PowerGlide Triplex 600 Volt Underground Service Entrance

Aluminum Conductor. Cross-linked Polyethylene (XLP) Insulation. HI-SCORE available upon request. Easy to Pull or Push.

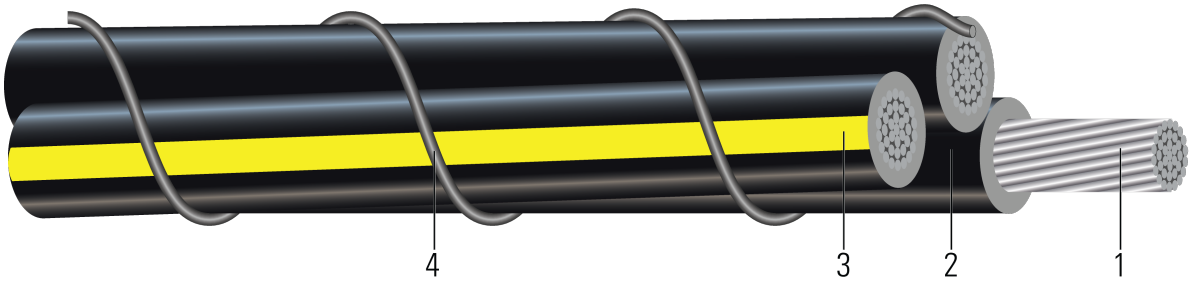

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are stranded, compressed 1350-H16/H26 (3/4 Hard) aluminum
2. **Insulation:** Cross Linked Polyethylene (XLPE). LLDPE or HDPE based polymers
3. **Neutral:** Cross Linked Polyethylene (XLPE) with three Yellow Extruded Stripes (YES)
4. **PowerGlide:** Engineered spiral-wrapped glide wire that reduces installation friction and maintains bundle integrity

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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 "YES". Cables with "YES" neutrals have sequential footage markers. Conductors are durably surface printed for identification. Two-phase conductors and one neutral conductor are cabled together to produce the triplex cable configuration. Twisted conductors are bound with an engineered spiral-wrapped glide wire that reduces installation friction and maintains bundle integrity. 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-81-570 Standard for 600 Volt Rated Cables of Ruggedized Design for Direct Burial Installations as Single Conductors or Assemblies of Single Conductors
- 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
BERGEN	1/0	19	0.362	80	0.522	1/0	7	80	1.128	453
BRENAU	1/0	19	0.362	80	0.522	2	6	60	1.128	416
HUNTER	2/0	19	0.405	80	0.565	2/0	11	80	1.22	560
CONVERSE	2/0	19	0.405	80	0.565	1	7	80	1.22	513
ROCKLAND	3/0	19	0.456	80	0.616	3/0	15	80	1.331	695
HOLLINS	3/0	19	0.456	80	0.616	1/0	7	80	1.331	637
MONMOUTH	4/0	19	0.512	80	0.672	4/0	17	80	1.452	864
SWEETBRIAR	4/0	19	0.512	80	0.672	2/0	11	80	1.452	791
PRATT	250	37	0.558	95	0.748	3/0	15	80	1.616	957
GLOUCESTER	350	37	0.661	95	0.851	3/0	15	80	1.838	1250
WESLEYAN	350	37	0.661	95	0.851	4/0	17	80	1.838	1291
RIDER	500	37	0.789	95	0.979	350	24	95	2.115	1854
HOLYOKE	500	37	0.789	95	0.979	300	18	95	2.115	1807
FAIRFIELD	750	61	0.968	110	1.188	500	30	95	2.566	2796

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.

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
BERGEN	1/0	5.6	1900	0.167	0.208	0.044	120/135
BRENAU	1/0	5.6	1900	0.167	0.208	0.044	120/135
HUNTER	2/0	6.1	2395	0.133	0.166	0.043	135/150
CONVERSE	2/0	6.1	2395	0.133	0.166	0.043	135/150
ROCKLAND	3/0	6.7	3020	0.105	0.131	0.042	155/175
HOLLINS	3/0	6.7	3020	0.105	0.131	0.042	155/175
MONMOUTH	4/0	7.3	3808	0.084	0.105	0.041	180/205
SWEETBRIAR	4/0	7.3	3808	0.084	0.105	0.041	180/205
PRATT	250	8.1	4500	0.07	0.087	0.041	205/230
GLOUCESTER	350	9.2	6300	0.051	0.064	0.04	250/280
WESLEYAN	350	9.2	6300	0.051	0.064	0.04	250/280
RIDER	500	12.7	9000	0.036	0.045	0.039	310/350
HOLYOKE	500	12.7	9000	0.036	0.045	0.039	310/350
FAIRFIELD	750	15.4	13500	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. Triple parallel inductive reactance calculation assumes the phase conductors are adjacent to one another.
3. Conductors assumed to be reverse lay stranded, compact construction.
4. Phase spacing assumes cables are touching.

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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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