

# PowerGlide Triplex 600 Volt Underground Service Entrance

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

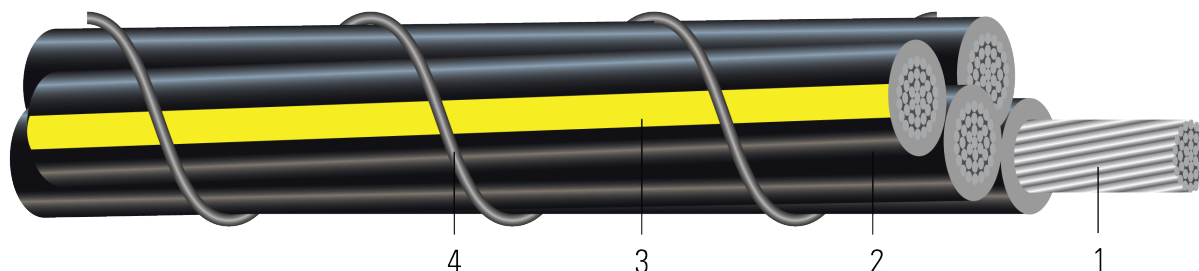


Image not to scale. See Table 1 for dimensions.

## 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

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	Bergen	1/0	9	0.361	80	0.512	1/0	9	80	0.512	1.106	441
TBA	Brenau	1/0	9	0.361	80	0.512	2	7	60	0.403	1.106	387
TBA	Hunter	2/0	11	0.405	80	0.555	2/0	11	80	0.555	1.199	535
TBA	Converse	2/0	11	0.405	80	0.555	1	9	80	0.473	1.199	478
TBA	Rockland	3/0	17	0.456	80	0.603	3/0	17	80	0.603	1.302	651
TBA	Hollins	3/0	17	0.456	80	0.603	1/0	9	80	0.512	1.302	581
TBA	Monmouth	4/0	18	0.512	80	0.658	4/0	18	80	0.658	1.421	796
TBA	Sweetbriar	4/0	18	0.512	80	0.658	2/0	11	80	0.555	1.421	709
TBA	Pratt	250	22	0.558	80	0.732	3/0	17	80	0.603	1.581	853
TBA	Gloucester	350	30	0.661	95	0.831	3/0	18	80	0.658	1.795	1071
TBA	Wesleyan	350	30	0.661	95	0.831	4/0	18	80	0.658	1.795	1106
TBA	Rider	500	34	0.789	95	0.956	350	30	95	0.831	1.912	1888
TBA	Holyoke	500	34	0.789	95	0.956	300	37	95	0.784	1.912	1830
TBA	Fairfield	750	61	0.968	110	1.158	500	37	80	0.949	2.136	2784

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
Bergen	1/0	5.5	1900	0.167	0.201	0.044	0.011	160	215
Brenau	1/0	5.5	1900	0.167	0.201	0.044	0.011	160	215
Hunter	2/0	6.0	2395	0.133	0.159	0.043	0.012	180	245
Converse	2/0	6.0	2395	0.133	0.159	0.043	0.012	180	245
Rockland	3/0	6.5	3020	0.105	0.126	0.042	0.014	205	280
Hollins	3/0	6.5	3020	0.105	0.126	0.042	0.014	205	280
Monmouth	4/0	7.1	3808	0.084	0.100	0.041	0.016	240	315
Sweetbriar	4/0	7.1	3808	0.084	0.100	0.041	0.016	240	315
Pratt	250	7.9	4500	0.071	0.086	0.041	0.017	265	345
Gloucester	350	9.0	6300	0.050	0.062	0.040	0.020	320	415
Wesleyan	350	9.0	6300	0.050	0.062	0.040	0.020	320	415
Rider	500	9.6	9000	0.035	0.044	0.039	0.025	395	495
Holyoke	500	9.6	9000	0.035	0.044	0.039	0.025	395	495
Fairfield	750	12.8	13500	0.024	0.031	0.038	0.031	495	620

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.

