

Copper Service Entrance Cable

Type SE Style R (SER), 600V 90°C



APPLICATION:

Copper SER cable is primarily used as panel feeder in multiple unit dwellings and for branch circuits. Maximum operating temperature is not to exceed 90°C in wet or dry locations. Voltage rating is 600 volts.

CONDUCTORS:

- Annealed soft copper class B stranded

INSULATION:

- Type XHHW-2 cross-linked polyethylene (XLPE) insulation

COLOR CODE:

Cond #	Color
2	Black and Red
3	Black, White, and Red

ASSEMBLY:

- Two or three insulated conductors and a bare ground conductor cabled together and covered with a reinforced binder tape

JACKET:

- Gray sunlight resistant polyvinyl chloride (PVC) jacket

STANDARDS:

- UL 44: Thermoset-Insulated Wires and Cables
- UL 854: Standard for Service-Entrance Cables
- ASTM B3, B8, B787
- National Electric Code

Part Number	Insulated Conductor		Bare Conductor		Nominal OD		Approx. Weight	Ampacity* 90°C
	No. x Size	Number of Strands	Size	Number of Strands	inches	mm		
	AWG/kcmil		AWG/kcmil				amps	
Two Conductor								
8-02CUG-SER	2 x 8	7	8	7	0.586	14.88	231	55
6-02CUG-SER	2 x 6	7	6	7	0.669	16.99	338	75
4-02CUG-R-SER	2 x 4	7	4	7	0.764	19.41	498	95
3-02CUG-R-SER	2 x 3	7	3	7	0.829	21.06	611	110
2-02CUG-R-SER	2 x 2	7	2	7	0.896	22.76	752	130
1-02CUG-R-SER	2 x 1	19	1	19	1.021	25.93	948	150
1/0-02CUG-R-SER	2 x 1/0	19	1/0	19	1.114	28.30	1169	170
2/0-02CUG-R-SER	2 x 2/0	19	2/0	19	1.209	30.71	1444	195
3/0-02CUG-R-SER	2 x 3/0	19	3/0	19	1.317	33.45	1792	225
4/0-02CUG-R-SER	2 x 4/0	19	4/0	19	1.438	36.53	2226	260

All values are nominal and subject to correction.

*Allowable Ampacities shown are for general use as specified by the National Electrical Code, 2023 Edition, Table 310.16



1-800-945-5542
www.PriorityWire.com



Copper Service Entrance Cable

Type SE Style R (SER), 600V 90°C



Part Number	Insulated Conductor		Bare Conductor		Nominal OD		Approx. Weight	Ampacity* 90°C
	No. x Size	Number of Strands	Size	Number of Strands	inches	mm		
	AWG/kcmil		AWG/kcmil				amps	
Three Conductor								
8-03CUG-SER	3 x 8	7	8	7	0.645	16.38	286	55
6-03CUG-SER	3 x 6	7	6	7	0.738	18.75	424	75
4-03CUG-R-SER	3 x 4	7	6	7	0.844	21.44	585	95
3-03CUG-R-SER	3 x 3	7	5	7	0.910	23.11	719	110
2-03CUG-R-SER	3 x 2	7	4	7	0.984	24.99	887	130
1-03CUG-R-SER	3 x 1	19	3	19	1.132	28.75	1117	150
1/0-03CUG-R-SER	3 x 1/0	19	2	19	1.235	31.37	1382	170
2/0-03CUG-R-SER	3 x 2/0	19	1	19	1.324	33.63	1713	195
3/0-03CUG-R-SER	3 x 3/0	19	1/0	19	1.462	37.13	2129	225
4/0-03CUG-R-SER	3 x 4/0	19	2/0	19	1.598	40.59	2650	260

All values are nominal and subject to correction.

*Allowable Ampacities shown are for general use as specified by the National Electrical Code, 2023 Edition, Table 310.16



Copper Service Entrance Cable

Type SE Style U (SEU), 600V 90°C



APPLICATION:

Copper SEU cable is Mainly used to convey power from the service drop to the meter base and from the meter base to the distribution panel board. SEU can also be used in certain branch circuits as permitted by the National Electric Code. Maximum operating temperature not to exceed 90°C in wet or dry locations, suitable for use at voltages up to 600 volts.

CONDUCTORS:

- Annealed soft copper class B stranded

INSULATION:

- Type XHHW-2 cross-linked polyethylene (XLPE) insulation

COLOR CODE:

Cond #	Color
2	Black and Red

ASSEMBLY:

- Two paralleled phase conductors surrounded by concentrically applied neutral wires and helically wrapped with a reinforced binder tape over the core

JACKET:

- Gray sunlight resistant polyvinyl chloride (PVC) jacket

STANDARDS:

- UL 44: Thermoset-Insulated Wires and Cables
- UL 854: Standard for Service-Entrance Cables
- ASTM B3, B8, B787
- National Electric Code

Part Number	Insulated Conductor		Bare Conductor		Nominal OD	Approx. Weight	Ampacity* 90°C
	No. x Size	Number of Strands	Size	Number of Strands			
	AWG/kcmil		AWG/kcmil		inches	lbs/kft	amps
Two Insulated Conductors							
8-02CUG-SEU	2 x 8	7	8	7	0.41 x 0.65	219	55
6-02CUG-R-SEU	2 x 6	7	8	7	0.45 x 0.73	289	75
6-02CUG-SEU	2 x 6	7	6	7	0.46 x 0.73	320	75
4-02CUG-R-SEU	2 x 4	7	6	7	0.50 x 0.83	428	95
4-02CUG-SEU	2 x 4	7	4	7	0.53 x 0.85	477	95
3-02CUG-R-SEU	2 x 3	7	4	7	0.56 x 0.91	552	110
3-02CUG-SEU	2 x 3	7	3	7	0.57 x 0.92	587	110
2-02CUG-R-SEU	2 x 2	7	4	7	0.59 x 0.97	645	130
2-02CUG-SEU	2 x 2	7	2	7	0.60 x 0.99	722	130
1-02CUG-SEU	2 x 1	19	1	19	0.67 x 1.11	910	150
1/0-02CUG-SEU	2 x 1/0	19	1/0	19	0.70 x 1.19	1124	170
2/0-02CUG-SEU	2 x 2/0	19	2/0	19	0.77 x 1.30	1394	195

All values are nominal and subject to correction.

*Allowable Ampacities shown are for general use as specified by the National Electrical Code, 2023 Edition, Table 310.16



1-800-945-5542
www.PriorityWire.com



©2023 Priority Wire & Cable
11-2023