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

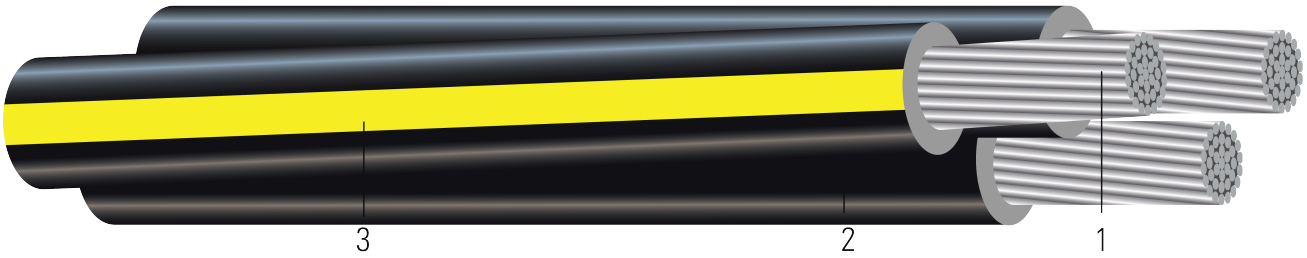

Image not to scale. See Table 1 for dimensions.

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	Dia. Over Neutral Insulation	Approx. OD	Approx. Weight
		AWG/ Kcmil	No.	inch	mil	inch	AWG/ Kcmil	No.	mil	inch	inch	lb/1000ft
TBA	Vassar	4	7	0.225	60	0.345	4	7	60	0.345	0.745	191
378117	Stephens	2	7	0.282	60	0.403	4	7	60	0.345	0.870	249
TBA	Ramapo	2	7	0.282	60	0.403	2	7	60	0.403	0.870	278
378166	Brenau	1/0	9	0.361	80	0.512	2	7	60	0.403	1.106	404
650770	Bergen	1/0	9	0.361	80	0.512	1/0	9	80	0.512	1.106	441
426643^	Brenau	1/0	9	0.361	80	0.512	1/0	9	80	0.512	1.106	441
378182	Converse	2/0	11	0.405	80	0.555	1	9	80	0.473	1.199	478
695924	Hunter	2/0	11	0.405	80	0.555	2/0	11	80	0.555	1.199	535
TBA	Hollins	3/0	17	0.456	80	0.603	1/0	9	80	0.512	1.302	581
TBA	Rockland	3/0	17	0.456	80	0.603	3/0	17	80	0.603	1.302	651
377127	Sweetbriar	4/0	18	0.512	80	0.658	2/0	11	80	0.555	1.421	709
TBA	Monmouth	4/0	18	0.512	80	0.658	4/0	18	80	0.658	1.421	796
398982	Pratt	250	22	0.558	95	0.732	3/0	17	80	0.603	1.581	853
399063	Wesleyan	350	30	0.661	95	0.831	4/0	18	80	0.658	1.795	1106
TBA	Holyoke	500	37	0.789	95	0.979	300	37	95	0.784	2.115	1545
TBA	Rider	500	37	0.789	95	0.979	350	30	95	0.831	2.115	1593

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	GMR	Allowable Ampacity in Duct 90°C	Allowable Ampacity Directly Buried 90°C
	AWG/ Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	ft	Amp	Amp
Vassar	4	3.0	751	0.424	0.511	0.048	0.007	75	75
Stephens	2	3.5	1194	0.266	0.320	0.045	0.009	100	100
Ramapo	2	3.5	1194	0.266	0.320	0.045	0.009	100	100
Brenau	1/0	5.5	1900	0.167	0.201	0.044	0.011	135	135
Bergen	1/0	5.5	1900	0.167	0.201	0.044	0.011	135	135
Brenau	1/0	5.5	1900	0.167	0.201	0.044	0.011	135	135
Converse	2/0	6.0	2395	0.133	0.159	0.043	0.012	150	150
Hunter	2/0	6.0	2395	0.133	0.159	0.043	0.012	150	150
Hollins	3/0	6.5	3020	0.105	0.126	0.042	0.014	175	175
Rockland	3/0	6.5	3020	0.105	0.126	0.042	0.014	175	175
Sweetbriar	4/0	7.1	3808	0.084	0.100	0.041	0.016	205	205
Monmouth	4/0	7.1	3808	0.084	0.100	0.041	0.016	205	205
Pratt	250	7.9	4500	0.071	0.086	0.041	0.017	230	230
Wesleyan	350	9.0	6300	0.050	0.062	0.040	0.020	320	415
Holyoke	500	12.7	9000	0.035	0.044	0.039	0.025	350	350
Rider	500	12.7	9000	0.035	0.044	0.039	0.025	350	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)