

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

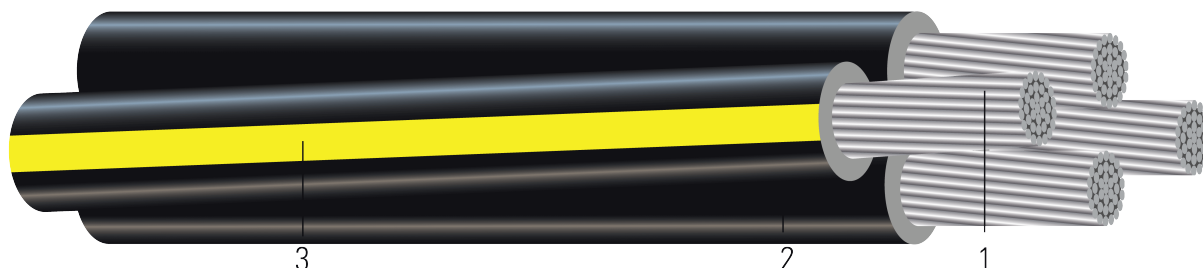


Image not to scale. See Table 1 for dimensions.

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



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	Tulsa	4	7	0.225	60	0.345	4	7	60	0.345	0.833	255
TBA	Dyke	2	7	0.282	60	0.403	4	7	60	0.345	0.973	342
TBA	Wittenberg	2	7	0.282	60	0.403	2	7	60	0.403	0.973	378
TBA	Notre Dame	1/0	9	0.361	80	0.512	2	7	60	0.403	1.236	534
TBA	Purdue	1/0	9	0.361	80	0.512	1/0	9	80	0.512	1.236	589
TBA	Syracuse	2/0	11	0.405	80	0.555	1	9	80	0.473	1.340	657
TBA	Lafayette	2/0	11	0.405	80	0.555	2/0	11	80	0.555	1.340	713
TBA	Swarthmore	3/0	17	0.456	80	0.603	1/0	9	80	0.512	1.456	798
TBA	Davidson	3/0	17	0.456	80	0.603	3/0	17	80	0.603	1.456	868
606898^	Wake Forest	4/0	18	0.512	80	0.555	2/0	11	80	0.555	1.588	972
TBA	Earlham	4/0	18	0.512	80	0.658	4/0	18	80	0.658	1.588	1062
691964	Wake Forest	4/0	18	0.512	80	0.658	2/0	11	80	0.555	1.588	1006
341974^	Slippery Rock	350	30	0.661	95	0.831	4/0	18	80	0.658	2.006	1547
TBA	Morehouse	500	37	0.789	95	0.831	300	37	95	0.784	2.363	2110
TBA	Westminster	750	61	0.968	110	0.98	350	30	95	0.831	2.868	3014

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



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
Tulsa	4	3.3	801	0.424	0.511	0.048	0.007	100	100
Dyke	2	3.9	1274	0.266	0.320	0.045	0.009	100	100
Wittenberg	2	3.9	1274	0.266	0.320	0.045	0.009	100	100
Notre Dame	1/0	6.2	2027	0.167	0.201	0.044	0.011	135	135
Purdue	1/0	6.2	2027	0.167	0.201	0.044	0.011	135	135
Syracuse	2/0	6.7	2555	0.133	0.159	0.043	0.012	150	150
Lafayette	2/0	6.7	2555	0.133	0.159	0.043	0.012	150	150
Swarthmore	3/0	7.3	3221	0.105	0.126	0.042	0.014	175	175
Davidson	3/0	7.3	3221	0.105	0.126	0.042	0.014	175	175
Wake Forest	4/0	7.9	4062	0.084	0.100	0.041	0.016	205	205
Earlham	4/0	7.9	4062	0.084	0.100	0.041	0.016	225	290
Wake Forest	4/0	7.9	4062	0.084	0.100	0.041	0.016	205	205
Slippery Rock	350	12.0	6720	0.050	0.062	0.040	0.020	280	280
Morehouse	500	14.2	9600	0.035	0.044	0.039	0.025	350	350
Westminster	750	17.2	14400	0.024	0.031	0.038	0.031	435	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)

