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

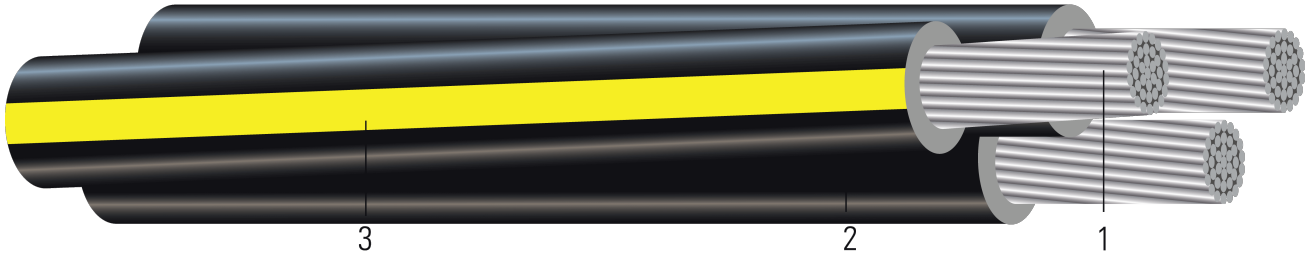

Image not to scale. See Table 1 for dimensions.

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

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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	0.745	183
378117	STEPHENS	2	7	0.283	63	0.409	4	6	60	0.883	262
554171	RAMAPO	2	7	0.283	63	0.409	2	6	60	0.883	292
426643^	BRENAU	1/0	9	0.362	80	0.522	2	6	60	1.106	389
378166	BRENAU	1/0	9	0.362	84	0.53	2	6	60	1.123	412
650770	BERGEN	1/0	9	0.362	84	0.53	1/0	7	80	1.123	472
378182	CONVERSE	2/0	11	0.405	84	0.573	1	7	80	1.216	510
695924	HUNTER	2/0	11	0.405	84	0.573	2/0	11	80	1.216	568
TBA	HOLLINS	3/0	19	0.456	80	0.616	1/0	7	80	1.331	637
TBA	ROCKLAND	3/0	19	0.456	80	0.616	3/0	15	80	1.331	695
377127	SWEETBRIAR	4/0	18	0.512	84	0.68	2/0	11	80	1.439	743
TBA	MONMOUTH	4/0	19	0.512	80	0.672	4/0	17	80	1.452	864
398982	PRATT	250	22	0.558	100	0.758	3/0	15	80	1.603	902
399063	WESLEYAN	350	30	0.661	100	0.861	4/0	17	80	1.817	1169
TBA	HOLYOKE	500	37	0.789	95	0.979	300	18	95	2.115	1807
TBA	RIDER	500	37	0.789	95	0.979	350	24	95	2.115	1854

All dimensions are nominal and subject to normal manufacturing tolerances
^ HI-SCORE: Medium Density Polyethylene Insulation
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

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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 or Buried 75/90°C
	AWG/Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
VASSAR	4	3	751	0.424	0.528	0.048	65/75
STEPHENS	2	3.5	1194	0.266	0.331	0.045	90/100
RAMAPO	2	3.5	1194	0.266	0.331	0.045	90/100
BRENAU	1/0	5.5	1900	0.167	0.208	0.044	120/135
BRENAU	1/0	5.6	1900	0.167	0.208	0.044	120/135
BERGEN	1/0	5.6	1900	0.167	0.208	0.044	120/135
CONVERSE	2/0	6.1	2395	0.133	0.166	0.043	135/150
HUNTER	2/0	6.1	2395	0.133	0.166	0.043	135/150
HOLLINS	3/0	6.7	3020	0.105	0.131	0.042	155/175
ROCKLAND	3/0	6.7	3020	0.105	0.131	0.042	155/175
SWEETBRIAR	4/0	7.2	3808	0.084	0.105	0.041	180/205
MONMOUTH	4/0	7.3	3808	0.084	0.105	0.041	180/205
PRATT	250	8	4500	0.07	0.087	0.041	205/230
WESLEYAN	350	9.1	6300	0.051	0.064	0.04	250/280
HOLYOKE	500	12.7	9000	0.036	0.045	0.039	310/350
RIDER	500	12.7	9000	0.036	0.045	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)

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