

# TYPE SE STYLE R - ALUMINUM CONDUCTOR - 600V

## ENGINEERING SPECIFICATIONS

### Standards

Underwriters Laboratories® Standards UL-83, UL-854, UL-2556; Compact Stranded Aluminum Alloy 8000 Series per ASTM B800, ASTM B801, ASTM B836; Federal Specifications AA-59544; NFPA 70 (NEC®) Article 230, 338; NEMA RV-4 2012; ARRA 2009 Section 1605 "Buy American" Compliant; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #E - 174428



Listed E-174428



## CONSTRUCTION

### Conductors

Compact Stranded Conductors, Aluminum Alloy 8000 Series per ASTM B800, ASTM B801 and ASTM B836

### Insulation

High-dielectric strength, heat and moisture-resistant, black or colored Polyvinyl Chloride (PVC), rated for continuous use at 90°C wet or dry, meeting the requirements of UL-83 for THHN/THWN-2 and UL-44 for XHHW-2

### Cable Jacket

A tough gray, sunlight and fungus-resistant PVC outer covering

### Grounding/Neutral Conductor

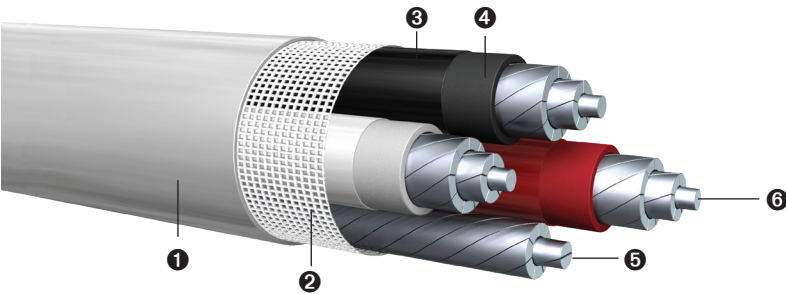
Compact Stranded Conductors, Aluminum Alloy 8000 Series per ASTM B800, B801 and B836

### Assembly

Inner conductors are insulated Aluminum Alloy 8000 Series per ASTM B800, B801, and B836, Type THHN/THWN-2. Ground/neutral conductor is stranded bare aluminum. Insulated conductors and bare ground/neutral conductor are cabled together to form a round inner core. All conductors are wrapped with glass-reinforced tape shield. Overall thermoplastic jacket is protective and sunlight-resistant PVC in accordance with UL-854.

## APPLICATIONS

For above ground electrical installations from the service disconnection means, to a remote distribution panel in single-family dwellings, two-family and multi-family dwelling units. Type SE Style R can be used for interior wiring as branch circuits to ranges, ovens, cooking units, or clothes dryers. This cable is manufactured in accordance with Underwriters Laboratories UL-854 and installed in accordance with Article 338 of the National Electrical Code. Type SE Style R is approved for installation in accordance with Articles 215, 225 and 230 of the NEC and has a 600-volt rating.



- 1 PVC Jacket
- 2 Glass-Reinforced Tape Shield
- 3 Nylon Jacket
- 4 PVC Insulation
- 5 Bare Ground Conductor AA-8000 Series
- 6 Compact Stranded Conductor, AA-8000 Series

Conductor Sizes (includes Ground) (AWG or KCMIL)	Insulated Phase Conductors		Ground / Neutral		Nominal Diameter (in)	Approximate Net Weight (lbs/1000 ft)	Allowable Ampacity (Amps)			Standard Packaging (ft)
	Sizes (AWG)	No. of Strands	Sizes (AWG)	No. of Strands			60°C	75°C	90°C	
8-8-8	8-8	7	8	7	0.512	99	35	40	45	500' 1000' Reels
6-6-6	6-6	7	6	7	0.620	142	40	50	55	500' 1000' Reels
4-4-6	4-4	7	6	7	0.755	196	55	65	75	500' 1000' Reels
4-4-4	4-4	7	4	7	0.762	212	55	65	75	500' 1000' Reels
2-2-4	2-2	7	4	7	0.721	168	75	90	100	500' 1000' Reels
2-2-2	2-2	7	2	7	0.728	274	75	90	100	500' 1000' Reels
2/0-2/0-1	2/0-2/0	12	1	8	1.128	515	115	135	150	500' 1000' Reels
2/0-2/0-2/0	2/0-2/0	12	2/0	12	1.135	521	115	135	150	500' 1000' Reels
4/0-4/0-2/0	4/0-4/0	19	2/0	12	1.353	716	150	180	205	500' 1000' Reels
4/0-4/0-4/0	4/0-4/0	19	4/0	19	1.360	722	150	180	205	500' 1000' Reels
8-8-8-8	8-8-8	7	8	7	0.569	129	35	40	45	500' 1000' Reels
6-6-6-6	6-6-6	7	6	7	0.690	185	40	50	55	500' 1000' Reels
4-4-4-6	4-4-4	7	6	7	0.815	259	55	65	75	500' 1000' Reels
2-2-2-4	2-2-2	7	4	7	0.950	364	75	90	100	500' 1000' Reels
1-1-1-3	1-1-1	8	3	7	1.082	448	85	100	115	500' 1000' Reels
1/0-1/0-1/0-2	1/0-1/0-1/0	10	2	7	1.150	546	100	120	135	500' 1000' Reels
2/0-2/0-2/0-1	2/0-2/0-2/0	12	1	8	1.250	652	115	135	150	500' 1000' Reels
3/0-3/0-3/0-1/0	3/0-3/0-3/0	15	1/0	10	1.320	792	130	155	175	500' 1000' Reels
4/0-4/0-4/0-2/0	4/0-4/0-4/0	19	2/0	12	1.425	965	150	180	205	500' 1000' Reels
250-250-250-3/0	250-250-250	22	3/0	15	1.580	1186	170	205	230	500' 1000' Reels
300-300-300-4/0	300-300-300	21	4/0	19	1.851	1388	195	230	260	500' 1000' Reels
6-6-6-6-6	6-6-6-6	7	6	7	0.700	225	40	50	55	500' 1000' Reels
4-4-4-4-6	4-4-4-4	7	6	7	0.848	330	55	65	75	500' 1000' Reels
2-2-2-2-4	2-2-2-2	7	4	7	1.005	459.89	75	90	100	500' 1000' Reels
1-1-1-1-3	1-1-1-1	8	3	7	1.110	569	85	100	115	500' 1000' Reels
1/0-1/0-1/0-1/0-2	1/0-1/0-1/0-1/0	10	2	7	1.205	693	100	120	135	500' 1000' Reels
2/0-2/0-2/0-2/0-1	2/0-2/0-2/0-2/0	12	1	8	1.389	830	115	135	150	500' 1000' Reels
3/0-3/0-3/0-3/0-1/0	3/0-3/0-3/0-3/0	15	1/0	10	1.425	1010	130	155	175	500' 1000' Reels
4/0-4/0-4/0-4/0-2/0	4/0-4/0-4/0-4/0	19	2/0	12	1.653	1235	150	180	205	500' 1000' Reels
250-250-250-250-3/0	250-250-250-250	22	3/0	15	1.742	1505	170	205	230	500' 1000' Reels
300-300-300-300-4/0	300-300-300-300	21	4/0	19	2.050	1759	195	230	260	500' 1000' Reels

For 120/240V-volt, Single Phase Dwelling Services and Feeders see Section 310.15(B)(7) of the National Electrical Code. The above data is approximate and subject to manufacturing tolerances.

#### PRINT LEGEND:

8 AWG THROUGH 300 KCMIL: ENCORE WIRE CORP TYPE SE STYLE R THHN OR THWN AA-8000 AL CDRS 600 VOLTS (NO. OF CDRS)(SIZE) + 1 CDR (SIZE) (UL) DATE/TIME/OPER/QC

800.962.9473

www.encorewire.com

