

Triplex 600V Secondary UD

Aluminum Conductors. Cross-linked Polyethylene (XLP) Insulation.



APPLICATIONS

Used for secondary distribution and underground service at 600 volts or less, either direct burial or in ducts.

SPECIFICATIONS

Southwire's triplex or paralleled 600 volt secondary UD cable meets or exceeds the following applicable ASTM specifications:

- B-230 Aluminum 1350-H19 Wire for Electrical Purposes.
- B-231 Aluminum 1350 Conductors, Concentric-Lay-Stranded.
- B-609 Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes.
- B-901 Compressed Round Stranded Aluminum Conductors Using Single Input Wire.

Southwire's triplex 600 volt secondary UD cable meets or exceeds all applicable requirements of ICEA S-105-692 for cross-linked polyethylene insulated conductors and UL Standard 854 for Type USE-2.

CONSTRUCTION

Conductors are stranded, compressed 1350-H19, H16, or H26 aluminum, insulated with vulcanized interlinked polyethylene (VIP¹), Southwire's cross-linked polyethylene. Neutrals are triple yellow extruded stripe. 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. Conductors are also available paralleled.

¹ VIP is a registered trademark of Southwire Company for cross-linked polyethylene(XLP).

Triplex 600V

| Code Word | Phase Conductor | | | Neutral | | | Diameter (mils) | | Weight Per 1000 feet (lbs.) | Allowable Ampacities+ | |
|---|-----------------|-----------|----------------------|------------|-----------|----------------------|--------------------|----------------|-----------------------------|-----------------------|----------|
| | Size (AWG) | Stranding | Insul. Thick. (mils) | Size (AWG) | Stranding | Insul. Thick. (mils) | Single Phase Cond. | Complete Cable | | Direct Burial | In Ducts |
| TRIPLEXED WITH YELLOW EXTRUDED STRIPE NEUTRAL. | | | | | | | | | | | |
| Erskine | 6 | 7 | 60 | 6 | 7 | 60 | 298 | 644 | 134 | 95 | 70 |
| Vassar | 4 | 7 | 60 | 4 | 7 | 60 | 345 | 745 | 191 | 125 | 90 |
| Stephens | 2 | 7 | 60 | 4 | 7 | 60 | 403 | 870 | 249 | 165 | 120 |
| Ramapo | 2 | 7 | 60 | 2 | 7 | 60 | 403 | 870 | 278 | 165 | 120 |
| Brenau | 1/0 | 9 | 80 | 2 | 7 | 60 | 512 | 1106 | 387 | 215 | 160 |
| Bergen | 1/0 | 9 | 80 | 1/0 | 9 | 80 | 512 | 1106 | 441 | 215 | 160 |
| Converse | 2/0 | 11 | 80 | 1 | 9 | 80 | 555 | 1199 | 478 | 245 | 180 |
| Hunter | 2/0 | 11 | 80 | 2/0 | 11 | 80 | 555 | 1199 | 535 | 245 | 180 |
| Hollins | 3/0 | 17 | 80 | 1/0 | 9 | 80 | 603 | 1302 | 581 | 280 | 205 |
| Rockland | 3/0 | 17 | 80 | 3/0 | 17 | 80 | 603 | 1302 | 651 | 280 | 205 |
| Sweetbriar | 4/0 | 18 | 80 | 2/0 | 11 | 80 | 658 | 1421 | 709 | 315 | 240 |
| Monmouth | 4/0 | 18 | 80 | 4/0 | 18 | 80 | 658 | 1421 | 796 | 315 | 240 |
| Pratt | 250 | 26 | 95 | 3/0 | 17 | 80 | 732 | 1581 | 853 | 345 | 265 |
| Wesleyan | 350 | 37 | 95 | 4/0 | 18 | 80 | 831 | 1795 | 1118 | 415 | 320 |
| Holyoke | 500 | 37 | 95 | 300 | 37 | 95 | 980 | 2117 | 1545 | 495 | 395 |
| Rider | 500 | 37 | 95 | 350 | 37 | 95 | 980 | 2117 | 1598 | 495 | 395 |

+Ampacity: 90°C conductor temperature, 20°C ambient, RHO 90, 100% load factor for three conductor triplex with neutral carrying only unbalanced load. Technical data for cable with solid black neutral is identical to yellow extruded stripe data except for "YES" suffix to code word. Also available in paralleled construction. For NEC Applications, use NEC Table 310.16 Ampacities.

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|---|-----------------|------------|----------------------|------------|------------|----------------------|--------------------|----------------|-----------------------------|-----------------------|----------|
| | Size (AWG) | Strand-ing | Insul. Thick. (mils) | Size (AWG) | Strand-ing | Insul. Thick. (mils) | Single Phase Cond. | Complete Cable | | Direct Burial | In Ducts |
| TRIPLEXED WITH YELLOW EXTRUDED STRIPE NEUTRAL. | | | | | | | | | | | |
| Erskine | 6 | 7 | 60 | 6 | 7 | 60 | 298 | 644 | 134 | 95 | 70 |
| Vassar | 4 | 7 | 60 | 4 | 7 | 60 | 345 | 745 | 191 | 125 | 90 |
| Stephens | 2 | 7 | 60 | 4 | 7 | 60 | 403 | 870 | 249 | 165 | 120 |
| Ramapo | 2 | 7 | 60 | 2 | 7 | 60 | 403 | 870 | 278 | 165 | 120 |
| Brenau | 1/0 | 9 | 80 | 2 | 7 | 60 | 512 | 1106 | 387 | 215 | 160 |
| Bergen | 1/0 | 9 | 80 | 1/0 | 9 | 80 | 512 | 1106 | 441 | 215 | 160 |
| Converse | 2/0 | 11 | 80 | 1 | 9 | 80 | 555 | 1199 | 478 | 245 | 180 |
| Hunter | 2/0 | 11 | 80 | 2/0 | 11 | 80 | 555 | 1199 | 535 | 245 | 180 |
| Hollins | 3/0 | 17 | 80 | 1/0 | 9 | 80 | 603 | 1302 | 581 | 280 | 205 |
| Rockland | 3/0 | 17 | 80 | 3/0 | 17 | 80 | 603 | 1302 | 651 | 280 | 205 |
| Sweetbriar | 4/0 | 18 | 80 | 2/0 | 11 | 80 | 658 | 1421 | 709 | 315 | 240 |
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