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

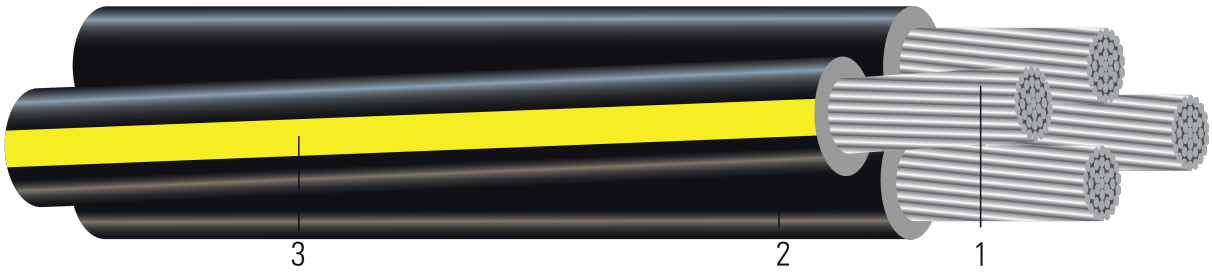


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are stranded, compressed Triple E AA8000 (8176-H24)
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)

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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. Three-phase conductors and one neutral conductor are cabled together to produce the quadruplex 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	TULSA	4	7	0.225	60	0.345	4	6	60	0.835	221
TBA	DYKE	2	7	0.283	60	0.403	4	6	60	0.975	319
TBA	WITTENBERG	2	7	0.283	60	0.403	2	6	60	0.975	342
TBA	NOTRE DAME	1/0	19	0.362	80	0.522	2	6	60	1.263	513
TBA	PURDUE	1/0	19	0.362	80	0.522	1/0	7	80	1.263	550
TBA	SYRACUSE	2/0	19	0.405	80	0.565	1	7	80	1.367	635
TBA	LAFAYETTE	2/0	19	0.405	80	0.565	2/0	11	80	1.367	682
TBA	SWARTHMORE	3/0	19	0.456	80	0.616	1/0	7	80	1.491	791
TBA	DAVIDSON	3/0	19	0.456	80	0.616	3/0	15	80	1.491	849
606898^	WAKE FOREST	4/0	18	0.512	80	0.672	2/0	11	80	1.588	977
691964	WAKE FOREST	4/0	18	0.512	84	0.68	2/0	11	80	1.608	1020
TBA	EARLHAM	4/0	19	0.512	80	0.672	4/0	17	80	1.626	1058
341974^	SLIPPERY ROCK	350	30	0.661	95	0.851	4/0	17	80	2.006	1547
TBA	MOREHOUSE	500	37	0.789	95	0.979	300	18	95	2.369	2266
TBA	WESTMINSTER	750	61	0.968	110	1.188	350	24	95	2.875	3362

All dimensions are nominal and subject to normal manufacturing tolerances
^ HI-SCORE: Medium Density Polyethylene Insulation
Notes:
1. The actual number of strands may differ for single input wire per ASTM B901
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
TULSA	4	3.3	1001	0.424	0.528	0.048	65/75
DYKE	2	3.9	1592	0.266	0.331	0.045	90/100
WITTENBERG	2	3.9	1592	0.266	0.331	0.045	90/100
NOTRE DAME	1/0	6.3	2534	0.167	0.208	0.044	120/135
PURDUE	1/0	6.3	2534	0.167	0.208	0.044	120/135
SYRACUSE	2/0	6.8	3194	0.133	0.166	0.043	135/150
LAFAYETTE	2/0	6.8	3194	0.133	0.166	0.043	135/150
SWARTHMORE	3/0	7.5	4027	0.105	0.131	0.042	155/175
DAVIDSON	3/0	7.5	4027	0.105	0.131	0.042	155/175
WAKE FOREST	4/0	7.9	5078	0.084	0.105	0.041	180/205
WAKE FOREST	4/0	8	5078	0.084	0.105	0.041	180/205
EARLHAM	4/0	8.1	5078	0.084	0.105	0.041	180/205
SLIPPERY ROCK	350	12	8400	0.051	0.064	0.04	250/280
MOREHOUSE	500	14.2	12000	0.036	0.045	0.039	310/350
WESTMINSTER	750	17.2	18000	0.023	0.03	0.038	385/435

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 are based on Table 310.15 (B)(16) of the NEC, 2017 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)

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