



Triplex 600 Volt RHH/RHW-2 or USE-2 AlumaFlex® Underground Service Entrance

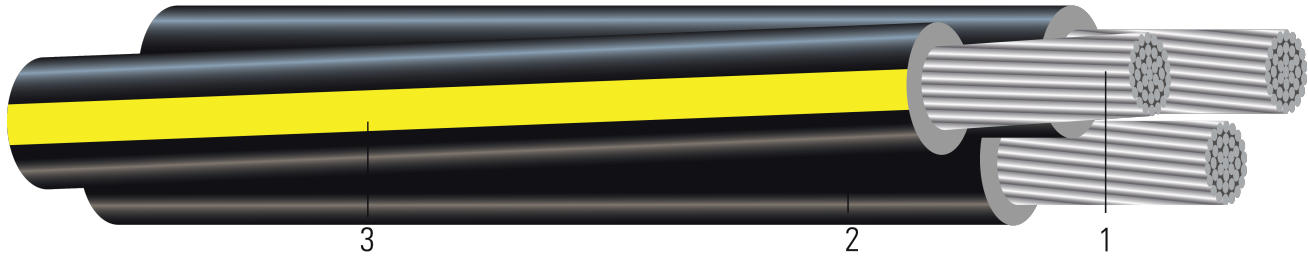


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are stranded, compressed Triple E per ASTM 800 and 801
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type RHH/RHW-2 or USE-2
3. **Neutral:** Cross Linked Polyethylene (XLPE) with three Yellow Extruded Stripes (YES)

APPLICATIONS AND FEATURES:

Conductors are stranded, compressed aluminum Triple E AA8000 (8176-H24), insulated with cross-linked polyethylene Type RHH/RHW-2 or USE-2. Neutrals are identified by three yellow extruded stripes. Cables with "YES" neutrals have sequential footage markers. Conductors are durably surface printed for identification. Two-phase conductors and one neutral conductor are cabled together to produce the triplex cable configuration. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions.

SPECIFICATIONS:

- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- UL 44 Thermoset-Insulated Wires and Cables
- UL 854 Service Entrance Cable
- ICEA S-105-692 Standard For 600 Volt Single Layer Thermoset Insulated Utility Underground Distribution Cables





Table 1 – Weights and Measurements

Stock Number	Code Word	Phase Cond. Size	Phase Strand	Dia. Over Phase Conductor	Phase Insul. Thickness	Dia. Over Phase Insulation	Neutral Cond. Size	Neutral Strand	Neutral Insul. Thickness	Approx. OD	Approx. Weight
		AWG/Kcmil	No.	inch	mil	inch	AWG/Kcmil	No.	mil	inch	lb/1000ft
TBA	Vassar	4	7	0.225	60	0.345	4	6	60	0.747	268
TBA	Ramapo	2	7	0.282	60	0.402	2	6	60	0.870	386
378117	Stephens	2	7	0.282	60	0.402	4	6	60	0.883	261
426643 [^]	Brenau	1/0	9	0.361	80	0.521	2	6	60	1.105	388
378166	Brenau	1/0	9	0.361	80	0.521	2	6	60	1.123	411
650770	Bergen	1/0	9	0.361	80	0.521	1/0	7	80	1.123	471
378182	Converse	2/0	11	0.405	80	0.565	1	7	80	1.216	510
695924	Hunter	2/0	11	0.405	80	0.565	2/0	11	80	1.216	567
TBA	Hollins	3/0	19	0.456	80	0.616	1/0	7	80	1.333	868
TBA	Rockland	3/0	19	0.456	80	0.616	3/0	15	80	1.333	929
377127	Sweetbriar	4/0	18	0.512	80	0.672	2/0	11	80	1.438	742
TBA	Monmouth	4/0	19	0.512	80	0.672	4/0	17	80	1.454	1126
398982	Pratt	250	22	0.558	95	0.748	3/0	15	80	1.602	901
399063	Wesleyan	350	30	0.661	95	0.851	4/0	17	80	1.816	1168
TBA	Holyoke	500	37	0.789	95	0.979	300	18	95	2.117	2314
TBA	Rider	500	37	0.789	95	0.979	350	24	95	2.117	2367

All dimensions are nominal and subject to normal manufacturing tolerances

[^] HI-SCORE: Medium Density Polyethylene Insulation

Table 2 – Electrical and Engineering Data

Code Word	Phase Cond. Size	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity in Duct 90°C
	AWG/Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
Vassar	4	3.0	751	0.424	0.511	0.048	65 / 75
Ramapo	2	3.5	1194	0.266	0.320	0.045	90 / 100
Stephens	2	3.5	1194	0.266	0.320	0.045	90 / 100
Brenau	1/0	5.5	1900	0.167	0.201	0.044	120 / 135
Brenau	1/0	5.6	1900	0.167	0.201	0.044	120 / 135
Bergen	1/0	5.6	1900	0.167	0.201	0.044	120 / 135
Converse	2/0	6.1	2395	0.133	0.159	0.043	135 / 150
Hunter	2/0	6.1	2395	0.133	0.159	0.043	135 / 150
Hollins	3/0	6.7	3020	0.105	0.126	0.042	155 / 175
Rockland	3/0	6.7	3020	0.105	0.126	0.042	155 / 175
Sweetbriar	4/0	7.2	3808	0.084	0.100	0.041	180 / 205
Monmouth	4/0	7.3	3808	0.084	0.100	0.041	180 / 205
Pratt	250	8.0	4500	0.071	0.086	0.041	205 / 230
Wesleyan	350	9.1	6300	0.050	0.062	0.040	250 / 280
Holyoke	500	12.7	9000	0.035	0.044	0.039	310 / 350
Rider	500	12.7	9000	0.035	0.044	0.039	310 / 350





- Notes:
1. Inductive reactance assumes cables are cradled in conduit, and the neutral is carrying no current.
 2. Conductors assumed to be reverse lay stranded, compressed construction.
 3. Phase spacing assumes cables are touching.
 4. Resistances shown are for the phase conductors only.
 5. Ampacities based upon 2023 NEC Table 310.16 Ampacities of Insulated Conductors with Not More Than Three Current-Carrying Conductors in Raceway, Cable, or Earth (Directly Buried)

