

Triplex 600 Volt USE-2 Underground Service Entrance

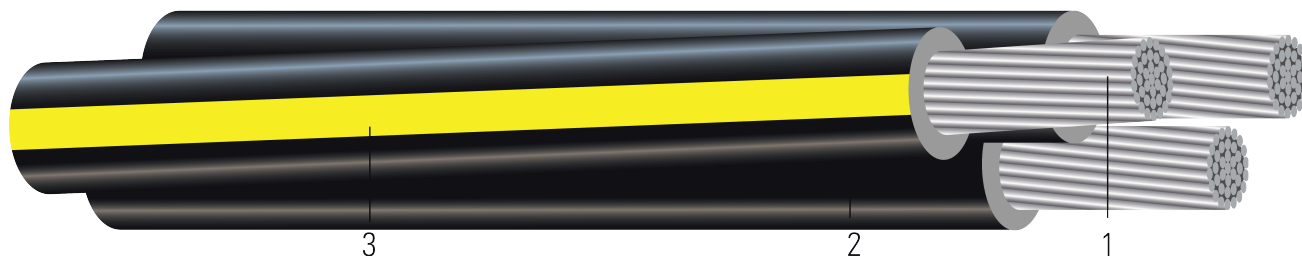


Image not to scale. See Table 1 for dimensions.

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.

Novinium, a Southwire Company, offers CableCure® XLG™ services to extend the life of secondary underground 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	Dia. Over Neutral Insulation	Approx. OD	Approx. Weight
		AWG/Kcmil	No.	inch	mil	inch	AWG/Kcmil	No.	mil	inch	inch	lb/1000ft
TBA	Blank	8	7	0.141	60	0.262	8	7	60	0.262	0.565	193
277996	Erskine	6	7	0.177	60	0.298	6	7	60	0.298	0.644	134
241661	Vassar	4	7	0.225	60	0.345	4	7	60	0.345	0.745	191
272641	Stephens	2	7	0.282	60	0.403	4	7	60	0.345	0.870	249
272658	Ramapo	2	7	0.282	60	0.403	2	7	60	0.403	0.870	278
205724	Brenau	1/0	9	0.361	80	0.512	2	7	60	0.403	1.106	387
272674	Bergen	1/0	9	0.361	80	0.512	1/0	9	80	0.512	1.106	441
243311	Converse	2/0	11	0.405	80	0.555	1	9	80	0.473	1.199	478
272682	Hunter	2/0	11	0.405	80	0.555	2/0	11	80	0.555	1.199	535
267500	Hollins	3/0	17	0.456	80	0.603	1/0	9	80	0.512	1.302	581
272690	Rockland	3/0	17	0.456	80	0.603	3/0	17	80	0.603	1.302	651
142679	Molloy	4/0	18	0.512	80	0.658	1/0	9	80	0.512	1.421	676
237024	Sweetbriar	4/0	18	0.512	80	0.658	2/0	11	80	0.555	1.421	709
272708	Monmouth	4/0	18	0.512	80	0.658	4/0	18	80	0.658	1.421	796
272716	Pratt	250	22	0.558	80	0.732	3/0	17	80	0.603	1.581	853
242511	Wesleyan	350	30	0.661	95	0.831	4/0	18	80	0.658	1.795	1106
613823 [^]	Wesleyan	350	30	0.661	95	0.831	4/0	18	80	0.658	1.795	1106
TBA	Holyoke	500	37	0.789	95	0.979	300	37	95	0.784	2.115	1545
309211 ^{^^}	Rider	500	34	0.789	95	0.956	350	30	95	0.831	2.115	1605

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



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
Blank	8	2.3	297	1.071	1.290	0.052	0.004	55	70
Erskine	6	2.6	472	0.674	0.812	0.051	0.005	70	95
Vassar	4	3.0	751	0.424	0.511	0.048	0.007	90	125
Stephens	2	3.5	1194	0.266	0.320	0.045	0.009	120	165
Ramapo	2	3.5	1194	0.266	0.320	0.045	0.009	120	165
Brenau	1/0	5.5	1900	0.167	0.201	0.044	0.011	160	215
Bergen	1/0	5.5	1900	0.167	0.201	0.044	0.011	160	215
Converse	2/0	6.0	2395	0.133	0.159	0.043	0.012	180	245
Hunter	2/0	6.0	2395	0.133	0.159	0.043	0.012	180	245
Hollins	3/0	6.5	3020	0.105	0.126	0.042	0.014	205	280
Rockland	3/0	6.5	3020	0.105	0.126	0.042	0.014	205	280
Molloy	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
Monmouth	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
Wesleyan	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
Holyoke	500	12.7	9000	0.035	0.044	0.039	0.025	395	495
Rider	500	12.7	9000	0.035	0.044	0.039	0.025	395	495

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.

