



Aluminum USEI-90 Underground Secondary Cable

3 CONDUCTOR / FULL NEUTRAL										
2 PHASE CONDUCTORS				1 FULL NEUTRAL CONDUCTOR				Cable Diameter (mm)	Cable Weight (kg/km)	Ampacity* @ 90°C
SIZE (AWG or KCM)	Min. No. of Strands	Insulation Thickness (mm)	Jacket Thickness (mm)	SIZE (AWG or KCM)	Min. No. of Strands	Insulation Thickness (mm)	Jacket Thickness (mm)			
4	7	1.14	0.76	4	7	1.14	0.76	20	330	75
2	7	1.14	0.76	2	7	1.14	0.76	23	460	100
1	18	1.40	1.14	1	18	1.40	1.14	28	640	115
1/0	18	1.40	1.14	1/0	18	1.40	1.14	30	760	135
2/0	18	1.40	1.14	2/0	18	1.40	1.14	32	900	150
3/0	18	1.40	1.14	3/0	18	1.40	1.14	35	1100	175
4/0	18	1.40	1.14	4/0	18	1.40	1.14	38	1300	205
250	35	1.65	1.65	250	35	1.65	1.65	44	1650	230
350	35	1.65	1.65	350	35	1.65	1.65	49	2200	280
500	35	1.65	1.65	500	35	1.65	1.65	56	2900	350
750	58	2.03	1.65	750	58	2.03	1.65	66	4255	435

3 CONDUCTOR / REDUCED NEUTRAL										
2 PHASE CONDUCTORS				1 REDUCED NEUTRAL CONDUCTOR				Cable Diameter (mm)	Cable Weight (kg/km)	Ampacity* @ 90°C
SIZE (AWG or KCM)	Min. No. of Strands	Insulation Thickness (mm)	Jacket Thickness (mm)	SIZE (AWG or KCM)	Min. No. of Strands	Insulation Thickness (mm)	Jacket Thickness (mm)			
4	7	1.14	0.76	6	7	1.14	0.76	20	300	75
2	7	1.14	0.76	4	7	1.14	0.76	23	420	100
1	18	1.40	1.14	3	7	1.40	1.14	27	560	115
1	18	1.40	1.14	2	7	1.40	1.14	27	580	115
1/0	18	1.40	1.14	2	7	1.40	1.14	29	660	135
2/0	18	1.40	1.14	1	18	1.40	1.14	32	810	150
3/0	18	1.40	1.14	1/0	18	1.40	1.14	34	990	175
4/0	18	1.40	1.14	2/0	18	1.40	1.14	36	1150	205
250	35	1.65	1.65	3/0	18	1.14	1.14	42	1450	230
350	35	1.65	1.65	250	35	1.65	1.65	48	2000	280
500	35	1.65	1.65	350	35	1.65	1.65	54	2700	350
750	58	2.03	1.65	500	35	1.65	1.65	62	3760	435

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: Two phase conductors in red and black 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