Triplex 600 Volt USE-2 Underground Service Entrance

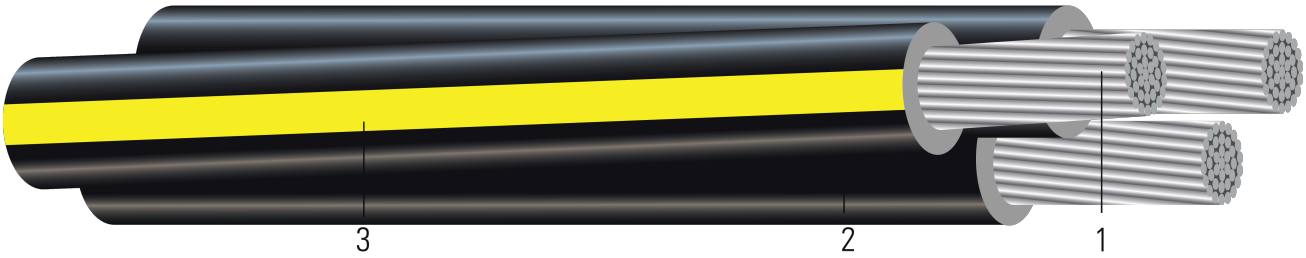

Image not to scale. See Table 1 for dimensions.

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 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.

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
- Buy American: Compliant with Buy American Requirements, found in 49 U.S.C. § 5323(j); specify "Made in the USA Only!" when ordering to ensure your project receives American made products.

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
277996	Erskine	6	7	0.177	60	0.297	6	6	60	0.643	131
241661	Vassar	4	7	0.225	60	0.345	4	6	60	0.744	188
272641	Stephens	2	7	0.282	60	0.402	4	6	60	0.870	245
272658	Ramapo	2	7	0.282	60	0.402	2	6	60	0.870	274
554174		2	7	0.282	60	0.402	2	6	60	0.870	274
205724	Brenau	1/0	9	0.361	80	0.521	2	6	60	1.105	387
272674	Bergen	1/0	9	0.361	80	0.521	1/0	7	80	1.105	443
243311	Converse	2/0	11	0.405	80	0.565	1	7	80	1.198	480
272682	Hunter	2/0	11	0.405	80	0.565	2/0	11	80	1.198	536
267500	Hollins	3/0	17	0.456	80	0.616	1/0	7	80	1.302	579
272690	Rockland	3/0	17	0.456	80	0.616	3/0	15	80	1.302	647
237024	Sweetbriar	4/0	18	0.512	80	0.672	2/0	11	80	1.421	706
142679	Molloy	4/0	18	0.512	80	0.672	1/0	7	80	1.421	675
272708	Monmouth	4/0	18	0.512	80	0.672	4/0	17	80	1.421	791
272716	Pratt	250	22	0.558	95	0.748	3/0	15	80	1.568	852
242511	Wesleyan	350	30	0.661	95	0.851	4/0	17	80	1.794	1116
613823^	Wesleyan	350	30	0.661	95	0.851	4/0	17	80	1.794	1120
272732		500	37	0.760	95	0.950	350	33	95	2.052	1592
309211^^	Rider	500	37	0.789	95	0.979	350	24	95	2.052	1595
TBA	Holyoke	500	37	0.789	95	0.979	300	18	95	2.117	2314

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
2. ^ Sureseal® a visco-elastic sealant that provides self sealing of the cable.
3. ^^ USE-2 Listed. HiScore
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
Erskine	6	2.6	472	0.674	0.812	0.051	50 / 55
Vassar	4	3.0	751	0.424	0.511	0.048	65 / 75
Stephens	2	3.5	1194	0.266	0.320	0.045	90 / 100
Ramapo	2	3.5	1194	0.266	0.320	0.045	90 / 100
	2	3.5	1194	0.266	0.320	0.045	90 / 100
Brenau	1/0	5.5	1900	0.167	0.201	0.044	120 / 135
Bergen	1/0	5.5	1900	0.167	0.201	0.044	120 / 135
Converse	2/0	6.0	2395	0.133	0.159	0.043	135 / 150
Hunter	2/0	6.0	2395	0.133	0.159	0.043	135 / 150
Hollins	3/0	6.5	3020	0.105	0.126	0.042	155 / 175
Rockland	3/0	6.5	3020	0.105	0.126	0.042	155 / 175
Sweetbriar	4/0	7.1	3808	0.084	0.100	0.041	180 / 205
Molloy	4/0	7.1	3808	0.084	0.100	0.041	180 / 205
Monmouth	4/0	7.1	3808	0.084	0.100	0.041	180 / 205
Pratt	250	7.8	4500	0.071	0.086	0.041	205 / 230
Wesleyan	350	9.0	6300	0.050	0.062	0.040	250 / 280
Wesleyan	350	9.0	6300	0.050	0.062	0.040	250 / 280
	500	12.3	9000	0.035	0.044	0.039	310 / 350
Rider	500	12.3	9000	0.035	0.044	0.039	310 / 350
Holyoke	500	12.7	9000	0.035	0.044	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.