



# PowerGlide Quadruplex 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 polymer
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 786 19 Wire Combination Unilay-Stranded Aluminum Conductors
- 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





**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	Approx. OD	Approx. Weight
		AWG/Kcmil	No.	inch	mil	inch	AWG/Kcmil	No.	mil	inch	lb/1000ft
TBA	Notre Dame	1/0	19	0.361	80	0.521	2	6	60	1.263	683
TBA	Purdue	1/0	19	0.361	80	0.521	1/0	7	80	1.263	719
TBA	Syracuse	2/0	19	0.405	80	0.565	1	7	80	1.369	824
TBA	Lafayette	2/0	19	0.405	80	0.565	2/0	11	80	1.369	869
TBA	Swarthmore	3/0	19	0.456	80	0.616	1/0	7	80	1.493	1000
TBA	Davidson	3/0	19	0.456	80	0.616	3/0	15	80	1.493	1061
TBA	Wake Forest	4/0	19	0.512	80	0.672	2/0	11	80	1.628	1216
TBA	Earlham	4/0	19	0.512	80	0.672	4/0	17	80	1.628	1288
TBA	Slippery Rock	350	37	0.661	95	0.851	4/0	17	80	2.061	1961
TBA	Morehouse	500	37	0.789	95	0.979	300	18	95	2.371	2680
TBA	Wabash	750	61	0.968	110	1.158	4/0	17	80	2.698	3441
TBA	Westminster	750	61	0.968	110	1.188	350	24	95	2.877	3954

All dimensions are nominal and subject to normal manufacturing tolerances

Notes:

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	Allowable Ampacity in Duct 90°C
	AWG/Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
Notre Dame	1/0	6.3	2027	0.167	0.201	0.044	96 / 108
Purdue	1/0	6.3	2027	0.167	0.201	0.044	96 / 108
Syracuse	2/0	6.8	2555	0.133	0.159	0.043	108 / 120
Lafayette	2/0	6.8	2555	0.133	0.159	0.043	108 / 120
Swarthmore	3/0	7.5	3221	0.105	0.126	0.042	124 / 140
Davidson	3/0	7.5	3221	0.105	0.126	0.042	124 / 140
Wake Forest	4/0	8.1	4062	0.084	0.100	0.041	144 / 164
Earlham	4/0	8.1	4062	0.084	0.100	0.041	144 / 164
Slippery Rock	350	12.4	6720	0.050	0.062	0.040	200 / 224
Morehouse	500	14.2	9600	0.035	0.044	0.039	248 / 280
Wabash	750	16.2	14400	0.024	0.031	0.038	470
Westminster	750	17.3	14400	0.024	0.031	0.038	308 / 348

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.

