

Primary UD Cable 5 kV – 46 kV



A Viakable Company

Ampacity Data

Ampacity 100% and 133% Insulation Levels

Size AWG or kcmil	Copper				Aluminum			
	5 – 15 kV		25 – 46 kV		5 – 15 kV		25 – 46 kV	
	1/3 Neutral	Full Neutral	1/3 Neutral	Full Neutral	1/3 Neutral	Full Neutral	1/3 Neutral	Full Neutral
	amp		amp		amp		amp	
2	160	160	–	–	125	125	–	–
1	187	185	189	188	146	145	147	147
1/0	212	210	214	212	166	165	167	167
2/0	241	238	248	245	189	188	194	193
3/0	273	268	281	276	214	213	220	218
4/0	309	300	317	309	244	241	250	247
250	336	–	344	–	266	–	273	–
350	398	–	407	–	320	–	326	–
500	476	–	476	–	394	–	392	–
750	547	–	565	–	476	–	486	–
1000	620	–	625	–	550	–	556	–
	1/6 Neutral	Full Neutral	1/6 Neutral	Full Neutral	1/6 Neutral	Full Neutral	1/6 Neutral	Full Neutral
1000	658	–	658	–	580	–	573	–

Rating Voltage	Minimum Size AWG
5 kV	8
8 kV	6
15 kV	2
25 kV	1
35 kV	1/0

† Ampacities are based on the following:

Copper: Three shielded single insulated Copper conductors in buried ducts, single circuit, 25 °C ambient earth temperature, 75% load factor, 90 RHO and 90 °C conductor temperature (IEEE Std. 835).

Aluminum: Three shielded single insulated Aluminum conductors in buried ducts, single circuit, 25 °C ambient earth temperature, 75% load factor, 90 RHO and 90 °C conductor temperature (IEEE Std. 835).

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