

# Secondary URD Copper

XLPE Insulated, 600 V



A Viakable Company

## Features

- RUS accepted.
- Single conductors are UL Listed as Type USE-2.
- Excellent heat, ozone, oil and chemical resistance.
- Resistant to tear and abrasion.
- Suitable for direct burial.

## Application

- Used for secondary distribution and underground service at 600 volts or less.
- May be used in ducts or direct burial.

## Standards

- ICEA S-105-692
- 600 V Single Layer Thermoset Insulated Utility Underground Distribution Cable.
- UL 854
- Service Entrance Cables.

## Specifications

- Maximum operating voltage:
  - 600 volts
- Maximum conductor operation temperatures:
  - 90 °C wet and dry

## Engineering Information

**1. Conductor:** Soft annealed copper, solid per ASTM B3, Class B, compressed stranding or unilay compressed per ASTM B8.

**2. Separator:** A suitable opaque tape, as required.

### 3. Insulation

**Phase Conductor:** Black thermoset cross-linked polyethylene (XLPE).

**Neutral conductor:** Black thermoset cross-linked polyethylene (XLPE), with three yellow extruded stripes.

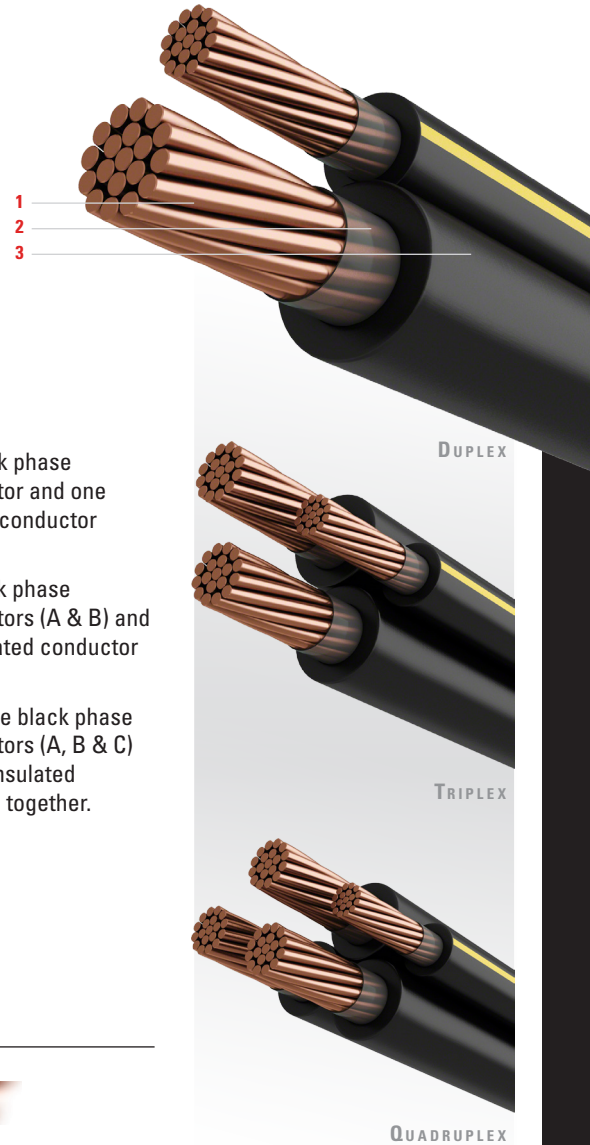
**Conductor Phase ID:** Ink printed.

## Configurations

**Duplex:** One black phase insulated conductor and one neutral insulated conductor cabled together.

**Triplex:** Two black phase insulated conductors (A & B) and one neutral insulated conductor cabled together.

**Quadruplex:** Three black phase insulated conductors (A, B & C) and one neutral insulated conductor cabled together.



## Technical Data

### Duplex XLPE Insulated, 600 V

| Size<br>AWG or<br>kcmil | Phase Conductor         |                                | Neutral Conductor       |                         |                                | Cable OD            |                      | Weight XLPE<br>lb/kft |
|-------------------------|-------------------------|--------------------------------|-------------------------|-------------------------|--------------------------------|---------------------|----------------------|-----------------------|
|                         | Number<br>of<br>Strands | Insulation<br>Thickness<br>mil | Size<br>AWG or<br>kcmil | Number<br>of<br>Strands | Insulation<br>Thickness<br>mil | Single Phase<br>mil | Complete Cable<br>in |                       |
| 8-7/w                   | 7                       | 60                             | 8                       | 7                       | 60                             | 0.27                | 0.53                 | 138                   |
| 6-7/w                   | 7                       | 60                             | 6                       | 7                       | 60                             | 0.30                | 0.60                 | 207                   |
| 4-7/w                   | 7                       | 60                             | 4                       | 7                       | 60                             | 0.35                | 0.70                 | 313                   |

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.  
**Ampacities:** Refer to beginning of section.

Technical Data *continued*

### Triplex XLPE Insulated, 600 V

| Phase Conductor         |                         |                         | Neutral Conductor       |                         |                         | Cable OD            |                      | Weight XLPE<br>lb/kft |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------|----------------------|-----------------------|
| Size<br>AWG or<br>kcmil | Number<br>of<br>Strands | Insulation<br>Thickness | Size<br>AWG or<br>kcmil | Number<br>of<br>Strands | Insulation<br>Thickness | Single Phase<br>mil | Complete Cable<br>in |                       |
|                         |                         | mil                     |                         |                         | mil                     |                     |                      |                       |
| 6-7/w                   | 7                       | 60                      | 6                       | 7                       | 60                      | 0.30                | 0.65                 | 311                   |
| 4-7/w                   | 7                       | 60                      | 4                       | 7                       | 60                      | 0.35                | 0.75                 | 470                   |
| 2-7/w                   | 7                       | 60                      | 4                       | 7                       | 60                      | 0.41                | 0.87                 | 637                   |
| 2-7/w                   | 7                       | 60                      | 2                       | 7                       | 60                      | 0.41                | 0.87                 | 721                   |
| 1-19/w                  | 19                      | 80                      | 3                       | 7                       | 60                      | 0.49                | 1.05                 | 813                   |
| 1/0-19/w                | 19                      | 80                      | 2                       | 7                       | 60                      | 0.53                | 1.13                 | 1,007                 |
| 1/0-19/w                | 19                      | 80                      | 1/0                     | 19                      | 80                      | 0.53                | 1.13                 | 1,151                 |
| 2/0-19/w                | 19                      | 80                      | 1                       | 19                      | 80                      | 0.57                | 1.23                 | 1,262                 |
| 2/0-19/w                | 19                      | 80                      | 2/0                     | 19                      | 80                      | 0.57                | 1.23                 | 1,428                 |
| 2/0-19/w                | 19                      | 80                      | 2/0                     | 19                      | 80                      | 0.57                | 1.23                 | 1,428                 |
| 2/0-19/w                | 19                      | 80                      | 2/0                     | 19                      | 80                      | 0.57                | 1.23                 | 1,428                 |
| 3/0-19/w                | 19                      | 80                      | 1/0                     | 19                      | 80                      | 0.62                | 1.34                 | 1,568                 |
| 3/0-19/w                | 19                      | 80                      | 3/0                     | 19                      | 80                      | 0.62                | 1.34                 | 1,776                 |
| 4/0-19/w                | 19                      | 80                      | 2/0                     | 19                      | 80                      | 0.68                | 1.46                 | 2,199                 |
| 4/0-19/w                | 19                      | 80                      | 4/0                     | 19                      | 80                      | 0.68                | 1.46                 | 2,213                 |
| 4/0-19/w                | 19                      | 80                      | 4/0                     | 19                      | 80                      | 0.68                | 1.46                 | 2,213                 |
| 250-37/w                | 37                      | 95                      | 3/0                     | 19                      | 80                      | 0.75                | 1.62                 | 2,342                 |
| 350-37/w                | 37                      | 95                      | 4/0                     | 19                      | 80                      | 0.85                | 1.84                 | 3,148                 |
| 350-37/w                | 37                      | 95                      | 350                     | 37                      | 95                      | 0.85                | 1.84                 | 3,615                 |
| 350-37/w                | 37                      | 95                      | 350                     | 37                      | 95                      | 0.85                | 1.84                 | 3,615                 |
| 500-37/w                | 37                      | 95                      | 300                     | 37                      | 95                      | 0.98                | 2.12                 | 4,433                 |
| 500-37/w                | 37                      | 95                      | 350                     | 37                      | 95                      | 0.98                | 2.12                 | 4,598                 |

### Quadruplex XLPE Insulated, 600 V

| Phase Conductor         |                         |                         | Neutral Conductor       |                         |                         | Cable OD            |                      | Weight XLPE<br>lb/kft |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------|----------------------|-----------------------|
| Size<br>AWG or<br>kcmil | Number<br>of<br>Strands | Insulation<br>Thickness | Size<br>AWG or<br>kcmil | Number<br>of<br>Strands | Insulation<br>Thickness | Single Phase<br>mil | Complete Cable<br>in |                       |
|                         |                         | mil                     |                         |                         | mil                     |                     |                      |                       |
| 6-7/w                   | 7                       | 60                      | 6                       | 7                       | 60                      | 0.30                | 0.73                 | 414                   |
| 4-7/w                   | 7                       | 60                      | 4                       | 7                       | 60                      | 0.35                | 0.84                 | 627                   |
| 2-7/w                   | 7                       | 60                      | 4                       | 7                       | 60                      | 0.35                | 0.98                 | 877                   |
| 2-7/w                   | 7                       | 60                      | 2                       | 7                       | 60                      | 0.41                | 0.98                 | 961                   |
| 1-19/w                  | 19                      | 80                      | 3                       | 7                       | 60                      | 0.38                | 1.17                 | 1,123                 |
| 1/0-19/w                | 19                      | 80                      | 2                       | 7                       | 60                      | 0.41                | 1.27                 | 1,391                 |
| 1/0-19/w                | 19                      | 80                      | 1/0                     | 19                      | 80                      | 0.53                | 1.27                 | 1,534                 |
| 2/0-19/w                | 19                      | 80                      | 1                       | 19                      | 80                      | 0.49                | 1.38                 | 1,738                 |
| 2/0-19/w                | 19                      | 80                      | 2/0                     | 19                      | 80                      | 0.57                | 1.38                 | 1,905                 |
| 3/0-19/w                | 19                      | 80                      | 1/0                     | 19                      | 80                      | 0.53                | 1.50                 | 2,160                 |
| 3/0-19/w                | 19                      | 80                      | 3/0                     | 19                      | 80                      | 0.62                | 1.50                 | 2,369                 |
| 4/0-19/w                | 19                      | 80                      | 2/0                     | 19                      | 80                      | 0.57                | 1.63                 | 2,689                 |
| 4/0-19/w                | 19                      | 80                      | 4/0                     | 19                      | 80                      | 0.68                | 1.63                 | 2,951                 |
| 250-37/w                | 37                      | 95                      | 3/0                     | 19                      | 80                      | 0.62                | 1.82                 | 3,217                 |
| 300-37/w                | 37                      | 95                      | 4/0                     | 19                      | 80                      | 0.68                | 1.95                 | 3,857                 |
| 350-37/w                | 37                      | 95                      | 4/0                     | 19                      | 80                      | 0.68                | 2.06                 | 4,353                 |
| 350-37/w                | 37                      | 95                      | 350                     | 37                      | 95                      | 0.85                | 2.06                 | 4,821                 |

The above data are approximate and subject to normal manufacturing tolerances. Other sizes available upon request.

**Ampacities:** Refer to beginning of section.