

## Description

A twisted assembly, consisting of multiple aluminum phase conductors and one neutral conductor, each insulated with a low temperature, moisture resistant cross-linked polyethylene (XLPE) insulation that is formulated for a balance of flexibility and mechanical toughness, and a PVC jacket.

## Specifications

**CEA** CEA WCWG-04

## Ratings

-40°C

For 90°C Wet or Dry Operation.



## Design Parameters

### Conductor

- Multiple, Class B Compact, aluminum alloy 1350 per ASTM.

### Insulation

- High dielectric strength low temperature cross-linked polyethylene (XLPE) insulation, exhibiting an optimum balance of mechanical and electrical properties to assure extended cable life.

### Jacket

- Black low-temperature polyvinyl chloride (PVC) is extruded over each conductor.

### Assembly

- Full or reduced neutral conductor, insulated and jacketed, Class B Compact concentric strand aluminum alloy 1350 per ASTM, twisted together with the phase conductors.

## Options

- Colored jacket
- Polyethylene-insulated USC75

## Installations



Conduit in Air



Direct Buried



Underground Duct



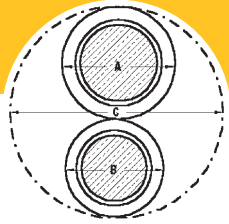
Wet Locations



Dry Locations



Utility Secondary



# USC90

600 Volt

| Product Number                         | Phase Conductors | Neutral Conductor |         | Insulation Thickness (mils) |         | Jacket Thickness (mils) |                | Approximate Diameter (mm) |       |     | Cable Weight (kg/km) | † Ampacity (Amps) |
|--|------------------|-------------------|---------|-----------------------------|---------|-------------------------|----------------|---------------------------|-------|-----|----------------------|-------------------|
|  |                  | Phase             | Neutral | Phase                       | Neutral | (A)<br>Phase            | (B)<br>Neutral | (C)<br>Overall            |       |     |                      |                   |
| <b>600 Volt Aluminum Two Conductor</b> |                  |                   |         |                             |         |                         |                |                           |       |     |                      |                   |
| QØQ93ØC                                | 1/C 1/0 AWG AL   | 1/0 AWG AL        | 55      | 55                          | 45      | 45                      | 13.97          | 13.97                     | 27.94 | 509 | 120                  |                   |

Information Subject to Change without Notice.

**PRODUCT NOTES:**

Ⓐ Items are Prysmian authorized stock.  
 The above dimensions are approximate and subject to normal manufacturing tolerances.  
 All metric (SI) dimensions are derived from a soft conversion.

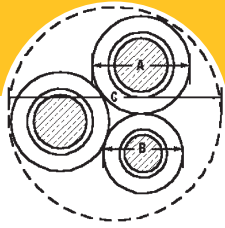
†Ampacities are based on the following:

Canadian Electrical Code, Part 1, Rule 4-004, Subrule (2)(b), as specified in Table 4, 2- or 3-conductor cable, 85-90°C conductor temperature, 30°C ambient temperature. Assumes neutral carries full load current.

LOW VOLTAGE  
UTILITY

section i.6 **2**

**PRYSMIAN**  
CABLES & SYSTEMS  
 1-800-845-8507 (US)  
 1-800-263-4405 (West-CAN)  
 1-800-361-1418 (East-CAN)  
 www.prysmianusa.com  
 www.prysmiancanada.com



# USC90

600 Volt

| Product Number                           | Phase Conductors | Neutral Conductor | Insulation Thickness (mils) |         | Jacket Thickness (mils) |         | Approximate Diameter (mm) |                |                | Cable Weight (kg/km) | † Ampacity (Amps) |
|--|------------------|-------------------|-----------------------------|---------|-------------------------|---------|---------------------------|----------------|----------------|----------------------|-------------------|
|  |                  |                   | Phase                       | Neutral | Phase                   | Neutral | (A)<br>Phase              | (B)<br>Neutral | (C)<br>Overall |                      |                   |
| <b>600 Volt Aluminum Three Conductor</b> |                  |                   |                             |         |                         |         |                           |                |                |                      |                   |
| QØMJKYC                                  | 2-1/C 2 AWG AL   | 4 AWG AL          | 45                          | 45      | 30                      | 30      | 10.92                     | 7.80           | 23.37          | 424                  | 95                |
| QØMJMØC                                  | 2-1/C 2 AWG AL   | 2 AWG AL          | 45                          | 45      | 30                      | 30      | 10.92                     | 10.92          | 23.37          | 468                  | 95                |
| QØQJMYC                                  | 2-1/C 1/0 AWG AL | 2 AWG AL          | 55                          | 45      | 45                      | 30      | 13.97                     | 10.92          | 29.44          | 666                  | 120               |
| QØRJQYC                                  | 2-1/C 2/0 AWG AL | 1/0 AWG AL        | 55                          | 45      | 55                      | 45      | 14.94                     | 13.97          | 29.97          | 765                  | 145               |
| QØSJQYC                                  | 2-1/C 3/0 AWG AL | 1/0 AWG AL        | 55                          | 55      | 45                      | 45      | 16.26                     | 13.97          | 34.80          | 981                  | 165               |
| QØSJSØC                                  | 2-1/C 3/0 AWG AL | 3/0 AWG AL        | 55                          | 55      | 45                      | 45      | 16.26                     | 16.26          | 34.80          | 1089                 | 165               |
| QØTJRYC                                  | 2-1/C 4/0 AWG AL | 2/0 AWG AL        | 55                          | 55      | 45                      | 45      | 17.53                     | 13.97          | 37.85          | 1176                 | 185               |
| QØTJTØC                                  | 2-1/C 4/0 AWG AL | 4/0 AWG AL        | 55                          | 55      | 45                      | 45      | 17.53                     | 17.53          | 37.85          | 1310                 | 185               |
| QØUJUØC                                  | 2-1/C 250 MCM AL | 250 MCM AL        | 65                          | 65      | 65                      | 65      | 20.32                     | 20.32          | 43.94          | 1687                 | 215               |
| QØWJUYC                                  | 2-1/C 500 MCM AL | 250 MCM AL        | 65                          | 65      | 65                      | 65      | 25.81                     | 20.32          | 54.61          | 2525                 | 330               |
| QØWJWØC                                  | 2-1/C 500 MCM AL | 500 MCM AL        | 65                          | 65      | 65                      | 65      | 25.81                     | 25.81          | 55.75          | 2945                 | 330               |

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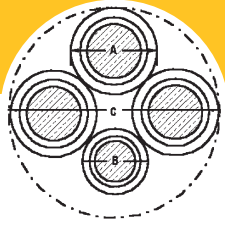
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# USC90

600 Volt

| Product Number                          | Phase Conductors | Neutral Conductor |         | Insulation Thickness (mils) |         | Jacket Thickness (mils) |                | Approximate Diameter (mm) |       |      | Cable Weight (kg/km) | † Ampacity (Amps) |
|---|------------------|-------------------|---------|-----------------------------|---------|-------------------------|----------------|---------------------------|-------|------|----------------------|-------------------|
|   |                  | Phase             | Neutral | Phase                       | Neutral | (A)<br>Phase            | (B)<br>Neutral | (C)<br>Overall            |       |      |                      |                   |
| <b>600 Volt Aluminum Four Conductor</b> |                  |                   |         |                             |         |                         |                |                           |       |      |                      |                   |
| QØMKKYC                                 | 3-1/C 2 AWG AL   | 4 AWG AL          | 45      | 45                          | 30      | 30                      | 10.87          | 9.47                      | 23.47 | 578  | 95                   |                   |
| QØQKMYC                                 | 3-1/C 1/0 AWG AL | 2 AWG AL          | 55      | 45                          | 45      | 30                      | 13.92          | 10.87                     | 30.07 | 920  | 120                  |                   |
| QØTKRYC                                 | 3-1/C 4/0 AWG AL | 2/0 AWG AL        | 55      | 55                          | 45      | 45                      | 17.48          | 14.94                     | 37.85 | 1615 | 185                  |                   |
| QØTKTØC                                 | 3-1/C 4/0 AWG AL | 4/0 AWG AL        | 55      | 55                          | 45      | 45                      | 17.53          | 17.53                     | 42.42 | 1750 | 185                  |                   |

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Canadian Electrical Code, Part 1, Rule 4-004, Subrule (2)(b), as specified in Table 4, 2- or 3-conductor cable, 85-90°C conductor temperature, 30°C ambient temperature. Assumes neutral carries only imbalance currents.