

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; RoHS Compliant; MasterSpec Division 26 Sections 260519, 260523; UL Listing #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

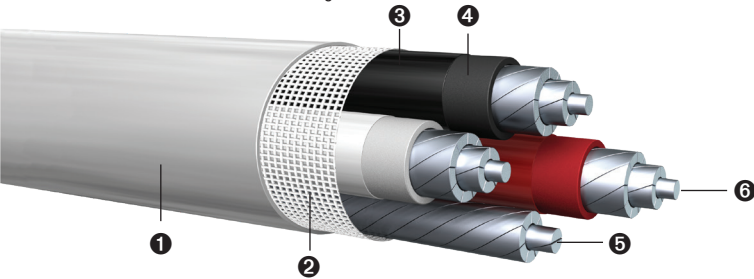
Compact Stranded Conductors, Aluminum Alloy 8000 Series per ASTM B800, B801 and B836

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-2 CDRS 600 V (NO. OF CDRS) CDRS (SIZE) AA-8000 AL 1 CDR (SIZE) AA-8000 AL (UL) ((CDR SIZE1) - (CDR SIZE2) - (CDR SIZE3) - (CDR SIZE4) - (GND/NEU SIZE) DATE/TIME/OPER/QC