Triplex 600 Volt USE-2 HI-SCORE Underground Service Entrance or Street Lighting

Aluminum Conductor. HI-SCORE Cross-linked Polyethylene (XLP) Insulation.

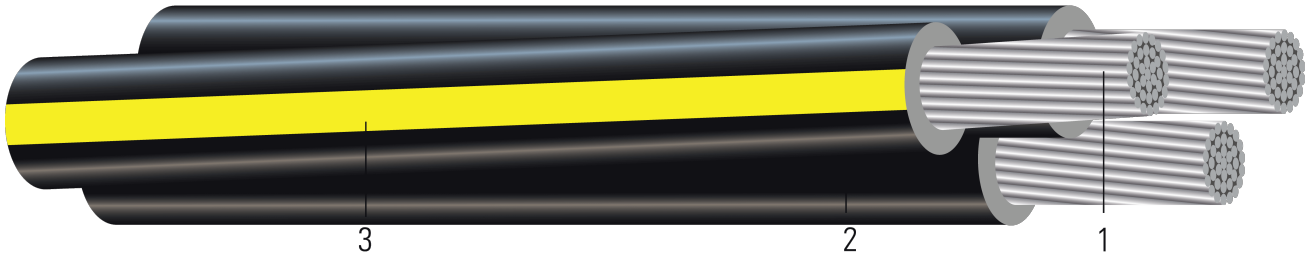


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are stranded, compressed 1350-H16/H26 (3/4 Hard) aluminum
2. **Insulation:** Rugged Cross Linked Polyethylene (XLPE) meeting the requirements of ANSI/ICEA S-81-570. LLDPE and HDPE or MDPE
3. **Neutral:** Cross Linked Polyethylene (XLPE) with three Yellow Extruded Stripes (YES)

For information about our Cable-Rejuvenation Services please visit us at: Cable-Rejuvenation Services
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APPLICATIONS AND FEATURES:

Conductors are stranded, compressed 1350-H16/H26 (3/4 Hard) aluminum, insulated with cross-linked polyethylene. Especially suited for applications requiring superior resistance to mechanical damage. 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 cabled together to produce the triplex cable configuration. 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. UL listed as USE-2 per UL 854 Service-Entrance Cables. These wet-rated cables can be direct buried underground or installed in a duct to power high-intensity street lighting circuits.

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	Approx. OD	Approx. Weight
		AWG/ Kcmil	No.	inch	mil	inch	AWG/ Kcmil	No.	mil	inch	lb/1000ft
308411	ERSKINE	6	7	0.178	60	0.298	6	6	60	0.644	133
618576	VASSAR	4	7	0.225	60	0.345	4	6	60	0.745	190
607483	STEPHENS	2	7	0.283	60	0.403	4	6	60	0.87	247
TBA	RAMAPO	2	7	0.283	60	0.403	2	6	60	0.87	281
308452	BRENAU	1/0	9	0.362	80	0.522	2	6	60	1.106	389
TBA	BERGEN	1/0	19	0.362	80	0.522	1/0	7	80	1.128	453
308478	CONVERSE	2/0	11	0.405	80	0.565	1	7	80	1.199	482
308486	HUNTER	2/0	11	0.405	80	0.565	2/0	11	80	1.199	538
308494	HOLLINS	3/0	17	0.456	80	0.616	1/0	7	80	1.302	581
TBA	ROCKLAND	3/0	19	0.456	80	0.616	3/0	15	80	1.331	695
612667	SWEETBRIAR	4/0	18	0.512	80	0.672	2/0	11	80	1.421	709
308510	SWEETBRIAR	4/0	18	0.512	80	0.672	2/0	11	80	1.421	709
TBA	MONMOUTH	4/0	19	0.512	80	0.672	4/0	17	80	1.452	864
310748	PRATT	250	26	0.558	95	0.748	3/0	15	80	1.581	859
322073	GLOUCESTER	350	30	0.661	95	0.851	3/0	15	80	1.795	1071
308544	WESLEYAN	350	30	0.661	95	0.851	4/0	17	80	1.795	1120
619996	WESLEYAN	350	30	0.661	95	0.851	4/0	18	80	1.795	1120
656744	RIDER	500	37	0.789	95	0.979	350	24	95	2.052	1596
309211	RIDER	500	37	0.789	95	0.979	350	33	95	2.052	1596
TBA	HOLYOKE	500	37	0.789	95	0.979	300	18	95	2.115	1807
TBA	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.

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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
ERSKINE	6	2.6	472	0.674	0.84	0.051	50/55
VASSAR	4	3	751	0.424	0.528	0.048	65/75
STEPHENS	2	3.5	1194	0.266	0.331	0.045	90/100
RAMAPO	2	3.5	1194	0.266	0.331	0.045	90/100
BRENAU	1/0	5.5	1900	0.167	0.208	0.044	120/135
BERGEN	1/0	5.6	1900	0.167	0.208	0.044	120/135
CONVERSE	2/0	6	2395	0.133	0.166	0.043	135/150
HUNTER	2/0	6	2395	0.133	0.166	0.043	135/150
HOLLINS	3/0	6.5	3020	0.105	0.131	0.042	155/175
ROCKLAND	3/0	6.7	3020	0.105	0.131	0.042	155/175
SWEETBRIAR	4/0	7.1	3808	0.084	0.105	0.041	180/205
SWEETBRIAR	4/0	7.1	3808	0.084	0.105	0.041	180/205
MONMOUTH	4/0	7.3	3808	0.084	0.105	0.041	180/205
PRATT	250	7.9	4500	0.07	0.087	0.041	205/230
GLOUCESTER	350	9	6300	0.051	0.064	0.04	250/280
WESLEYAN	350	9	6300	0.051	0.064	0.04	250/280
WESLEYAN	350	9	6300	0.051	0.064	0.04	250/280
RIDER	500	12.3	9000	0.036	0.045	0.039	310/350
RIDER	500	12.3	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, 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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