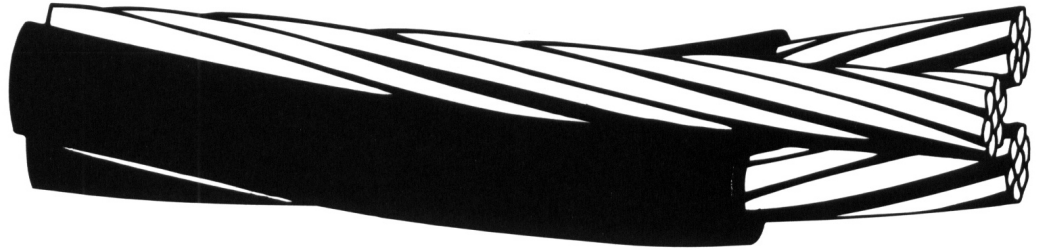


# Triplex Service Drop

Aluminum Conductors. Polyethylene or Crosslinked Polyethylene Insulation.



## APPLICATIONS

Used to supply power, usually from a pole-mounted transformer, to the user's service head where connection to the service entrance cable is made. To be used at voltages of 600 volts phase-to-phase or less and at conductor temperatures not to exceed 75°C for polyethylene insulated conductors or 90°C for crosslinked polyethylene (XLP) insulated conductors.

## SPECIFICATIONS

Southwire's triplex service drop cable meets or exceeds the following ASTM specifications:

- B-230 Aluminum Wire, 1350-H19 for Electrical Purposes.
- B-231 Aluminum Conductors, Concentric-Lay-Stranded.
- B-232 Aluminum Conductors, Concentric-Lay-Stranded, Coated Steel Reinforced(ACSR).
- B-399 Stranded 6201-T81 Aluminum Alloy Conductors.
- B-901 Compressed Round Stranded Aluminum Conductors Using Single Input Wire.

Southwire's triplex service drop cable meets or exceeds all applicable requirements of ANSI/ICEA S-76-474.

## CONSTRUCTION

Conductors are concentrically stranded, compressed 1350-H19 aluminum. Insulated with either polyethylene or crosslinked polyethylene (XLP). Neutral messengers are concentrically stranded 6201, AAC, or ACSR.

# Triplex Service Drop

| Code* Word                                                                                                                                                                                                                                                                                                                                                                      | Phase Conductor |             |                      | Bare Neutral Messenger |                |             |                       | Weight Per 1000 ft.(lbs.) |      | Allowable Ampacities+ |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------|------------------------|----------------|-------------|-----------------------|---------------------------|------|-----------------------|------|
|                                                                                                                                                                                                                                                                                                                                                                                 | Size (AWG)      | Strand- ing | Insul. Thick. (mils) | Equiv. Dia. (AWG)++    | Size++ (kcmil) | Strand- ing | Rated Strength (lbs.) | XLP                       | POLY | XLP                   | POLY |
| <b>6201 ALLOY NEUTRAL-MESSENGER</b>                                                                                                                                                                                                                                                                                                                                             |                 |             |                      |                        |                |             |                       |                           |      |                       |      |
| Minex                                                                                                                                                                                                                                                                                                                                                                           | 6               | 1           | 45                   | 6                      | 30.58          | 7           | 1110                  | 101                       | 101  | 85                    | 70   |
| Hippa                                                                                                                                                                                                                                                                                                                                                                           | 6               | 7           | 45                   | 6                      | 30.58          | 7           | 1110                  | 107                       | 107  | 85                    | 70   |
| Prawn                                                                                                                                                                                                                                                                                                                                                                           | 4               | 1           | 45                   | 4                      | 48.69          | 7           | 1760                  | 152                       | 152  | 115                   | 90   |
| Barnacle                                                                                                                                                                                                                                                                                                                                                                        | 4               | 7           | 45                   | 4                      | 48.69          | 7           | 1760                  | 160                       | 160  | 115                   | 90   |
| Shrimp                                                                                                                                                                                                                                                                                                                                                                          | 2               | 7           | 45                   | 2                      | 77.47          | 7           | 2800                  | 243                       | 243  | 150                   | 120  |
| Gammarus                                                                                                                                                                                                                                                                                                                                                                        | 1/0             | 7           | 60                   | 1/0                    | 123.3          | 7           | 4460                  | 390                       | 390  | 205                   | 160  |
| Leda                                                                                                                                                                                                                                                                                                                                                                            | 1/0             | 9           | 60                   | 1/0                    | 123.3          | 7           | 4460                  | 384                       | 384  | 205                   | 160  |
| Dungenese                                                                                                                                                                                                                                                                                                                                                                       | 2/0             | 7           | 60                   | 2/0                    | 155.4          | 7           | 5390                  | 483                       | 483  | 235                   | 185  |
| Cyclops                                                                                                                                                                                                                                                                                                                                                                         | 2/0             | 11          | 60                   | 2/0                    | 155.4          | 7           | 5390                  | 474                       | 474  | 235                   | 185  |
| Flustra                                                                                                                                                                                                                                                                                                                                                                         | 3/0             | 17          | 60                   | 3/0                    | 195.7          | 7           | 6790                  | 587                       | 587  | 275                   | 215  |
| Lepas                                                                                                                                                                                                                                                                                                                                                                           | 4/0             | 18          | 60                   | 4/0                    | 246.9          | 7           | 8560                  | 728                       | 728  | 315                   | 245  |
| *Code words for XLP insulated products are formed by adding "/XLP" to the conventional code words above (e.g.-Haiotis/XLP).<br>+Conductor temperature of 90°C for XLP, 75°C for Poly; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.<br>++Designated sizes are: ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTM B-399 for 6201. |                 |             |                      |                        |                |             |                       |                           |      |                       |      |

| Code* Word                                                                                                                                                                                                                                                                                                                                                                      | Phase Conductor |             |                      | Bare Neutral Messenger |              |             |                       | Weight Per 1000 ft. (lbs.) |      | Allowable Ampacities+ |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------|------------------------|--------------|-------------|-----------------------|----------------------------|------|-----------------------|------|
|                                                                                                                                                                                                                                                                                                                                                                                 | Size (AWG)      | Strand- ing | Insul. Thick. (mils) | Equiv. Dia. (AWG)++    | Size (kcmil) | Strand- ing | Rated Strength (lbs.) | XLP                        | POLY | XLP                   | POLY |
| <b>6201 ALLOY REDUCED NEUTRAL-MESSENGER</b>                                                                                                                                                                                                                                                                                                                                     |                 |             |                      |                        |              |             |                       |                            |      |                       |      |
| Artemia                                                                                                                                                                                                                                                                                                                                                                         | 4               | 1           | 45                   | 6                      | 30.58        | 7           | 1110                  | 135                        | 135  | 115                   | 90   |
| Crab                                                                                                                                                                                                                                                                                                                                                                            | 4               | 7           | 45                   | 6                      | 30.58        | 7           | 1110                  | 143                        | 143  | 115                   | 90   |
| Solaster                                                                                                                                                                                                                                                                                                                                                                        | 2               | 7           | 45                   | 4                      | 48.69        | 7           | 1760                  | 216                        | 216  | 150                   | 120  |
| Sandcrab                                                                                                                                                                                                                                                                                                                                                                        | 1/0             | 7           | 60                   | 2                      | 77.47        | 7           | 2800                  | 347                        | 347  | 205                   | 160  |
| Echinus                                                                                                                                                                                                                                                                                                                                                                         | 1/0             | 9           | 60                   | 2                      | 77.47        | 7           | 2800                  | 341                        | 341  | 205                   | 160  |
| Fulgar                                                                                                                                                                                                                                                                                                                                                                          | 3/0             | 17          | 60                   | 1/0                    | 123.3        | 7           | 4460                  | 519                        | 519  | 275                   | 215  |
| Arca                                                                                                                                                                                                                                                                                                                                                                            | 4/0             | 18          | 60                   | 2/0                    | 155.4        | 7           | 5390                  | 643                        | 643  | 315                   | 245  |
| *Code words for XLP insulated products are formed by adding "/XLP" to the conventional code words above (e.g.-Haiotis/XLP).<br>+Conductor temperature of 90°C for XLP, 75°C for Poly; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.<br>++Designated sizes are: ACSR 6/1 diameter equivalent and AAC with equivalent resistivity per ASTM B-399 for 6201. |                 |             |                      |                        |              |             |                       |                            |      |                       |      |

# Triplex Service Drop

| Code*<br>Word         | Phase Conductor           |                |                            | Bare<br>Neutral Messenger |                |                             | Weight<br>Per 1000 ft. (lbs.) |      | Allowable<br>Ampacities+ |      |
|-----------------------|---------------------------|----------------|----------------------------|---------------------------|----------------|-----------------------------|-------------------------------|------|--------------------------|------|
|                       | Size<br>(AWG or<br>kcmil) | Strand-<br>ing | Insul.<br>Thick.<br>(mils) | Size<br>(AWG or<br>kcmil) | Strand-<br>ing | Rated<br>Strength<br>(lbs.) | XLP                           | POLY | XLP                      | POLY |
| AAC NEUTRAL-MESSENGER |                           |                |                            |                           |                |                             |                               |      |                          |      |
| Patella               | 6                         | 7              | 45                         | 6                         | 7              | 563                         | 103                           | 103  | 85                       | 70   |
| Oyster                | 4                         | 7              | 45                         | 4                         | 7              | 881                         | 154                           | 154  | 115                      | 90   |
| Clam                  | 2                         | 7              | 45                         | 2                         | 7              | 1350                        | 233                           | 233  | 150                      | 120  |
| Murex                 | 1/0                       | 7              | 60                         | 1/0                       | 7              | 1990                        | 374                           | 374  | 205                      | 160  |
| Purpura               | 1/0                       | 9              | 60                         | 1/0                       | 7              | 1990                        | 368                           | 368  | 205                      | 160  |
| Nassa                 | 2/0                       | 7              | 60                         | 2/0                       | 7              | 2510                        | 462                           | 462  | 235                      | 185  |
| Melita                | 3/0                       | 17             | 60                         | 3/0                       | 19             | 3310                        | 562                           | 562  | 275                      | 215  |
| Portunus              | 4/0                       | 18             | 60                         | 4/0                       | 19             | 4020                        | 696                           | 696  | 315                      | 245  |
| Nannynose             | 336.4                     | 19             | 80                         | 336.4                     | 19             | 6146                        | 1118                          | 1118 | 420                      | 325  |

\* Code words for XLP insulated products are formed by adding "/XLP" to the conventional code words above (e.g.-Haiotis/XLP).

+ Conductor temperature of 90°C for XLP, 75°C for Poly; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

| Code*<br>Word          | Phase Conductor           |                |                            | Bare<br>Neutral Messenger |                |                             | Weight<br>Per 1000 ft. (lbs.) |      | Allowable<br>Ampacities+ |      |
|------------------------|---------------------------|----------------|----------------------------|---------------------------|----------------|-----------------------------|-------------------------------|------|--------------------------|------|
|                        | Size<br>(AWG or<br>kcmil) | Strand-<br>ing | Insul.<br>Thick.<br>(mils) | Size<br>(AWG or<br>kcmil) | Strand-<br>ing | Rated<br>Strength<br>(lbs.) | XLP                           | POLY | XLP                      | POLY |
| ACSR NEUTRAL-MESSENGER |                           |                |                            |                           |                |                             |                               |      |                          |      |
| Paludina               | 6                         | 1              | 45                         | 6                         | 6/1            | 1190                        | 109                           | 109  | 85                       | 70   |
| Voluta                 | 6                         | 7              | 45                         | 6                         | 6/1            | 1190                        | 114                           | 114  | 85                       | 70   |
| Whelk                  | 4                         | 1              | 45                         | 4                         | 6/1            | 1860                        | --                            | 164  | 115                      | 90   |
| Periwinkle             | 4                         | 7              | 45                         | 4                         | 6/1            | 1860                        | 172                           | 172  | 115                      | 90   |
| Conch                  | 2                         | 7              | 45                         | 2                         | 6/1            | 2850                        | 262                           | 262  | 150                      | 120  |
| Neritina               | 1/0                       | 7              | 60                         | 1/0                       | 6/1            | 4380                        | 420                           | 420  | 205                      | 160  |
| Cenia                  | 1/0                       | 9              | 60                         | 1/0                       | 6/1            | 4380                        | 414                           | 414  | 205                      | 160  |
| Runcina                | 2/0                       | 7              | 60                         | 2/0                       | 6/1            | 5310                        | 520                           | 520  | 235                      | 185  |
| Triton                 | 2/0                       | 11             | 60                         | 2/0                       | 6/1            | 5310                        | 512                           | 512  | 235                      | 185  |
| Mursia                 | 3/0                       | 17             | 60                         | 3/0                       | 6/1            | 6620                        | 635                           | 635  | 275                      | 215  |
| Zuzara                 | 4/0                       | 18             | 60                         | 4/0                       | 6/1            | 8350                        | 789                           | 789  | 315                      | 245  |
| Limpet                 | 336.4                     | 19             | 80                         | 336.4                     | 18/1           | 8680                        | 1167                          | 1167 | 420                      | 325  |

\*Code words for XLP insulated products are formed by adding "/XLP" to the conventional code words above (e.g.-Haiotis/XLP).

+Conductor temperature of 90°C for XLP, 75°C for Poly; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

# Triplex Service Drop

| Code*<br>Word                                                                                                                                                                                                                                             | Phase Conductor |                |                            | Bare<br>Neutral Messenger |                |                             | Weight<br>Per 1000 ft. (lbs.) |      | Allowable<br>Ampacities+ |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|----------------------------|---------------------------|----------------|-----------------------------|-------------------------------|------|--------------------------|------|
|                                                                                                                                                                                                                                                           | Size<br>(AWG)   | Strand-<br>ing | Insul.<br>Thick.<br>(mils) | Size<br>(AWG)             | Strand-<br>ing | Rated<br>Strength<br>(lbs.) | XLP                           | POLY | XLP                      | POLY |
| ACSR REDUCED NEUTRAL-MESSENGER                                                                                                                                                                                                                            |                 |                |                            |                           |                |                             |                               |      |                          |      |
| Scallop                                                                                                                                                                                                                                                   | 4               | 1              | 45                         | 6                         | 6/1            | 1190                        | --                            | 142  | 115                      | 90   |
| Strombus                                                                                                                                                                                                                                                  | 4               | 7              | 45                         | 6                         | 6/1            | 1190                        | 151                           | 151  | 115                      | 90   |
| Cockle                                                                                                                                                                                                                                                    | 2               | 7              | 45                         | 4                         | 6/1            | 1860                        | 228                           | 228  | 150                      | 120  |
| Janthina                                                                                                                                                                                                                                                  | 1/0             | 7              | 60                         | 2                         | 6/1            | 2853                        | 366                           | 366  | 205                      | 160  |
| Ranella                                                                                                                                                                                                                                                   | 1/0             | 9              | 60                         | 2                         | 6/1            | 2853                        | 360                           | 360  | 205                      | 160  |
| Cavolinia                                                                                                                                                                                                                                                 | 2/0             | 7              | 60                         | 1                         | 6/1            | 3550                        | 453                           | 453  | 235                      | 185  |
| Clio                                                                                                                                                                                                                                                      | 2/0             | 11             | 60                         | 1                         | 6/1            | 3550                        | 444                           | 444  | 235                      | 185  |
| Aega                                                                                                                                                                                                                                                      | 3/0             | 17             | 60                         | 1/0                       | 6/1            | 4380                        | 549                           | 549  | 275                      | 215  |
| Cerapus                                                                                                                                                                                                                                                   | 4/0             | 18             | 60                         | 2/0                       | 6/1            | 5310                        | 681                           | 681  | 315                      | 245  |
| *Code words for XLP insulated products are formed by adding "XLP" to the conventional code words above (e.g.-Haiotis/XLP).<br>+Conductor temperature of 90°C for XLP, 75°C for Poly; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun. |                 |                |                            |                           |                |                             |                               |      |                          |      |