



Aluminum USEI-90 Underground Secondary Cable

4 CONDUCTOR / FULL NEUTRAL										
3 PHASE CONDUCTORS				1 FULL NEUTRAL CONDUCTOR				Cable Diameter (mm)	Cable Weight (kg/km)	Ampacity* @ 90°C
SIZE (AWG or KCM)	No. of Strands	Insulation Thickness (mm)	Jacket Thickness (mm)	SIZE (AWG or KCM)	No. of Strands	Insulation Thickness (mm)	Jacket Thickness (mm)			
4	7	1.14	0.76	4	7	1.14	0.76	23	440	75
2	7	1.14	0.76	2	7	1.14	0.76	26	610	100
1	18	1.40	1.14	1	18	1.40	1.14	32	850	115
1/0	18	1.40	1.14	1/0	18	1.40	1.14	34	1000	135
2/0	18	1.40	1.14	2/0	18	1.40	1.14	36	1200	150
3/0	18	1.40	1.14	3/0	18	1.40	1.14	39	1450	175
4/0	18	1.40	1.14	4/0	18	1.40	1.14	42	1700	205
250	36	1.65	1.65	250	36	1.65	1.65	49	2200	230
350	36	1.65	1.65	350	36	1.65	1.65	55	2600	280
500	37	1.65	1.65	500	37	1.65	1.65	62	3900	350

4 CONDUCTOR / REDUCED NEUTRAL										
3 PHASE CONDUCTORS				1 REDUCED NEUTRAL CONDUCTOR				Cable Diameter (mm)	Cable Weight (kg/km)	Ampacity* @ 90°C
SIZE (AWG or KCM)	No. of Strands	Insulation Thickness (mm)	Jacket Thickness (mm)	SIZE (AWG or KCM)	No. of Strands	Insulation Thickness (mm)	Jacket Thickness (mm)			
4	7	1.14	0.76	6	7	1.14	0.76	22	410	75
2	7	1.14	0.76	4	7	1.14	0.76	25	570	100
1	18	1.40	1.14	3	18	1.40	1.14	30	770	115
1/0	18	1.40	1.14	2	18	1.40	1.14	32	910	135
2/0	18	1.40	1.14	1	18	1.40	1.14	35	1100	150
3/0	18	1.40	1.14	1/0	18	1.40	1.14	38	1350	175
4/0	18	1.40	1.14	2/0	18	1.40	1.14	41	1600	205
250	36	1.65	1.65	3/0	18	1.14	1.14	47	2000	230
350	36	1.65	1.65	250	36	1.65	1.65	54	2700	280
500	37	1.65	1.65	350	36	1.65	1.65	61	3600	350

All values are nominal and subject to correction.

*Ampacities based on Table 4 of the Canadian Electrical Code (CSA C22.1), 90°C conductor temperature, 30°C ambient temperature.

Application: USEI-90 underground distribution cable is designed to be used for secondary distribution and underground service operating at 600 volts or less. Cables are intended for underground installation, either direct burial or in duct systems.

Conductors: Compact or compressed 1350 series aluminum, with Class B stranding per ASTM B231, B400, B901.

Insulation: Abrasion, heat and moisture resistant cross-linked polyethylene XLPE insulation with colored polyvinyl chloride (PVC) jacket. Temperature range is -40°C to +90°C.

Assembly: Three phase conductors in red, black and blue and one white neutral are cabled together.

Standards: CSA C22.1, C22.2 No. 52, and No. 38, C22.3 No. 7.

1-877-611-5122