

Triple Parallel 600 Volt USE-2 Underground Service Entrance



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are stranded, compressed 1350-H16/H26 (3/4 Hard) aluminum
2. **Insulation:** Cross Linked Polyethylene (XLPE)
3. **Neutral:** Cross Linked Polyethylene (XLPE) with three Yellow Extruded Stripes (YES)

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APPLICATIONS AND FEATURES:

Conductors are stranded, compressed 1350-H16/H26 (3/4 Hard) aluminum, insulated with cross-linked polyethylene. 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 triple paralleled. 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 B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B609 Standard Specification for Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes
- ASTM B901 Standard Specification for Compressed Round Stranded Aluminum Conductors Using Single Input Wire Construction. (The number of strands for both phase and neutral may differ)
- 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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UPDATED: Dec. 11, 2023, 9:29 p.m. UTC REVISION: 1.000.000

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	Kittrell	8	7	0.141	60	0.262	8	7	60	0.262	0.785	95
TBA	Don Bosco	6	7	0.177	60	0.298	6	7	60	0.298	0.894	132
TBA	Asbury	4	7	0.225	60	0.345	4	7	60	0.345	1.035	189
TBA	Lasell	2	7	0.282	60	0.403	4	7	60	0.345	1.151	247
TBA	Sussex	2	7	0.282	60	0.403	2	7	60	0.403	1.209	275
TBA	Rosary	1/0	9	0.361	80	0.512	2	7	60	0.403	1.427	383
TBA	Luther	1/0	9	0.361	80	0.512	1/0	9	80	0.512	1.536	437
TBA	Peace	2/0	11	0.405	80	0.555	1	9	80	0.473	1.583	474
TBA	Lehman	2/0	11	0.405	80	0.555	2/0	11	80	0.555	1.665	530
TBA	Marywood	3/0	17	0.456	80	0.603	1/0	9	80	0.512	1.718	576
TBA	Nyack	3/0	17	0.456	80	0.603	3/0	17	80	0.603	1.809	645
TBA	Belmont	4/0	18	0.512	80	0.658	2/0	11	80	0.555	1.871	700
TBA	Glassboro	4/0	18	0.512	80	0.658	4/0	18	80	0.658	1.974	785
TBA	Baruch	250	22	0.558	80	0.732	3/0	17	80	0.603	2.067	844
TBA	Grinnell	350	30	0.661	80	0.831	4/0	18	80	0.658	2.320	1095
TBA	Antioch	500	34	0.789	95	0.956	300	37	95	0.784	2.696	1529
TBA	Trenton	500	34	0.789	95	0.956	350	30	95	0.831	2.752	1888

All dimensions are nominal and subject to normal manufacturing tolerances

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
Kittrell	8	3.1	297	1.071	1.290	0.052	0.004	55	70
Don Bosco	6	3.6	472	0.674	0.812	0.051	0.005	70	95
Asbury	4	5.2	751	0.424	0.511	0.048	0.007	90	125
Lasell	2	5.8	1194	0.266	0.320	0.045	0.009	120	165
Sussex	2	6.0	1194	0.266	0.320	0.045	0.009	120	165
Rosary	1/0	7.1	1900	0.167	0.201	0.044	0.011	160	215
Luther	1/0	7.7	1900	0.167	0.201	0.044	0.011	160	215
Peace	2/0	7.9	2395	0.133	0.159	0.043	0.012	180	245
Lehman	2/0	8.3	2395	0.133	0.159	0.043	0.012	180	245
Marywood	3/0	8.6	3020	0.105	0.126	0.042	0.014	205	280
Nyack	3/0	9.0	3020	0.105	0.126	0.042	0.014	205	280
Belmont	4/0	9.4	3808	0.084	0.100	0.041	0.016	240	315
Glassboro	4/0	9.9	3808	0.084	0.100	0.041	0.016	240	315
Baruch	250	12.4	4500	0.071	0.086	0.041	0.017	265	345
Grinnell	350	13.9	6300	0.050	0.062	0.040	0.020	320	415
Antioch	500	16.2	9000	0.035	0.044	0.039	0.025	395	495
Trenton	500	16.5	9000	0.035	0.044	0.039	0.025	395	495

Notes:

1. Inductive reactance assumes cables are cradled in conduit, and the neutral is carrying no current.
2. Triple parallel inductive reactance calculation assumes the phase conductors are adjacent to one another.
3. Conductors assumed to be reverse lay stranded, compressed construction.
4. Phase spacing assumes cables are touching.
5. Resistances shown are for the Phase conductors only.
6. Ampacity based on 90°C conductor temperature, 20°C ambient, RHO 90, 100% load factor.

