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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Table 1 – Weights and Measurements

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
KITTRELL	8	7	0.142	60	0.262	8	6	60	0.566	82
DON BOSCO	6	7	0.178	60	0.298	6	6	60	0.644	122
ASBURY	4	7	0.225	60	0.345	4	6	60	0.745	183
LASELL	2	7	0.283	60	0.403	4	6	60	0.87	258
SUSSEX	2	7	0.283	60	0.403	2	6	60	0.87	281
ROSARY	1/0	19	0.362	80	0.522	2	6	80	1.128	416
LUTHER	1/0	19	0.362	80	0.522	1/0	7	80	1.128	453
LEHMAN	2/0	19	0.405	80	0.565	2/0	11	80	1.22	560
PEACE	2/0	19	0.405	80	0.565	1	7	80	1.22	513
MARYWOOD	3/0	19	0.456	80	0.616	1/0	11	80	1.331	637
NYACK	3/0	19	0.456	80	0.616	3/0	15	80	1.331	695
BELMONT	4/0	19	0.512	80	0.672	2/0	11	80	1.452	791
GLASSBORO	4/0	19	0.512	80	0.672	4/0	17	80	1.452	864
BARUCH	250	37	0.558	95	0.748	3/0	15	95	1.616	957
GRINNELL	350	37	0.661	95	0.851	4/0	17	95	1.838	1291
ANTIOCH	500	37	0.789	95	0.979	300	18	95	2.115	1807
TRENTON	500	37	0.789	95	0.979	350	24	95	2.115	1854

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
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
KITTRELL	8	2.3	297	1.071	1.334	0.052	40/45
DON BOSCO	6	2.6	472	0.674	0.84	0.051	50/55
ASBURY	4	3	751	0.424	0.528	0.048	65/75
LASELL	2	3.5	1194	0.266	0.331	0.045	90/100
SUSSEX	2	3.5	1194	0.266	0.331	0.045	90/100
ROSARY	1/0	5.6	1900	0.167	0.208	0.044	120/135
LUTHER	1/0	5.6	1900	0.167	0.208	0.044	120/135
LEHMAN	2/0	6.1	2395	0.133	0.166	0.043	135/150
PEACE	2/0	6.1	2395	0.133	0.166	0.043	135/150
MARYWOOD	3/0	6.7	3020	0.105	0.131	0.042	155/175
NYACK	3/0	6.7	3020	0.105	0.131	0.042	155/175
BELMONT	4/0	7.3	3808	0.084	0.105	0.041	180/205
GLASSBORO	4/0	7.3	3808	0.084	0.105	0.041	180/205
BARUCH	250	8.1	4500	0.07	0.087	0.041	205/230
GRINNELL	350	9.2	6300	0.051	0.064	0.04	250/280
ANTIOCH	500	12.7	9000	0.036	0.045	0.039	310/350
TRENTON	500	12.7	9000	0.036	0.045	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.

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