166	153	143	137
1/0	191	176	164	158
2/0	219	201	188	181
3/0	254	234	218	209
4/0	293	270	252	242
262	342	315	294	282
313	373	344	321	308
373	420	387	361	347
444	478	440	411	395
535	515	475	443	426
646	600	553	516	496
777	654	602	562	540

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 or Five Conductors, Power Cable Ampacity

Ampacity				
Size AWG/kcmil	125 °C	110 °C	100 °C	95 °C
18	11	11	10	9
16	15	14	13	12
14	23	21	20	19
12	29	27	25	24
10	38	35	33	32
8	48	45	42	40
6	65	60	56	54
5	76	71	66	63
4	86	79	74	71
2	114	105	98	94
1	133	122	114	110
1/0	153	140	131	126
2/0	175	161	150	144
3/0	203	186	174	168
4/0	235	216	202	194
262	274	252	235	226
313	299	275	257	247
373	336	310	289	277
444	382	352	329	316
535	412	380	354	340
646	480	442	413	397
777	523	482	450	432

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.

## Correction Factors

	125 °C @ 45 °C ambient in single bank per IEEE 45	110 °C @ 45 °C ambient in single bank per IEEE 45	100 °C @ 45 °C ambient in single bank per IEEE 45	95 °C @ 45 °C ambient in single bank per IEEE 45
1) Derate fact of for double Bank	0.80	0.80	0.80	0.80
2) Derate factor for 50 °C ambient	0.97	0.96	0.95	0.95
3) Derate factor for 55 °C ambient	0.94	0.92	0.90	0.89
4) Derate factor for 40 °C ambient	1.03	1.04	1.04	1.05