

## CSA Type USEI90 – Aluminum Underground Service Entrance Cable



### APPLICATIONS

CSA Type USEI90 underground service entrance cables are designed to be used for secondary distribution and underground service operating at 600 V or less. These cables are intended for underground installation, either direct burial or in duct systems, in accordance with the Canadian Electrical Code (CE Code).

### CONSTRUCTION

#### Conductor:

Compact stranded aluminum conductor, either AA-8000 series aluminum conforming to ASTM B801 or ASTM B836 (single input wire), or EC1350 aluminum conforming to ASTM B400.

#### Insulation:

Black cross-linked polyethylene (XLPE).

#### Jacket:

Coloured, flame retardant (FT1) and sunlight resistant polyvinyl chloride (PVC).

#### Assembly:

Twisted assembly of insulated and individually jacketed conductors, with either a full neutral (same size as phase conductor), or a reduced neutral (smaller size than phase conductor).

### IDENTIFICATION

- Duplex (2 conductor) – Black, White
- Triplex (3 conductor) – Black, Red, White
- Quadruplex (4 conductor) – Black, Red, Blue, White

### STANDARDS

- CSA C22.2 No. 52 – “Underground secondary and service-entrance cables”

### CERTIFICATION

- cUL certification under UL file E498924

### PHYSICAL DIMENSIONS

Item Number	Triplex USEI90 – 2 Phase Conductors Plus Neutral							Cable	Weight (kg/km)
	Phase Conductor			Neutral Conductor			Diameter (mm)		
	Size (AWG or kcmil)	Insulation Thickness (mm)	Jacket Thickness (mm)	Size (AWG or kcmil)	Insulation Thickness (mm)	Jacket Thickness (mm)			
A4-03USEI90	4	1.14	0.76	4	1.14	0.76	20	325	
A4-03USEI90-6	4	1.14	0.76	6	1.14	0.76	20	296	
A2-03USEI90	2	1.14	0.76	2	1.14	0.76	23	457	
A2-03USEI90-4	2	1.14	0.76	4	1.14	0.76	23	413	
A1-03USEI90	1	1.40	1.14	1	1.40	1.14	27	635	
A1-03USEI90-3	1	1.40	1.14	3	1.14	0.76	27	551	
A1/0-03USEI90	1/0	1.40	1.14	1/0	1.40	1.14	29	750	
A1/0-03USEI90-2	1/0	1.40	1.14	2	1.14	0.76	29	652	
A2/0-03USEI90	2/0	1.40	1.14	2/0	1.40	1.14	32	895	
A2/0-03USEI90-1	2/0	1.40	1.14	1	1.40	1.14	32	808	
A3/0-03USEI90	3/0	1.40	1.14	3/0	1.40	1.14	34	1072	
A3/0-03USEI90-1/0	3/0	1.40	1.14	1/0	1.40	1.14	34	965	
A4/0-03USEI90	4/0	1.40	1.14	4/0	1.40	1.14	37	1294	
A4/0-03USEI90-2/0	4/0	1.40	1.14	2/0	1.40	1.14	37	1161	
A250-03USEI90	250	1.65	1.65	250	1.65	1.65	43	1659	
A250-03USEI90-3/0	250	1.65	1.65	3/0	1.40	1.14	43	1463	



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Item Number	Triplex USEI90 – 2 Phase Conductors Plus Neutral						Cable	
	Phase Conductor			Neutral Conductor			Diameter (mm)	Weight (kg/km)
	Size (AWG or kcmil)	Insulation Thickness (mm)	Jacket Thickness (mm)	Size (AWG or kcmil)	Insulation Thickness (mm)	Jacket Thickness (mm)		
A300-03USEI90-4/0	300	1.65	1.65	4/0	1.40	1.14	45	1706
A350-03USEI90	350	1.65	1.65	350	1.65	1.65	48	2168
A350-03USEI90-250	350	1.65	1.65	250	1.65	1.65	48	1998
A500-03USEI90	500	1.65	1.65	500	1.65	1.65	54	2902
A500-03USEI90-350	500	1.65	1.65	350	1.65	1.65	54	2657

Item Number	Quadruplex USEI90 – 3 Phase Conductors Plus Neutral						Cable	
	Phase Conductor			Neutral Conductor			Diameter (mm)	Weight (kg/km)
	Size (AWG or kcmil)	Insulation Thickness (mm)	Jacket Thickness (mm)	Size (AWG or kcmil)	Insulation Thickness (mm)	Jacket Thickness (mm)		
A2-04USEI90-4	2	1.14	0.76	4	1.14	0.76	26	565
A1/0-04USEI90	1/0	1.40	1.14	1/0	1.40	1.14	33	1000
A1/0-04USEI90-2	1/0	1.40	1.14	2	1.14	0.76	33	903
A3/0-04USEI90-1/0	3/0	1.40	1.14	1/0	1.40	1.14	38	1322
A4/0-04USEI90	4/0	1.40	1.14	4/0	1.40	1.14	41	1726
A4/0-04USEI90-2/0	4/0	1.40	1.14	2/0	1.40	1.14	41	1593
A250-04USEI90	250	1.65	1.65	250	1.65	1.65	48	2212
A300-04USEI90-4/0	300	1.65	1.65	4/0	1.40	1.14	45	1706
A350-04USEI90	350	1.65	1.65	350	1.65	1.65	54	2890
A350-04USEI90-250	350	1.65	1.65	250	1.65	1.65	54	2721
A500-04USEI90	500	1.65	1.65	500	1.65	1.65	61	3869
A500-04USEI90-350	500	1.65	1.65	350	1.65	1.65	61	3624

### NOTES

- Dimensions and weights are subject to standard manufacturing tolerances and are subject to change without notice.

