Triple Parallel 600 Volt USE-2 Underground Service Entrance

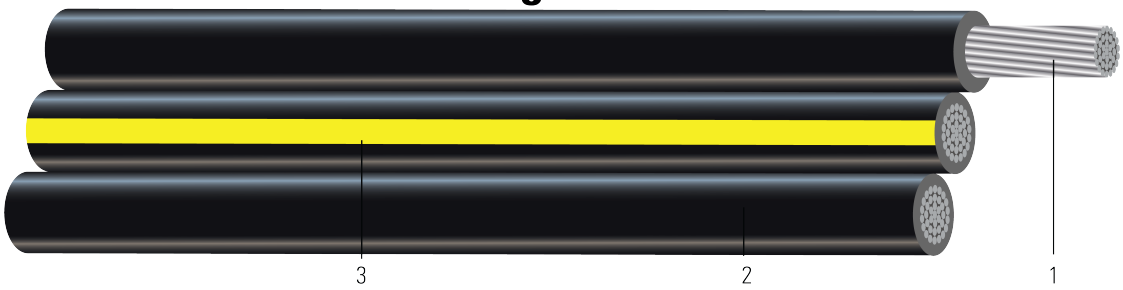

Image not to scale. See Table 1 for dimensions.

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

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	Approx. OD	Approx. Weight
		AWG/Kcmil	No.	inch	mil	inch	inch	lb/1000ft
TBA	Kittrell	8	7	0.141	60	0.261	0.566	136
TBA	Don Bosco	6	7	0.177	60	0.297	0.644	189
TBA	Asbury	4	7	0.225	60	0.345	0.747	268
TBA	Lasell	2	7	0.282	60	0.402	0.870	363
TBA	Sussex	2	7	0.282	60	0.402	0.870	386
TBA	Rosary	1/0	19	0.361	80	0.521	1.127	594
TBA	Luther	1/0	19	0.361	80	0.521	1.127	630
TBA	Peace	2/0	19	0.405	80	0.565	1.222	717
TBA	Lehman	2/0	19	0.405	80	0.565	1.222	762
TBA	Marywood	3/0	19	0.456	80	0.616	1.333	868
TBA	Nyack	3/0	19	0.456	80	0.616	1.333	929
TBA	Belmont	4/0	19	0.512	80	0.672	1.454	1054
TBA	Glassboro	4/0	19	0.512	80	0.672	1.454	1126
TBA	Baruch	250	37	0.558	95	0.748	1.618	1296
TBA	Grinnell	350	37	0.661	95	0.851	1.840	1698
TBA	Antioch	500	37	0.789	95	0.979	2.117	2314
TBA	Trenton	500	37	0.789	95	0.979	2.117	2367

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	Neutral Rated Breaking Strength	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity in Duct 90°C
	AWG/Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
Kittrell	8	2.3	297	1.071	1.290	0.052	40 / 45
Don Bosco	6	2.6	472	0.674	0.812	0.051	50 / 55
Asbury	4	3.0	751	0.424	0.511	0.048	65 / 75
Lasell	2	3.5	1194	0.266	0.320	0.045	90 / 100
Sussex	2	3.5	1194	0.266	0.320	0.045	90 / 100
Rosary	1/0	5.6	1900	0.167	0.201	0.044	120 / 135
Luther	1/0	5.6	1900	0.167	0.201	0.044	120 / 135
Peace	2/0	6.1	2395	0.133	0.159	0.043	135 / 150
Lehman	2/0	6.1	2395	0.133	0.159	0.043	135 / 150
Marywood	3/0	6.7	3020	0.105	0.126	0.042	155 / 175
Nyack	3/0	6.7	3020	0.105	0.126	0.042	155 / 175
Belmont	4/0	7.3	3808	0.084	0.100	0.041	180 / 205
Glassboro	4/0	7.3	3808	0.084	0.100	0.041	180 / 205
Baruch	250	8.1	4500	0.071	0.086	0.041	205 / 230
Grinnell	350	9.2	6300	0.050	0.062	0.040	250 / 280
Antioch	500	12.7	9000	0.035	0.044	0.039	310 / 350
Trenton	500	12.7	9000	0.035	0.044	0.039	310 / 350

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.