

# Quadruplex Service Drop Aluminum Conductor



## APPLICATION:

Quadruplex Service Drop Aluminum Conductor cable is designed for use to supply 3 phase 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 or less phase to phase and at conductor temperatures not to exceed 75°C for polyethylene insulated conductors or 90°C for cross linked Polyethylene (XLP) insulated conductors.

## CONDUCTORS:

- Concentric strand or compressed 1350-H19 series aluminum conductor

## MESSENGER:

- Concentric strand AAC, ACSR, or AAAC 6201 alloy bare neutral messenger

## INSULATION:

- Black cross linked polyethylene (XLP) insulation. Polyethylene (PE) insulation is available upon request.

## STANDARDS:

- ASTM B-230 Aluminum 1350–H19 Wire for Electrical Purposes
- ASTM B-231 Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B-232 Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR)
- ASTM B-399 Concentric-Lay-Stranded Aluminum-Alloy 6201-T81 Conductors
- ICEA S-76-474 Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600 Volts
- RUS Accepted

| Code Word                    | Phase Conductors  |        |                                   | Bare Neutral Messenger |         |                             | Completed Cable    |        |       | Ampacity**            |                        |
|------------------------------|-------------------|--------|-----------------------------------|------------------------|---------|-----------------------------|--------------------|--------|-------|-----------------------|------------------------|
|                              | Size<br>AWG/kcmil | Strand | Insulation<br>Thickness<br>inches | Size<br>AWG/kcmil      | Strand* | Breaking<br>Strength<br>lbs | Diameter<br>inches | Weight |       | XLP<br>90 ° C<br>amps | Poly<br>75 ° C<br>amps |
|                              |                   |        |                                   |                        |         |                             |                    | XLP    | Poly  |                       |                        |
| <b>AAC NEUTRAL MESSENGER</b> |                   |        |                                   |                        |         |                             |                    |        |       |                       |                        |
| -                            | 8                 | Solid  | 0.045                             | 8                      | 7       | 310                         | 0.49               | 94     | 93    | 55                    | 45                     |
| Clydesdale                   | 4                 | Solid  | 0.045                             | 4                      | 7       | 881                         | 0.68               | 208    | 201   | 100                   | 80                     |
| Pinto                        | 4                 | 7/w    | 0.045                             | 4                      | 7       | 881                         | 0.73               | 223    | 207   | 100                   | 80                     |
| Mustang                      | 2                 | 7/w    | 0.045                             | 2                      | 7       | 1,350                       | 0.88               | 333    | 312   | 135                   | 105                    |
| Criollo                      | 1/0               | 19/w   | 0.060                             | 1/0                    | 7       | 1,990                       | 1.12               | 529    | 504   | 180                   | 140                    |
| Percheron                    | 2/0               | 19/w   | 0.060                             | 2/0                    | 7       | 2,510                       | 1.24               | 649    | 620   | 205                   | 160                    |
| Hanoverian                   | 3/0               | 19/w   | 0.060                             | 3/0                    | 19      | 3,310                       | 1.36               | 799    | 765   | 235                   | 185                    |
| Oldenburg                    | 4/0               | 19/w   | 0.060                             | 4/0                    | 19      | 4,020                       | 1.50               | 986    | 946   | 275                   | 210                    |
| Lippizaner                   | 336.4             | 19/w   | 0.080                             | 336.4                  | 19      | 6,146                       | 1.91               | 1,546  | 1,519 | 370                   | 280                    |

All values are nominal and subject to correction

\*Designated sizes are ACSR 6/1, diameter, equivalent resistivity per ASTM B399 for 6201.

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

1-800-945-5542  
www.PriorityWire.com



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| Code Word                           | Phase Conductors  |        |                                   | Bare Neutral Messenger |         |                             | Completed Cable    |                |                 | Ampacity**           |                       |
|-------------------------------------|-------------------|--------|-----------------------------------|------------------------|---------|-----------------------------|--------------------|----------------|-----------------|----------------------|-----------------------|
|                                     | Size<br>AWG/kcmil | Strand | Insulation<br>Thickness<br>inches | Size<br>AWG/kcmil      | Strand* | Breaking<br>Strength<br>lbs | Diameter<br>inches | Weight         |                 | XLP<br>90 °C<br>amps | Poly<br>75 °C<br>amps |
|                                     |                   |        |                                   |                        |         |                             |                    | XLP<br>lbs/kft | Poly<br>lbs/kft |                      |                       |
| <b>ACSR NEUTRAL MESSENGER</b>       |                   |        |                                   |                        |         |                             |                    |                |                 |                      |                       |
| Morchuca                            | 6                 | Solid  | 0.045                             | 6                      | 6/1     | 1,190                       | 0.58               | 152            | 147             | 75                   | 60                    |
| Chola                               | 6                 | 7/W    | 0.045                             | 6                      | 6/1     | 1,190                       | 0.62               | 162            | 151             | 75                   | 60                    |
| Morgan                              | 4                 | Solid  | 0.045                             | 4                      | 6/1     | 1,860                       | 0.69               | 226            | 220             | 100                  | 80                    |
| Hackney                             | 4                 | 7/W    | 0.045                             | 4                      | 6/1     | 1,860                       | 0.74               | 241            | 226             | 100                  | 80                    |
| Palomino                            | 2                 | 7/W    | 0.045                             | 2                      | 6/1     | 2,850                       | 0.89               | 362            | 342             | 135                  | 105                   |
| Costena                             | 1/0               | 19/W   | 0.060                             | 1/0                    | 6/1     | 4,380                       | 1.14               | 575            | 550             | 180                  | 140                   |
| Grullo                              | 2/0               | 19/W   | 0.060                             | 2/0                    | 6/1     | 5,310                       | 1.26               | 707            | 678             | 205                  | 160                   |
| Suffolk                             | 3/0               | 19/W   | 0.060                             | 3/0                    | 6/1     | 6,620                       | 1.38               | 872            | 838             | 235                  | 180                   |
| Appaloosa                           | 4/0               | 19/W   | 0.060                             | 4/0                    | 6/1     | 8,350                       | 1.52               | 1,079          | 1,039           | 275                  | 210                   |
| Bronco                              | 336.4             | 19/W   | 0.080                             | 336.4                  | 18/1    | 8,580                       | 1.92               | 1,613          | 1,568           | 370                  | 280                   |
| Gelding                             | 336.4             | 19/W   | 0.080                             | 4/0                    | 6/1     | 8,350                       | 1.85               | 1,548          | 1,494           | 370                  | 280                   |
| Hurricane                           | 500               | 37/w   | 0.080                             | 336.4                  | 26/7    | 14,100                      | 2.21               | 2,196          | 2,186           | 480                  | 360                   |
| <b>6201 ALLOY NEUTRAL MESSENGER</b> |                   |        |                                   |                        |         |                             |                    |                |                 |                      |                       |
| Bay                                 | 6                 | Solid  | 0.045                             | 6                      | 7       | 1,110                       | 0.59               | 145            | 140             | 75                   | 60                    |
| French Coach                        | 6                 | 7/w    | 0.045                             | 6                      | 7       | 1,110                       | 0.63               | 155            | 144             | 75                   | 60                    |
| German Coach                        | 4                 | Solid  | 0.045                             | 4                      | 7       | 1,760                       | 0.69               | 214            | 208             | 100                  | 80                    |
| Arabian                             | 4                 | 7/w    | 0.045                             | 4                      | 7       | 1,760                       | 0.74               | 229            | 214             | 100                  | 80                    |
| Belgian                             | 2                 | 7/w    | 0.045                             | 2                      | 7       | 2,800                       | 0.89               | 344            | 323             | 135                  | 105                   |
| Shetland                            | 1/0               | 19/w   | 0.060                             | 1/0                    | 7       | 4,460                       | 1.14               | 546            | 521             | 180                  | 140                   |
| Thoroughbred                        | 2/0               | 19/w   | 0.060                             | 2/0                    | 7       | 5,390                       | 1.26               | 670            | 641             | 205                  | 160                   |
| Trotter                             | 3/0               | 19/w   | 0.060                             | 3/0                    | 7       | 6,790                       | 1.38               | 825            | 791             | 135                  | 185                   |
| Walking                             | 4/0               | 19/w   | 0.060                             | 4/0                    | 7       | 8,560                       | 1.52               | 1,019          | 979             | 275                  | 210                   |

All values are nominal and subject to correction

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