

# Secondary URD Aluminum, XLPE Insulated, 600 V



A Viakable Company

## Ampacity Data

### Cable Construction Single Insulated Conductor

Conductor Size AWG/kcmil	Ampacity	
	In Ducts	Direct Burial
6	65	90
4	85	120
2	115	155
1	130	175
1/0	150	200
2/0	170	225
3/0	195	250
4/0	225	290
250	250	320
300	280	355
350	305	385
500	370	465
600	410	510
700	440	550
750	470	580
1000	545	670

\* Conductor temperature of 90 °C; ambient temperature of 20 °C; RHO 90; 100% load factor for three conductor triplex, 3 phase operation.

### Cable Construction 2PLX and 3PLX

Conductor Size AWG/kcmil	Ampacity	
	In Ducts	Direct Burial
8	55	70
6	70	95
4	90	125
2	120	165
1/0	160	215
2/0	180	245
3/0	205	280
4/0	240	315
350	320	415
500	395	495

\* Conductor temperature of 90 °C; ambient temperature of 20 °C; RHO 90; 100% load factor with neutral carrying only unbalanced load for triplex assemblies.

### Cable Construction 4PLX

Conductor Size AWG/kcmil	Ampacity	
	In Ducts	Direct Burial
4	85	120
2	115	155
1/0	150	200
2/0	170	225
3/0	195	250
4/0	225	290
350	305	385
500	370	465

\* Conductor temperature of 90 °C; ambient temperature of 20 °C; RHO 90; 100% load factor with neutral carrying only unbalanced load.

**Ampacity Data *continued***

**Cable Construction** Single Insulated Conductor

**Cable Construction** Single, 2PLX, 3PLX and 4PLX

Conductor Size AWG/kcmil	Ampacity	
	75 °C (167 °F)	90 °C (194 °F)
12	30	35
10	40	45
8	55	60
6	75	85
4	100	115
3	115	130
2	135	150
1	155	175
1/0	180	205
2/0	210	235
3/0	240	270
4/0	280	315
250	315	355
300	350	395
350	395	445
400	425	480
500	485	545
600	545	615
700	595	670
750	620	700
800	645	725
900	700	790
1000	750	845
1250	855	965
1500	950	1070
1750	1050	1185
2000	1150	1295

NEC Table 310.15(B)(17) (formerly Table 310.17) Allowable Ampacities of Single Insulated Conductors Rated Up to and Including 2000 V in Free Air, Based on Ambient Temperature of 30 °C (86 °F).

Conductor Size AWG/kcmil	Ampacity	
	75 °C (167 °F)	90 °C (194 °F)
12	20	25
10	30	35
8	40	45
6	50	55
4	65	75
3	75	85
2	90	100
1	100	115
1/0	120	135
2/0	135	150
3/0	155	175
4/0	180	205
250	205	230
300	230	260
350	250	280
400	270	305
500	310	350
600	340	385
700	375	425
750	385	435
800	395	445
900	425	480
1000	445	500
1250	485	545
1500	520	585
1750	545	615
2000	560	630

NEC Table 310.15(B)(16) (formerly Table 310.16) Allowable Ampacities of Insulated Conductors Rated Up to and Including 2000 V, 60 °C Through 90 °C (140 °F Through 194 °F), Not More Than Three Current-Carrying Conductors in Raceway, Cable, or Earth (Directly Buried), Based on Ambient Temperature of 30 °C (86 °F)