

## Description

Three conductor cable with stranded copper or aluminum conductors, triple extruded insulation system consisting of a thermosetting semiconducting conductor shield, high dielectric strength VOLTALENE™ TRXLPE insulation, thermosetting semiconducting insulation shield, helically applied bare copper tape shield, cabled with fillers and grounding conductors, overall binder tape, and overall black PVC jacket.

## Specifications

## Ratings

**AEIC** AEIC CS8\*

**ICEA** ICEA S-93-639

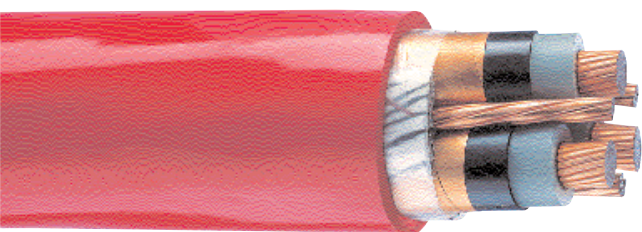
**ICEA** ICEA S-97-682

**UL** UL 1072

Type MV-90  
Sunlight Resistant  
Direct Buried

For 90°C continuous, 130°C emergency, 250°C short-circuit operation.

\*Due to a conflict between ICEA S-97-682 and AEIC CS8, all diameters will be in accordance with ICEA S-97-682 only.



## Design Parameters

### Conductor

- Class B Compressed concentric strand aluminum alloy 1350 or soft drawn annealed copper per ASTM.

### Conductor Shield

- Extruded thermosetting semiconducting shield which is free stripping from the conductor and bonded to the insulation.

### Insulation

- Natural high dielectric strength VOLTALENE™ TRXLPE insulation, exhibiting an optimum balance of mechanical and electrical properties, insuring resistance to treeing.

### Insulation Shield

- Extruded thermosetting semiconducting shield with controlled adhesion to the insulation providing the required balance between electrical integrity and ease of stripping.

### Metallic Shield

- Helically applied non-magnetic copper tape(s) over the insulation shield with a minimum overlap of 25%. A Mylar ribbon is longitudinally applied under the copper tape shield for phase identification - 1C w/ Red, 1C w/ Blue, and 1C w/ None.

### Grounding Conductors

- Bare stranded copper conductor, one in each interstice, per UL, ICEA, and ASTM.

### Assembly

- Phase identified shielded conductors cabled with fillers and grounding conductors (as specified), forming a firm and cylindrical cable core. A binder tape is applied to maintain core symmetry and mechanical stability.

## Jacket

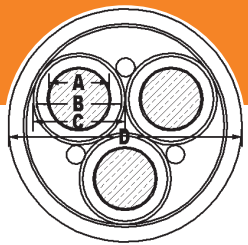
- Black sunlight resistant polyvinyl chloride (PVC) jacket tightly applied over the binder tape.

## Options

- Strandseal®
- Compact stranded conductors
- Super smooth conductor shield
- Zero or One grounding conductor
- Colored Jackets
- CPE, LLDPE, or LSOH Jacket
- Oil Resistant Jacket

## Installations

- |                  |                 |
|------------------|-----------------|
| Conduit in Air   | Direct Buried   |
| Underground Duct | Isolated in Air |
| Wet Locations    | Dry Locations   |
| With Messenger   | Industrial      |



# 3/C TRXLPE MV-90 Power

5kV  
100% | 133%

| Product Number                         | Conductor   | Insulation Thickness (mils) |      | Ground Wires |       | Conductor Diameter (in.) |      | Insulation Diameter (in.) |       | Insulation Shield Diameter (in.) |     | Overall Jacket Diameter (in.) |  | Cable Weight (lbs/100') |             | Minimum Bending Radius (in.) |  | † Ampacity (Amps) |  |  |
|--|-------------|-----------------------------|------|--------------|-------|--------------------------|------|---------------------------|-------|----------------------------------|-----|-------------------------------|--|-------------------------|-------------|------------------------------|--|-------------------|--|--|
|  |             | No.                         | Size | (A)          | (B)   | (C)                      | (D)  |                           |       |                                  |     |                               |  | 90°C In Duct            | 90°C In Air |                              |  |                   |  |  |
| <b>5kV 100% Copper Three Conductor</b> |             |                             |      |              |       |                          |      |                           |       |                                  |     |                               |  |                         |             |                              |  |                   |  |  |
| Q4242ØA                                | 4 AWG CU    | 90                          | 3    | 10 AWG       | 0.226 | 0.45                     | 0.51 | 1.32                      | 1097  | 10                               | 100 | 105                           |  |                         |             |                              |  |                   |  |  |
| Q4442ØA                                | 2 AWG CU    | 90                          | 3    | 10 AWG       | 0.284 | 0.51                     | 0.57 | 1.44                      | 1412  | 11                               | 135 | 140                           |  |                         |             |                              |  |                   |  |  |
| Q4642ØA                                | 1 AWG CU    | 90                          | 3    | 8 AWG        | 0.324 | 0.55                     | 0.61 | 1.53                      | 1682  | 11                               | 155 | 160                           |  |                         |             |                              |  |                   |  |  |
| Q4842ØA                                | 1/0 AWG CU  | 90                          | 3    | 8 AWG        | 0.364 | 0.59                     | 0.65 | 1.61                      | 1948  | 12                               | 175 | 185                           |  |                         |             |                              |  |                   |  |  |
| Q4942ØA                                | 2/0 AWG CU  | 90                          | 3    | 8 AWG        | 0.408 | 0.64                     | 0.69 | 1.71                      | 2271  | 12                               | 200 | 215                           |  |                         |             |                              |  |                   |  |  |
| Q4A42ØA                                | 3/0 AWG CU  | 90                          | 3    | 7 AWG        | 0.458 | 0.69                     | 0.74 | 1.88                      | 2812  | 14                               | 230 | 250                           |  |                         |             |                              |  |                   |  |  |
| Q4B42ØA                                | 4/0 AWG CU  | 90                          | 3    | 7 AWG        | 0.515 | 0.74                     | 0.80 | 2.00                      | 3317  | 15                               | 265 | 285                           |  |                         |             |                              |  |                   |  |  |
| Q4C42ØA                                | 250 MCM CU  | 90                          | 3    | 7 AWG        | 0.561 | 0.80                     | 0.85 | 2.11                      | 3761  | 15                               | 290 | 320                           |  |                         |             |                              |  |                   |  |  |
| Q4D42ØA                                | 350 MCM CU  | 90                          | 3    | 6 AWG        | 0.664 | 0.90                     | 0.95 | 2.34                      | 4918  | 17                               | 355 | 395                           |  |                         |             |                              |  |                   |  |  |
| Q4E42ØA                                | 500 MCM CU  | 90                          | 3    | 5 AWG        | 0.794 | 1.03                     | 1.10 | 2.65                      | 6668  | 19                               | 430 | 485                           |  |                         |             |                              |  |                   |  |  |
| Q4F42ØA                                | 750 MCM CU  | 90                          | 3    | 4 AWG        | 0.974 | 1.22                     | 1.29 | 3.12                      | 9629  | 22                               | 530 | 615                           |  |                         |             |                              |  |                   |  |  |
| Q4G42ØA                                | 1000 MCM CU | 90                          | 3    | 4 AWG        | 1.124 | 1.37                     | 1.44 | 3.44                      | 12287 | 25                               | 600 | 705                           |  |                         |             |                              |  |                   |  |  |
| <b>5kV 133% Copper Three Conductor</b> |             |                             |      |              |       |                          |      |                           |       |                                  |     |                               |  |                         |             |                              |  |                   |  |  |
| Q5242ØA                                | 4 AWG CU    | 115                         | 3    | 10 AWG       | 0.226 | 0.50                     | 0.56 | 1.42                      | 1193  | 10                               | 100 | 105                           |  |                         |             |                              |  |                   |  |  |
| Q5442ØA                                | 2 AWG CU    | 115                         | 3    | 10 AWG       | 0.284 | 0.56                     | 0.62 | 1.55                      | 1515  | 11                               | 135 | 140                           |  |                         |             |                              |  |                   |  |  |
| Q5642ØA                                | 1 AWG CU    | 115                         | 3    | 8 AWG        | 0.324 | 0.60                     | 0.66 | 1.64                      | 1789  | 12                               | 155 | 160                           |  |                         |             |                              |  |                   |  |  |
| Q5842ØA                                | 1/0 AWG CU  | 115                         | 3    | 8 AWG        | 0.364 | 0.64                     | 0.70 | 1.78                      | 2158  | 13                               | 175 | 185                           |  |                         |             |                              |  |                   |  |  |
| Q5942ØA                                | 2/0 AWG CU  | 115                         | 3    | 8 AWG        | 0.408 | 0.69                     | 0.74 | 1.88                      | 2493  | 14                               | 200 | 215                           |  |                         |             |                              |  |                   |  |  |
| Q5A42ØA                                | 3/0 AWG CU  | 115                         | 3    | 7 AWG        | 0.458 | 0.74                     | 0.79 | 1.99                      | 2941  | 14                               | 230 | 250                           |  |                         |             |                              |  |                   |  |  |
| Q5B42ØA                                | 4/0 AWG CU  | 115                         | 3    | 7 AWG        | 0.515 | 0.79                     | 0.85 | 2.11                      | 3453  | 15                               | 265 | 285                           |  |                         |             |                              |  |                   |  |  |
| Q5C42ØA                                | 250 MCM CU  | 115                         | 3    | 7 AWG        | 0.561 | 0.85                     | 0.90 | 2.22                      | 3903  | 16                               | 290 | 320                           |  |                         |             |                              |  |                   |  |  |
| Q5D42ØA                                | 350 MCM CU  | 115                         | 3    | 6 AWG        | 0.664 | 0.95                     | 1.00 | 2.44                      | 5072  | 18                               | 355 | 395                           |  |                         |             |                              |  |                   |  |  |
| Q5E42ØA                                | 500 MCM CU  | 115                         | 3    | 5 AWG        | 0.794 | 1.08                     | 1.15 | 2.76                      | 6839  | 20                               | 430 | 485                           |  |                         |             |                              |  |                   |  |  |
| Q5F42ØA                                | 750 MCM CU  | 115                         | 3    | 4 AWG        | 0.974 | 1.27                     | 1.34 | 3.22                      | 9829  | 23                               | 530 | 615                           |  |                         |             |                              |  |                   |  |  |
| Q5G42ØA                                | 1000 MCM CU | 115                         | 3    | 4 AWG        | 1.124 | 1.42                     | 1.49 | 3.55                      | 12504 | 25                               | 600 | 705                           |  |                         |             |                              |  |                   |  |  |

†Ampacities are based on the following:

Information Subject to Change without Notice.

**PRODUCT NOTES:**

**Three Phase Operation**

▲ Items are Prysmian authorized stock.  
The above dimensions are approximate and subject to normal manufacturing tolerances.

In Duct (NEC Table 310-79): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

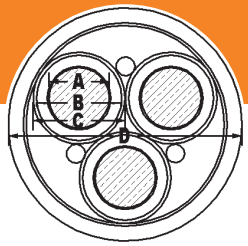
Isolated in Air (NEC Table 310-71): Three-conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-71 (Copper), "Isolated in Air" values noted above.



1-800-845-8507 (US)  
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# 3/C TRXLPE MV-90 Power

5kV

100% | 133%

| Product Number                           | Conductor   | Insulation Thickness (mils) |      | Ground Wires |       | Conductor Diameter (in.) |      | Insulation Diameter (in.) |      | Insulation Shield Diameter (in.) |     | Overall Jacket Diameter (in.) |  | Cable Weight (lbs/ft) |             | Minimum Bending Radius (in.) |  | † Ampacity (Amps) |  |  |
|--|-------------|-----------------------------|------|--------------|-------|--------------------------|------|---------------------------|------|----------------------------------|-----|-------------------------------|--|-----------------------|-------------|------------------------------|--|-------------------|--|--|
|  |             | No.                         | Size | (A)          | (B)   | (C)                      | (D)  |                           |      |                                  |     |                               |  | 90°C In Duct          | 90°C In Air |                              |  |                   |  |  |
| <b>5kV 100% Aluminum Three Conductor</b> |             |                             |      |              |       |                          |      |                           |      |                                  |     |                               |  |                       |             |                              |  |                   |  |  |
| Q4K42ØA                                  | 4 AWG AL    | 90                          | 3    | 10 AWG       | 0.226 | 0.45                     | 0.51 | 1.32                      | 833  | 10                               | 80  | 81                            |  |                       |             |                              |  |                   |  |  |
| Q4M42ØA                                  | 2 AWG AL    | 90                          | 3    | 10 AWG       | 0.284 | 0.51                     | 0.57 | 1.44                      | 993  | 11                               | 105 | 110                           |  |                       |             |                              |  |                   |  |  |
| Q4O42ØA                                  | 1 AWG AL    | 90                          | 3    | 10 AWG       | 0.324 | 0.55                     | 0.61 | 1.53                      | 1093 | 11                               | 120 | 125                           |  |                       |             |                              |  |                   |  |  |
| Q4Q42ØA                                  | 1/0 AWG AL  | 90                          | 3    | 10 AWG       | 0.364 | 0.59                     | 0.65 | 1.61                      | 1218 | 12                               | 140 | 145                           |  |                       |             |                              |  |                   |  |  |
| Q4R42ØA                                  | 2/0 AWG AL  | 90                          | 3    | 8 AWG        | 0.408 | 0.64                     | 0.69 | 1.77                      | 1522 | 13                               | 160 | 170                           |  |                       |             |                              |  |                   |  |  |
| Q4S42ØA                                  | 3/0 AWG AL  | 90                          | 3    | 8 AWG        | 0.458 | 0.69                     | 0.74 | 1.88                      | 1705 | 14                               | 180 | 195                           |  |                       |             |                              |  |                   |  |  |
| Q4T42ØA                                  | 4/0 AWG AL  | 90                          | 3    | 8 AWG        | 0.515 | 0.74                     | 0.80 | 2.00                      | 1930 | 15                               | 205 | 225                           |  |                       |             |                              |  |                   |  |  |
| Q4U42ØA                                  | 250 MCM AL  | 90                          | 3    | 8 AWG        | 0.561 | 0.80                     | 0.85 | 2.11                      | 2131 | 15                               | 230 | 250                           |  |                       |             |                              |  |                   |  |  |
| Q4V42ØA                                  | 350 MCM AL  | 90                          | 3    | 7 AWG        | 0.664 | 0.90                     | 0.95 | 2.34                      | 2643 | 17                               | 280 | 310                           |  |                       |             |                              |  |                   |  |  |
| Q4W42ØA                                  | 500 MCM AL  | 90                          | 3    | 6 AWG        | 0.794 | 1.03                     | 1.10 | 2.65                      | 3424 | 19                               | 340 | 385                           |  |                       |             |                              |  |                   |  |  |
| Q4X42ØA                                  | 750 MCM AL  | 90                          | 3    | 5 AWG        | 0.974 | 1.22                     | 1.29 | 3.12                      | 4755 | 22                               | 425 | 495                           |  |                       |             |                              |  |                   |  |  |
| Q4Y42ØA                                  | 1000 MCM AL | 90                          | 3    | 4 AWG        | 1.124 | 1.37                     | 1.44 | 3.44                      | 5886 | 25                               | 495 | 585                           |  |                       |             |                              |  |                   |  |  |
| <b>5kV 133% Aluminum Three Conductor</b> |             |                             |      |              |       |                          |      |                           |      |                                  |     |                               |  |                       |             |                              |  |                   |  |  |
| Q5K42ØA                                  | 4 AWG AL    | 115                         | 3    | 10 AWG       | 0.226 | 0.50                     | 0.56 | 1.42                      | 929  | 10                               | 80  | 81                            |  |                       |             |                              |  |                   |  |  |
| Q5M42ØA                                  | 2 AWG AL    | 115                         | 3    | 10 AWG       | 0.284 | 0.56                     | 0.62 | 1.55                      | 1095 | 11                               | 105 | 110                           |  |                       |             |                              |  |                   |  |  |
| Q5O42ØA                                  | 1 AWG AL    | 115                         | 3    | 10 AWG       | 0.324 | 0.60                     | 0.66 | 1.64                      | 1200 | 12                               | 120 | 125                           |  |                       |             |                              |  |                   |  |  |
| Q5Q42ØA                                  | 1/0 AWG AL  | 115                         | 3    | 10 AWG       | 0.364 | 0.64                     | 0.70 | 1.78                      | 1429 | 13                               | 140 | 145                           |  |                       |             |                              |  |                   |  |  |
| Q5R42ØA                                  | 2/0 AWG AL  | 115                         | 3    | 8 AWG        | 0.408 | 0.69                     | 0.74 | 1.88                      | 1645 | 14                               | 160 | 170                           |  |                       |             |                              |  |                   |  |  |
| Q5S42ØA                                  | 3/0 AWG AL  | 115                         | 3    | 8 AWG        | 0.458 | 0.74                     | 0.79 | 1.99                      | 1834 | 14                               | 180 | 195                           |  |                       |             |                              |  |                   |  |  |
| Q5T42ØA                                  | 4/0 AWG AL  | 115                         | 3    | 8 AWG        | 0.515 | 0.79                     | 0.85 | 2.11                      | 2066 | 15                               | 205 | 225                           |  |                       |             |                              |  |                   |  |  |
| Q5U42ØA                                  | 250 MCM AL  | 115                         | 3    | 8 AWG        | 0.561 | 0.85                     | 0.90 | 2.22                      | 2273 | 16                               | 230 | 250                           |  |                       |             |                              |  |                   |  |  |
| Q5V42ØA                                  | 350 MCM AL  | 115                         | 3    | 7 AWG        | 0.664 | 0.95                     | 1.00 | 2.44                      | 2797 | 18                               | 280 | 310                           |  |                       |             |                              |  |                   |  |  |
| Q5W42ØA                                  | 500 MCM AL  | 115                         | 3    | 6 AWG        | 0.794 | 1.08                     | 1.15 | 2.76                      | 3595 | 20                               | 340 | 385                           |  |                       |             |                              |  |                   |  |  |
| Q5X42ØA                                  | 750 MCM AL  | 115                         | 3    | 5 AWG        | 0.974 | 1.27                     | 1.34 | 3.22                      | 4955 | 23                               | 425 | 495                           |  |                       |             |                              |  |                   |  |  |
| Q5Y42ØA                                  | 1000 MCM AL | 115                         | 3    | 4 AWG        | 1.124 | 1.42                     | 1.49 | 3.55                      | 6103 | 25                               | 495 | 585                           |  |                       |             |                              |  |                   |  |  |

†Ampacities are based on the following:

Information Subject to Change without Notice.

**PRODUCT NOTES:**

▲ Items are Prysmian authorized stock. The above dimensions are approximate and subject to normal manufacturing tolerances.

**Three Phase Operation**

In Duct (NEC Table 310-80): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

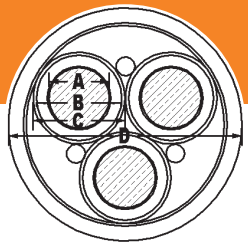
Isolated in Air (NEC Table 310-72): Three-conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-72 (Aluminum), "Isolated in Air" values noted above.



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# 3/C TRXLPE MV-90 Power

8kV

100% | 133%

| Product Number                         | Conductor   | Insulation Thickness (mils) |      | Ground Wires |       | Conductor Diameter (in.) |      | Insulation Diameter (in.) |       | Insulation Shield Diameter (in.) |     | Overall Jacket Diameter (in.) |  | Cable Weight (lbs/1000') |             | Minimum Bending Radius (in.) |  | † Ampacity (Amps) |  |
|--|-------------|-----------------------------|------|--------------|-------|--------------------------|------|---------------------------|-------|----------------------------------|-----|-------------------------------|--|--------------------------|-------------|------------------------------|--|-------------------|--|
|  |             | No.                         | Size | (A)          | (B)   | (C)                      | (D)  |                           |       |                                  |     |                               |  | 90°C In Duct             | 90°C In Air |                              |  |                   |  |
| <b>8kV 100% Copper Three Conductor</b> |             |                             |      |              |       |                          |      |                           |       |                                  |     |                               |  |                          |             |                              |  |                   |  |
| Q5242ØA                                | 4 AWG CU    | 115                         | 3    | 10 AWG       | 0.226 | 0.50                     | 0.56 | 1.42                      | 1193  | 10                               | 115 | 120                           |  |                          |             |                              |  |                   |  |
| Q5442ØA                                | 2 AWG CU    | 115                         | 3    | 10 AWG       | 0.284 | 0.56                     | 0.62 | 1.55                      | 1515  | 11                               | 150 | 165                           |  |                          |             |                              |  |                   |  |
| Q5642ØA                                | 1 AWG CU    | 115                         | 3    | 8 AWG        | 0.324 | 0.60                     | 0.66 | 1.64                      | 1789  | 12                               | 170 | 185                           |  |                          |             |                              |  |                   |  |
| Q5842ØA                                | 1/0 AWG CU  | 115                         | 3    | 8 AWG        | 0.364 | 0.64                     | 0.70 | 1.78                      | 2158  | 13                               | 195 | 215                           |  |                          |             |                              |  |                   |  |
| Q5942ØA                                | 2/0 AWG CU  | 115                         | 3    | 8 AWG        | 0.408 | 0.69                     | 0.74 | 1.88                      | 2493  | 14                               | 220 | 245                           |  |                          |             |                              |  |                   |  |
| Q5A42ØA                                | 3/0 AWG CU  | 115                         | 3    | 7 AWG        | 0.458 | 0.74                     | 0.79 | 1.99                      | 2941  | 14                               | 250 | 285                           |  |                          |             |                              |  |                   |  |
| Q5B42ØA                                | 4/0 AWG CU  | 115                         | 3    | 7 AWG        | 0.515 | 0.79                     | 0.85 | 2.11                      | 3453  | 15                               | 285 | 325                           |  |                          |             |                              |  |                   |  |
| Q5C42ØA                                | 250 MCM CU  | 115                         | 3    | 7 AWG        | 0.561 | 0.85                     | 0.90 | 2.22                      | 3903  | 16                               | 310 | 360                           |  |                          |             |                              |  |                   |  |
| Q5D42ØA                                | 350 MCM CU  | 115                         | 3    | 6 AWG        | 0.664 | 0.95                     | 1.00 | 2.44                      | 5072  | 18                               | 375 | 435                           |  |                          |             |                              |  |                   |  |
| Q5E42ØA                                | 500 MCM CU  | 115                         | 3    | 5 AWG        | 0.794 | 1.08                     | 1.15 | 2.76                      | 6839  | 20                               | 450 | 535                           |  |                          |             |                              |  |                   |  |
| Q5F42ØA                                | 750 MCM CU  | 115                         | 3    | 4 AWG        | 0.974 | 1.27                     | 1.34 | 3.22                      | 9829  | 23                               | 545 | 670                           |  |                          |             |                              |  |                   |  |
| Q5G42ØA                                | 1000 MCM CU | 115                         | 3    | 4 AWG        | 1.124 | 1.42                     | 1.49 | 3.55                      | 12504 | 25                               | 615 | 770                           |  |                          |             |                              |  |                   |  |
| <b>8kV 133% Copper Three Conductor</b> |             |                             |      |              |       |                          |      |                           |       |                                  |     |                               |  |                          |             |                              |  |                   |  |
| Q6442ØA                                | 2 AWG CU    | 140                         | 3    | 10 AWG       | 0.284 | 0.61                     | 0.67 | 1.66                      | 1623  | 12                               | 150 | 165                           |  |                          |             |                              |  |                   |  |
| Q6642ØA                                | 1 AWG CU    | 140                         | 3    | 8 AWG        | 0.324 | 0.65                     | 0.71 | 1.80                      | 2002  | 13                               | 170 | 185                           |  |                          |             |                              |  |                   |  |
| Q6842ØA                                | 1/0 AWG CU  | 140                         | 3    | 8 AWG        | 0.364 | 0.69                     | 0.75 | 1.89                      | 2282  | 14                               | 195 | 215                           |  |                          |             |                              |  |                   |  |
| Q6942ØA                                | 2/0 AWG CU  | 140                         | 3    | 8 AWG        | 0.408 | 0.74                     | 0.79 | 1.99                      | 2622  | 14                               | 220 | 245                           |  |                          |             |                              |  |                   |  |
| Q6A42ØA                                | 3/0 AWG CU  | 140                         | 3    | 7 AWG        | 0.458 | 0.79                     | 0.84 | 2.09                      | 3076  | 15                               | 250 | 285                           |  |                          |             |                              |  |                   |  |
| Q6B42ØA                                | 4/0 AWG CU  | 140                         | 3    | 7 AWG        | 0.515 | 0.84                     | 0.90 | 2.22                      | 3594  | 16                               | 285 | 325                           |  |                          |             |                              |  |                   |  |
| Q6C42ØA                                | 250 MCM CU  | 140                         | 3    | 7 AWG        | 0.561 | 0.90                     | 0.95 | 2.33                      | 4051  | 17                               | 310 | 360                           |  |                          |             |                              |  |                   |  |
| Q6D42ØA                                | 350 MCM CU  | 140                         | 3    | 6 AWG        | 0.664 | 1.00                     | 1.05 | 2.55                      | 5232  | 18                               | 375 | 435                           |  |                          |             |                              |  |                   |  |
| Q6E42ØA                                | 500 MCM CU  | 140                         | 3    | 5 AWG        | 0.794 | 1.13                     | 1.20 | 2.93                      | 7180  | 21                               | 450 | 535                           |  |                          |             |                              |  |                   |  |
| Q6F42ØA                                | 750 MCM CU  | 140                         | 3    | 4 AWG        | 0.974 | 1.32                     | 1.39 | 3.33                      | 10034 | 24                               | 545 | 670                           |  |                          |             |                              |  |                   |  |
| Q6G42ØA                                | 1000 MCM CU | 140                         | 3    | 4 AWG        | 1.124 | 1.47                     | 1.54 | 3.66                      | 12728 | 26                               | 615 | 770                           |  |                          |             |                              |  |                   |  |

†Ampacities are based on the following:

Information Subject to Change without Notice.

**PRODUCT NOTES:**

▲ Items are Prysmian authorized stock. The above dimensions are approximate and subject to normal manufacturing tolerances.

**Three Phase Operation**

In Duct (NEC Table 310-79): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

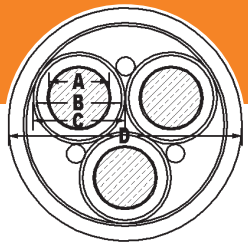
Isolated in Air (NEC Table 310-71): Three-conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-71 (Copper), "Isolated in Air" values noted above.



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# 3/C TRXLPE MV-90 Power

8kV

100% | 133%

| Product Number                           | Conductor   | Insulation Thickness (mils) |      | Ground Wires |       | Conductor Diameter (in.) |      | Insulation Diameter (in.) |      | Insulation Shield Diameter (in.) |     | Overall Jacket Diameter (in.) |  | Cable Weight (lbs/1000') |             | Minimum Bending Radius (in.) |  | † Ampacity (Amps) |  |  |
|--|-------------|-----------------------------|------|--------------|-------|--------------------------|------|---------------------------|------|----------------------------------|-----|-------------------------------|--|--------------------------|-------------|------------------------------|--|-------------------|--|--|
|  |             | No.                         | Size | (A)          | (B)   | (C)                      | (D)  |                           |      |                                  |     |                               |  | 90°C In Duct             | 90°C In Air |                              |  |                   |  |  |
| <b>8kV 100% Aluminum Three Conductor</b> |             |                             |      |              |       |                          |      |                           |      |                                  |     |                               |  |                          |             |                              |  |                   |  |  |
| Q5K42ØA                                  | 4 AWG AL    | 115                         | 3    | 10 AWG       | 0.226 | 0.50                     | 0.56 | 1.42                      | 929  | 10                               | 89  | 95                            |  |                          |             |                              |  |                   |  |  |
| Q5M42ØA                                  | 2 AWG AL    | 115                         | 3    | 10 AWG       | 0.284 | 0.56                     | 0.62 | 1.55                      | 1095 | 11                               | 115 | 125                           |  |                          |             |                              |  |                   |  |  |
| Q5O42ØA                                  | 1 AWG AL    | 115                         | 3    | 10 AWG       | 0.324 | 0.60                     | 0.66 | 1.64                      | 1200 | 12                               | 135 | 145                           |  |                          |             |                              |  |                   |  |  |
| Q5Q42ØA                                  | 1/0 AWG AL  | 115                         | 3    | 10 AWG       | 0.364 | 0.64                     | 0.70 | 1.78                      | 1429 | 13                               | 150 | 170                           |  |                          |             |                              |  |                   |  |  |
| Q5R42ØA                                  | 2/0 AWG AL  | 115                         | 3    | 8 AWG        | 0.408 | 0.69                     | 0.74 | 1.88                      | 1645 | 14                               | 170 | 190                           |  |                          |             |                              |  |                   |  |  |
| Q5S42ØA                                  | 3/0 AWG AL  | 115                         | 3    | 8 AWG        | 0.458 | 0.74                     | 0.79 | 1.99                      | 1834 | 14                               | 195 | 220                           |  |                          |             |                              |  |                   |  |  |
| Q5T42ØA                                  | 4/0 AWG AL  | 115                         | 3    | 8 AWG        | 0.515 | 0.79                     | 0.85 | 2.11                      | 2066 | 15                               | 220 | 255                           |  |                          |             |                              |  |                   |  |  |
| Q5U42ØA                                  | 250 MCM AL  | 115                         | 3    | 8 AWG        | 0.561 | 0.85                     | 0.90 | 2.22                      | 2273 | 16                               | 245 | 280                           |  |                          |             |                              |  |                   |  |  |
| Q5V42ØA                                  | 350 MCM AL  | 115                         | 3    | 7 AWG        | 0.664 | 0.95                     | 1.00 | 2.44                      | 2797 | 18                               | 295 | 345                           |  |                          |             |                              |  |                   |  |  |
| Q5W42ØA                                  | 500 MCM AL  | 115                         | 3    | 6 AWG        | 0.794 | 1.08                     | 1.15 | 2.76                      | 3595 | 20                               | 355 | 425                           |  |                          |             |                              |  |                   |  |  |
| Q5X42ØA                                  | 750 MCM AL  | 115                         | 3    | 5 AWG        | 0.974 | 1.27                     | 1.34 | 3.22                      | 4955 | 23                               | 440 | 540                           |  |                          |             |                              |  |                   |  |  |
| Q5Y42ØA                                  | 1000 MCM AL | 115                         | 3    | 4 AWG        | 1.124 | 1.42                     | 1.49 | 3.55                      | 6103 | 25                               | 510 | 635                           |  |                          |             |                              |  |                   |  |  |
| <b>8kV 133% Aluminum Three Conductor</b> |             |                             |      |              |       |                          |      |                           |      |                                  |     |                               |  |                          |             |                              |  |                   |  |  |
| Q6M42ØA                                  | 2 AWG AL    | 140                         | 3    | 10 AWG       | 0.284 | 0.61                     | 0.67 | 1.66                      | 1204 | 12                               | 115 | 125                           |  |                          |             |                              |  |                   |  |  |
| Q6O42ØA                                  | 1 AWG AL    | 140                         | 3    | 10 AWG       | 0.324 | 0.65                     | 0.71 | 1.80                      | 1413 | 13                               | 135 | 145                           |  |                          |             |                              |  |                   |  |  |
| Q6Q42ØA                                  | 1/0 AWG AL  | 140                         | 3    | 10 AWG       | 0.364 | 0.69                     | 0.75 | 1.89                      | 1553 | 14                               | 150 | 170                           |  |                          |             |                              |  |                   |  |  |
| Q6R42ØA                                  | 2/0 AWG AL  | 140                         | 3    | 8 AWG        | 0.408 | 0.74                     | 0.79 | 1.99                      | 1774 | 14                               | 170 | 190                           |  |                          |             |                              |  |                   |  |  |
| Q6S42ØA                                  | 3/0 AWG AL  | 140                         | 3    | 8 AWG        | 0.458 | 0.79                     | 0.84 | 2.09                      | 1969 | 15                               | 195 | 220                           |  |                          |             |                              |  |                   |  |  |
| Q6T42ØA                                  | 4/0 AWG AL  | 140                         | 3    | 8 AWG        | 0.515 | 0.84                     | 0.90 | 2.22                      | 2208 | 16                               | 220 | 255                           |  |                          |             |                              |  |                   |  |  |
| Q6U42ØA                                  | 250 MCM AL  | 140                         | 3    | 8 AWG        | 0.561 | 0.90                     | 0.95 | 2.33                      | 2421 | 17                               | 245 | 280                           |  |                          |             |                              |  |                   |  |  |
| Q6V42ØA                                  | 350 MCM AL  | 140                         | 3    | 7 AWG        | 0.664 | 1.00                     | 1.05 | 2.55                      | 2957 | 18                               | 295 | 345                           |  |                          |             |                              |  |                   |  |  |
| Q6W42ØA                                  | 500 MCM AL  | 140                         | 3    | 6 AWG        | 0.794 | 1.13                     | 1.20 | 2.93                      | 3936 | 21                               | 355 | 425                           |  |                          |             |                              |  |                   |  |  |
| Q6X42ØA                                  | 750 MCM AL  | 140                         | 3    | 5 AWG        | 0.974 | 1.32                     | 1.39 | 3.33                      | 5161 | 24                               | 440 | 540                           |  |                          |             |                              |  |                   |  |  |
| Q6Y42ØA                                  | 1000 MCM AL | 140                         | 3    | 4 AWG        | 1.124 | 1.47                     | 1.54 | 3.66                      | 6327 | 26                               | 510 | 635                           |  |                          |             |                              |  |                   |  |  |

†Ampacities are based on the following:

Information Subject to Change without Notice.

**PRODUCT NOTES:**

▲ Items are Prysmian authorized stock. The above dimensions are approximate and subject to normal manufacturing tolerances.

**Three Phase Operation**

In Duct (NEC Table 310-80): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

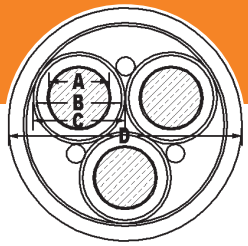
Isolated in Air (NEC Table 310-72): Three-conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-72 (Aluminum), "Isolated in Air" values noted above.



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# 3/C TRXLPE MV-90 Power

15kV  
100% | 133%

| Product Number                          | Conductor   | Insulation Thickness (mils) |      | Ground Wires |       | Conductor Diameter (in.) |      | Insulation Diameter (in.) |       | Insulation Shield Diameter (in.) |     | Overall Jacket Diameter (in.) |  | Cable Weight (lbs/100') |             | Minimum Bending Radius (in.) |  | † Ampacity (Amps) |  |
|---|-------------|-----------------------------|------|--------------|-------|--------------------------|------|---------------------------|-------|----------------------------------|-----|-------------------------------|--|-------------------------|-------------|------------------------------|--|-------------------|--|
|   |             | No.                         | Size | (A)          | (B)   | (C)                      | (D)  |                           |       |                                  |     |                               |  | 90°C In Duct            | 90°C In Air |                              |  |                   |  |
| <b>15kV 100% Copper Three Conductor</b> |             |                             |      |              |       |                          |      |                           |       |                                  |     |                               |  |                         |             |                              |  |                   |  |
| Q7442ØA                                 | 2 AWG CU    | 175                         | 3    | 10 AWG       | 0.284 | 0.68                     | 0.74 | 1.87                      | 1888  | 14                               | 150 | 165                           |  |                         |             |                              |  |                   |  |
| Q7642ØA                                 | 1 AWG CU    | 175                         | 3    | 8 AWG        | 0.324 | 0.72                     | 0.78 | 1.96                      | 2179  | 14                               | 170 | 185                           |  |                         |             |                              |  |                   |  |
| Q7842ØA                                 | 1/0 AWG CU  | 175                         | 3    | 8 AWG        | 0.364 | 0.76                     | 0.82 | 2.04                      | 2466  | 15                               | 195 | 215                           |  |                         |             |                              |  |                   |  |
| Q7942ØA                                 | 2/0 AWG CU  | 175                         | 3    | 8 AWG        | 0.408 | 0.81                     | 0.86 | 2.14                      | 2813  | 15                               | 220 | 245                           |  |                         |             |                              |  |                   |  |
| Q7A42ØA                                 | 3/0 AWG CU  | 175                         | 3    | 7 AWG        | 0.458 | 0.86                     | 0.91 | 2.24                      | 3275  | 16                               | 250 | 285                           |  |                         |             |                              |  |                   |  |
| Q7B42ØA                                 | 4/0 AWG CU  | 175                         | 3    | 7 AWG        | 0.515 | 0.91                     | 0.97 | 2.37                      | 3803  | 17                               | 285 | 325                           |  |                         |             |                              |  |                   |  |
| Q7C42ØA                                 | 250 MCM CU  | 175                         | 3    | 7 AWG        | 0.561 | 0.97                     | 1.02 | 2.48                      | 4268  | 18                               | 310 | 360                           |  |                         |             |                              |  |                   |  |
| Q7D42ØA                                 | 350 MCM CU  | 175                         | 3    | 6 AWG        | 0.664 | 1.07                     | 1.14 | 2.74                      | 5529  | 20                               | 375 | 435                           |  |                         |             |                              |  |                   |  |
| Q7E42ØA                                 | 500 MCM CU  | 175                         | 3    | 5 AWG        | 0.794 | 1.20                     | 1.27 | 3.08                      | 7447  | 22                               | 450 | 535                           |  |                         |             |                              |  |                   |  |
| Q7F42ØA                                 | 750 MCM CU  | 175                         | 3    | 4 AWG        | 0.974 | 1.39                     | 1.46 | 3.48                      | 10333 | 25                               | 545 | 670                           |  |                         |             |                              |  |                   |  |
| Q7G42ØA                                 | 1000 MCM CU | 175                         | 3    | 4 AWG        | 1.124 | 1.54                     | 1.62 | 3.84                      | 13138 | 27                               | 615 | 770                           |  |                         |             |                              |  |                   |  |
| <b>15kV 133% Copper Three Conductor</b> |             |                             |      |              |       |                          |      |                           |       |                                  |     |                               |  |                         |             |                              |  |                   |  |
| Q8442ØA                                 | 2 AWG CU    | 220                         | 3    | 10 AWG       | 0.284 | 0.77                     | 0.83 | 2.06                      | 2124  | 15                               | 150 | 165                           |  |                         |             |                              |  |                   |  |
| Q8642ØA                                 | 1 AWG CU    | 220                         | 3    | 8 AWG        | 0.324 | 0.81                     | 0.87 | 2.15                      | 2424  | 16                               | 170 | 185                           |  |                         |             |                              |  |                   |  |
| Q8842ØA                                 | 1/0 AWG CU  | 220                         | 3    | 8 AWG        | 0.364 | 0.85                     | 0.91 | 2.24                      | 2719  | 16                               | 195 | 215                           |  |                         |             |                              |  |                   |  |
| Q8942ØA                                 | 2/0 AWG CU  | 220                         | 3    | 8 AWG        | 0.408 | 0.90                     | 0.95 | 2.33                      | 3075  | 17                               | 220 | 245                           |  |                         |             |                              |  |                   |  |
| Q8A42ØA                                 | 3/0 AWG CU  | 220                         | 3    | 7 AWG        | 0.458 | 0.95                     | 1.00 | 2.44                      | 3548  | 18                               | 250 | 285                           |  |                         |             |                              |  |                   |  |
| Q8B42ØA                                 | 4/0 AWG CU  | 220                         | 3    | 7 AWG        | 0.515 | 1.00                     | 1.06 | 2.56                      | 4088  | 18                               | 285 | 325                           |  |                         |             |                              |  |                   |  |
| Q8C42ØA                                 | 250 MCM CU  | 220                         | 3    | 7 AWG        | 0.561 | 1.06                     | 1.13 | 2.71                      | 4627  | 19                               | 310 | 360                           |  |                         |             |                              |  |                   |  |
| Q8D42ØA                                 | 350 MCM CU  | 220                         | 3    | 6 AWG        | 0.664 | 1.16                     | 1.23 | 2.99                      | 6018  | 21                               | 375 | 435                           |  |                         |             |                              |  |                   |  |
| Q8E42ØA                                 | 500 MCM CU  | 220                         | 3    | 5 AWG        | 0.794 | 1.29                     | 1.36 | 3.27                      | 7808  | 23                               | 450 | 535                           |  |                         |             |                              |  |                   |  |
| Q8F42ØA                                 | 750 MCM CU  | 220                         | 3    | 4 AWG        | 0.974 | 1.48                     | 1.55 | 3.68                      | 10733 | 26                               | 545 | 670                           |  |                         |             |                              |  |                   |  |
| Q8G42ØA                                 | 1000 MCM CU | 220                         | 3    | 4 AWG        | 1.124 | 1.63                     | 1.71 | 4.04                      | 13574 | 29                               | 615 | 770                           |  |                         |             |                              |  |                   |  |

†Ampacities are based on the following:

Information Subject to Change without Notice.

**PRODUCT NOTES:**

▲ Items are Prysmian authorized stock.  
The above dimensions are approximate and subject to normal manufacturing tolerances.

**Three Phase Operation**

In Duct (NEC Table 310-79): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

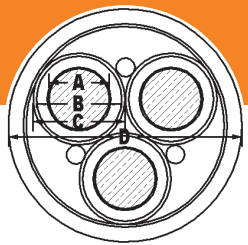
Isolated in Air (NEC Table 310-71): Three-conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-71 (Copper), "Isolated in Air" values noted above.



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# 3/C TRXLPE MV-90 Power

15kV  
100% | 133%

| Product Number                            | Conductor   | Insulation Thickness (mils) |      | Ground Wires |       | Conductor Diameter (in.) |      | Insulation Diameter (in.) |      | Insulation Shield Diameter (in.) |     | Overall Jacket Diameter (in.) |  | Cable Weight (lbs/ft) |             | Minimum Bending Radius (in.) |  | † Ampacity (Amps) |  |  |
|---|-------------|-----------------------------|------|--------------|-------|--------------------------|------|---------------------------|------|----------------------------------|-----|-------------------------------|--|-----------------------|-------------|------------------------------|--|-------------------|--|--|
|   |             | No.                         | Size | (A)          | (B)   | (C)                      | (D)  |                           |      |                                  |     |                               |  | 90°C In Duct          | 90°C In Air |                              |  |                   |  |  |
| <b>15kV 100% Aluminum Three Conductor</b> |             |                             |      |              |       |                          |      |                           |      |                                  |     |                               |  |                       |             |                              |  |                   |  |  |
| Q7M42ØA                                   | 2 AWG AL    | 175                         | 3    | 10 AWG       | 0.284 | 0.68                     | 0.74 | 1.87                      | 1469 | 14                               | 115 | 125                           |  |                       |             |                              |  |                   |  |  |
| Q7O42ØA                                   | 1 AWG AL    | 175                         | 3    | 10 AWG       | 0.324 | 0.72                     | 0.78 | 1.96                      | 1590 | 14                               | 135 | 145                           |  |                       |             |                              |  |                   |  |  |
| Q7Q42ØA                                   | 1/0 AWG AL  | 175                         | 3    | 10 AWG       | 0.364 | 0.76                     | 0.82 | 2.04                      | 1736 | 15                               | 150 | 170                           |  |                       |             |                              |  |                   |  |  |
| Q7R42ØA                                   | 2/0 AWG AL  | 175                         | 3    | 8 AWG        | 0.408 | 0.81                     | 0.86 | 2.14                      | 1965 | 15                               | 170 | 190                           |  |                       |             |                              |  |                   |  |  |
| Q7S42ØA                                   | 3/0 AWG AL  | 175                         | 3    | 8 AWG        | 0.458 | 0.86                     | 0.91 | 2.24                      | 2168 | 16                               | 195 | 220                           |  |                       |             |                              |  |                   |  |  |
| Q7T42ØA                                   | 4/0 AWG AL  | 175                         | 3    | 8 AWG        | 0.515 | 0.91                     | 0.97 | 2.37                      | 2416 | 17                               | 220 | 255                           |  |                       |             |                              |  |                   |  |  |
| Q7U42ØA                                   | 250 MCM AL  | 175                         | 3    | 8 AWG        | 0.561 | 0.97                     | 1.02 | 2.48                      | 2638 | 18                               | 245 | 280                           |  |                       |             |                              |  |                   |  |  |
| Q7V42ØA                                   | 350 MCM AL  | 175                         | 3    | 7 AWG        | 0.664 | 1.07                     | 1.14 | 2.74                      | 3254 | 20                               | 295 | 345                           |  |                       |             |                              |  |                   |  |  |
| Q7W42ØA                                   | 500 MCM AL  | 175                         | 3    | 6 AWG        | 0.794 | 1.20                     | 1.27 | 3.08                      | 4203 | 22                               | 355 | 425                           |  |                       |             |                              |  |                   |  |  |
| Q7X42ØA                                   | 750 MCM AL  | 175                         | 3    | 5 AWG        | 0.974 | 1.39                     | 1.46 | 3.48                      | 5459 | 25                               | 440 | 540                           |  |                       |             |                              |  |                   |  |  |
| Q7Y42ØA                                   | 1000 MCM AL | 175                         | 3    | 4 AWG        | 1.124 | 1.54                     | 1.62 | 3.84                      | 6737 | 27                               | 510 | 635                           |  |                       |             |                              |  |                   |  |  |
| <b>15kV 133% Aluminum Three Conductor</b> |             |                             |      |              |       |                          |      |                           |      |                                  |     |                               |  |                       |             |                              |  |                   |  |  |
| Q8M42ØA                                   | 2 AWG AL    | 220                         | 3    | 10 AWG       | 0.284 | 0.77                     | 0.83 | 2.06                      | 1705 | 15                               | 115 | 125                           |  |                       |             |                              |  |                   |  |  |
| Q8O42ØA                                   | 1 AWG AL    | 220                         | 3    | 10 AWG       | 0.324 | 0.81                     | 0.87 | 2.15                      | 1834 | 16                               | 135 | 145                           |  |                       |             |                              |  |                   |  |  |
| Q8Q42ØA                                   | 1/0 AWG AL  | 220                         | 3    | 10 AWG       | 0.364 | 0.85                     | 0.91 | 2.24                      | 1989 | 16                               | 150 | 170                           |  |                       |             |                              |  |                   |  |  |
| Q8R42ØA                                   | 2/0 AWG AL  | 220                         | 3    | 8 AWG        | 0.408 | 0.90                     | 0.95 | 2.33                      | 2227 | 17                               | 170 | 190                           |  |                       |             |                              |  |                   |  |  |
| Q8S42ØA                                   | 3/0 AWG AL  | 220                         | 3    | 8 AWG        | 0.458 | 0.95                     | 1.00 | 2.44                      | 2441 | 18                               | 195 | 220                           |  |                       |             |                              |  |                   |  |  |
| Q8T42ØA                                   | 4/0 AWG AL  | 220                         | 3    | 8 AWG        | 0.515 | 1.00                     | 1.06 | 2.56                      | 2701 | 18                               | 220 | 255                           |  |                       |             |                              |  |                   |  |  |
| Q8U42ØA                                   | 250 MCM AL  | 220                         | 3    | 8 AWG        | 0.561 | 1.06                     | 1.13 | 2.71                      | 2997 | 19                               | 245 | 280                           |  |                       |             |                              |  |                   |  |  |
| Q8V42ØA                                   | 350 MCM AL  | 220                         | 3    | 7 AWG        | 0.664 | 1.16                     | 1.23 | 2.99                      | 3743 | 21                               | 295 | 345                           |  |                       |             |                              |  |                   |  |  |
| Q8W42ØA                                   | 500 MCM AL  | 220                         | 3    | 6 AWG        | 0.794 | 1.29                     | 1.36 | 3.27                      | 4564 | 23                               | 355 | 425                           |  |                       |             |                              |  |                   |  |  |
| Q8X42ØA                                   | 750 MCM AL  | 220                         | 3    | 5 AWG        | 0.974 | 1.48                     | 1.55 | 3.68                      | 5859 | 26                               | 440 | 540                           |  |                       |             |                              |  |                   |  |  |
| Q8Y42ØA                                   | 1000 MCM AL | 220                         | 3    | 4 AWG        | 1.124 | 1.63                     | 1.71 | 4.04                      | 7173 | 29                               | 510 | 635                           |  |                       |             |                              |  |                   |  |  |

†Ampacities are based on the following:

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**PRODUCT NOTES:**

▲ Items are Prysmian authorized stock.  
The above dimensions are approximate and subject to normal manufacturing tolerances.

**Three Phase Operation**

In Duct (NEC Table 310-80): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

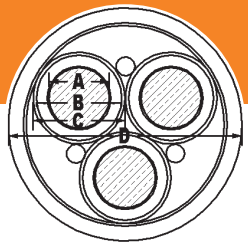
Isolated in Air (NEC Table 310-72): Three-conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-72 (Aluminum), "Isolated in Air" values noted above.



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# 3/C TRXLPE MV-90 Power

25kV

100% | 133%

| Product Number                          | Conductor   | Insulation Thickness (mils) |      | Ground Wires |       | Conductor Diameter (in.) |      | Insulation Diameter (in.) |       | Insulation Shield Diameter (in.) |     | Overall Jacket Diameter (in.) |  | Cable Weight (lbs/100') |             | Minimum Bending Radius (in.) |  | † Ampacity (Amps) |  |  |
|---|-------------|-----------------------------|------|--------------|-------|--------------------------|------|---------------------------|-------|----------------------------------|-----|-------------------------------|--|-------------------------|-------------|------------------------------|--|-------------------|--|--|
|   |             | No.                         | Size | (A)          | (B)   | (C)                      | (D)  |                           |       |                                  |     |                               |  | 90°C In Duct            | 90°C In Air |                              |  |                   |  |  |
| <b>25kV 100% Copper Three Conductor</b> |             |                             |      |              |       |                          |      |                           |       |                                  |     |                               |  |                         |             |                              |  |                   |  |  |
| Q96420A                                 | 1 AWG CU    | 260                         | 3    | 8 AWG        | 0.324 | 0.89                     | 0.95 | 2.32                      | 2657  | 17                               | 170 | 185                           |  |                         |             |                              |  |                   |  |  |
| Q98420A                                 | 1/0 AWG CU  | 260                         | 3    | 8 AWG        | 0.364 | 0.93                     | 0.99 | 2.41                      | 2960  | 17                               | 195 | 215                           |  |                         |             |                              |  |                   |  |  |
| Q99420A                                 | 2/0 AWG CU  | 260                         | 3    | 8 AWG        | 0.408 | 0.98                     | 1.03 | 2.50                      | 3324  | 18                               | 220 | 245                           |  |                         |             |                              |  |                   |  |  |
| Q9A420A                                 | 3/0 AWG CU  | 260                         | 3    | 7 AWG        | 0.458 | 1.03                     | 1.10 | 2.65                      | 3868  | 19                               | 250 | 285                           |  |                         |             |                              |  |                   |  |  |
| Q9B420A                                 | 4/0 AWG CU  | 260                         | 3    | 7 AWG        | 0.515 | 1.08                     | 1.16 | 2.77                      | 4421  | 20                               | 285 | 325                           |  |                         |             |                              |  |                   |  |  |
| Q9C420A                                 | 250 MCM CU  | 260                         | 3    | 7 AWG        | 0.561 | 1.14                     | 1.21 | 2.94                      | 5073  | 21                               | 310 | 360                           |  |                         |             |                              |  |                   |  |  |
| Q9D420A                                 | 350 MCM CU  | 260                         | 3    | 6 AWG        | 0.664 | 1.24                     | 1.31 | 3.16                      | 6330  | 23                               | 375 | 435                           |  |                         |             |                              |  |                   |  |  |
| Q9E420A                                 | 500 MCM CU  | 260                         | 3    | 5 AWG        | 0.794 | 1.37                     | 1.44 | 3.45                      | 8144  | 25                               | 450 | 535                           |  |                         |             |                              |  |                   |  |  |
| Q9F420A                                 | 750 MCM CU  | 260                         | 3    | 4 AWG        | 0.974 | 1.56                     | 1.64 | 3.89                      | 11193 | 28                               | 545 | 670                           |  |                         |             |                              |  |                   |  |  |
| Q9G420A                                 | 1000 MCM CU | 260                         | 3    | 4 AWG        | 1.124 | 1.71                     | 1.79 | 4.21                      | 13978 | 30                               | 615 | 770                           |  |                         |             |                              |  |                   |  |  |
| <b>25kV 133% Copper Three Conductor</b> |             |                             |      |              |       |                          |      |                           |       |                                  |     |                               |  |                         |             |                              |  |                   |  |  |
| QB8420A                                 | 1/0 AWG CU  | 345                         | 3    | 8 AWG        | 0.364 | 1.11                     | 1.18 | 2.88                      | 3761  | 21                               | 195 | 215                           |  |                         |             |                              |  |                   |  |  |
| QB9420A                                 | 2/0 AWG CU  | 345                         | 3    | 8 AWG        | 0.408 | 1.15                     | 1.22 | 2.97                      | 4151  | 21                               | 220 | 245                           |  |                         |             |                              |  |                   |  |  |
| QBA420A                                 | 3/0 AWG CU  | 345                         | 3    | 7 AWG        | 0.458 | 1.20                     | 1.27 | 3.08                      | 4662  | 22                               | 250 | 285                           |  |                         |             |                              |  |                   |  |  |
| QBB420A                                 | 4/0 AWG CU  | 345                         | 3    | 7 AWG        | 0.515 | 1.26                     | 1.33 | 3.21                      | 5245  | 23                               | 285 | 325                           |  |                         |             |                              |  |                   |  |  |
| QBC420A                                 | 250 MCM CU  | 345                         | 3    | 7 AWG        | 0.561 | 1.31                     | 1.38 | 3.32                      | 5762  | 24                               | 310 | 360                           |  |                         |             |                              |  |                   |  |  |
| QBD420A                                 | 350 MCM CU  | 345                         | 3    | 6 AWG        | 0.664 | 1.41                     | 1.48 | 3.54                      | 7060  | 25                               | 375 | 435                           |  |                         |             |                              |  |                   |  |  |
| QBE420A                                 | 500 MCM CU  | 345                         | 3    | 5 AWG        | 0.794 | 1.54                     | 1.63 | 3.86                      | 9015  | 27                               | 450 | 535                           |  |                         |             |                              |  |                   |  |  |

†Ampacities are based on the following:

Information Subject to Change without Notice.

**PRODUCT NOTES:**

▲ Items are Prysmian authorized stock. The above dimensions are approximate and subject to normal manufacturing tolerances.

**Three Phase Operation**

In Duct (NEC Table 310-79): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

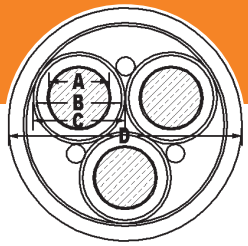
Isolated in Air (NEC Table 310-71): Three-conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-71 (Copper), "Isolated in Air" values noted above.



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# 3/C TRXLPE MV-90 Power

25kV

100% | 133%

| Product Number                            | Conductor   | Insulation Thickness (mils) |      | Ground Wires |       | Conductor Diameter (in.) |      | Insulation Diameter (in.) |      | Overall Shield Diameter (in.) |     | Overall Jacket Diameter (in.) |  | Cable Weight (lbs/ft) |             | Minimum Bending Radius (in.) |  | † Ampacity (Amps) |  |  |
|---|-------------|-----------------------------|------|--------------|-------|--------------------------|------|---------------------------|------|-------------------------------|-----|-------------------------------|--|-----------------------|-------------|------------------------------|--|-------------------|--|--|
|   |             | No.                         | Size | (A)          | (B)   | (C)                      | (D)  |                           |      |                               |     |                               |  | 90°C In Duct          | 90°C In Air |                              |  |                   |  |  |
| <b>25kV 100% Aluminum Three Conductor</b> |             |                             |      |              |       |                          |      |                           |      |                               |     |                               |  |                       |             |                              |  |                   |  |  |
| Q9042ØA                                   | 1 AWG AL    | 260                         | 3    | 10 AWG       | 0.324 | 0.89                     | 0.95 | 2.32                      | 2068 | 17                            | 135 | 145                           |  |                       |             |                              |  |                   |  |  |
| Q9Q42ØA                                   | 1/0 AWG AL  | 260                         | 3    | 10 AWG       | 0.364 | 0.93                     | 0.99 | 2.41                      | 2230 | 17                            | 150 | 170                           |  |                       |             |                              |  |                   |  |  |
| Q9R42ØA                                   | 2/0 AWG AL  | 260                         | 3    | 8 AWG        | 0.408 | 0.98                     | 1.03 | 2.50                      | 2476 | 18                            | 170 | 190                           |  |                       |             |                              |  |                   |  |  |
| Q9S42ØA                                   | 3/0 AWG AL  | 260                         | 3    | 8 AWG        | 0.458 | 1.03                     | 1.10 | 2.65                      | 2761 | 19                            | 195 | 220                           |  |                       |             |                              |  |                   |  |  |
| Q9T42ØA                                   | 4/0 AWG AL  | 260                         | 3    | 8 AWG        | 0.515 | 1.08                     | 1.16 | 2.77                      | 3034 | 20                            | 220 | 255                           |  |                       |             |                              |  |                   |  |  |
| Q9U42ØA                                   | 250 MCM AL  | 260                         | 3    | 8 AWG        | 0.561 | 1.14                     | 1.21 | 2.94                      | 3444 | 21                            | 245 | 280                           |  |                       |             |                              |  |                   |  |  |
| Q9V42ØA                                   | 350 MCM AL  | 260                         | 3    | 7 AWG        | 0.664 | 1.24                     | 1.31 | 3.16                      | 4055 | 23                            | 295 | 345                           |  |                       |             |                              |  |                   |  |  |
| Q9W42ØA                                   | 500 MCM AL  | 260                         | 3    | 6 AWG        | 0.794 | 1.37                     | 1.44 | 3.45                      | 4900 | 25                            | 355 | 425                           |  |                       |             |                              |  |                   |  |  |
| Q9X42ØA                                   | 750 MCM AL  | 260                         | 3    | 5 AWG        | 0.974 | 1.56                     | 1.64 | 3.89                      | 6319 | 28                            | 440 | 540                           |  |                       |             |                              |  |                   |  |  |
| Q9Y42ØA                                   | 1000 MCM AL | 260                         | 3    | 4 AWG        | 1.124 | 1.71                     | 1.79 | 4.21                      | 7577 | 30                            | 510 | 635                           |  |                       |             |                              |  |                   |  |  |
| <b>25kV 133% Aluminum Three Conductor</b> |             |                             |      |              |       |                          |      |                           |      |                               |     |                               |  |                       |             |                              |  |                   |  |  |
| QBQ42ØA                                   | 1/0 AWG AL  | 345                         | 3    | 10 AWG       | 0.364 | 1.11                     | 1.18 | 2.88                      | 3031 | 21                            | 150 | 170                           |  |                       |             |                              |  |                   |  |  |
| QBR42ØA                                   | 2/0 AWG AL  | 345                         | 3    | 8 AWG        | 0.408 | 1.15                     | 1.22 | 2.97                      | 3303 | 21                            | 170 | 190                           |  |                       |             |                              |  |                   |  |  |
| QBS42ØA                                   | 3/0 AWG AL  | 345                         | 3    | 8 AWG        | 0.458 | 1.20                     | 1.27 | 3.08                      | 3555 | 22                            | 195 | 220                           |  |                       |             |                              |  |                   |  |  |
| QBT42ØA                                   | 4/0 AWG AL  | 345                         | 3    | 8 AWG        | 0.515 | 1.26                     | 1.33 | 3.21                      | 3859 | 23                            | 220 | 255                           |  |                       |             |                              |  |                   |  |  |
| QBU42ØA                                   | 250 MCM AL  | 345                         | 3    | 8 AWG        | 0.561 | 1.31                     | 1.38 | 3.32                      | 4132 | 24                            | 245 | 280                           |  |                       |             |                              |  |                   |  |  |
| QBV42ØA                                   | 350 MCM AL  | 345                         | 3    | 7 AWG        | 0.664 | 1.41                     | 1.48 | 3.54                      | 4785 | 25                            | 295 | 345                           |  |                       |             |                              |  |                   |  |  |
| QBW42ØA                                   | 500 MCM AL  | 345                         | 3    | 6 AWG        | 0.794 | 1.54                     | 1.63 | 3.86                      | 5771 | 27                            | 355 | 425                           |  |                       |             |                              |  |                   |  |  |

†Ampacities are based on the following:

Information Subject to Change without Notice.

**PRODUCT NOTES:**

**Three Phase Operation**

▲ Items are Prysmian authorized stock. The above dimensions are approximate and subject to normal manufacturing tolerances.

In Duct (NEC Table 310-80): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

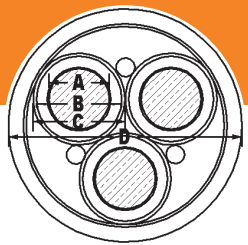
Isolated in Air (NEC Table 310-72): Three-conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-72 (Aluminum), "Isolated in Air" values noted above.



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# 3/C TRXLPE MV-90 Power

35kV

100% | 133%

| Product Number                          | Conductor  | Insulation Thickness (mils) |      | Ground Wires |       | Conductor Diameter (in.) |      | Insulation Diameter (in.) |      | Insulation Shield Diameter (in.) |  | Overall Jacket Diameter (in.) |     | Cable Weight (lbs/100') |             | Minimum Bending Radius (in.) |  | † Ampacity (Amps) |  |  |
|---|------------|-----------------------------|------|--------------|-------|--------------------------|------|---------------------------|------|----------------------------------|--|-------------------------------|-----|-------------------------|-------------|------------------------------|--|-------------------|--|--|
|   |            | No.                         | Size | (A)          | (B)   | (C)                      | (D)  |                           |      |                                  |  |                               |     | 90°C In Duct            | 90°C In Air |                              |  |                   |  |  |
| <b>35kV 100% Copper Three Conductor</b> |            |                             |      |              |       |                          |      |                           |      |                                  |  |                               |     |                         |             |                              |  |                   |  |  |
| QB8420A                                 | 1/0 AWG CU | 345                         | 3    | 8 AWG        | 0.364 | 1.11                     | 1.18 | 2.88                      | 3761 | 21                               |  |                               | 195 | 215                     |             |                              |  |                   |  |  |
| QB9420A                                 | 2/0 AWG CU | 345                         | 3    | 8 AWG        | 0.408 | 1.15                     | 1.22 | 2.97                      | 4151 | 21                               |  |                               | 220 | 245                     |             |                              |  |                   |  |  |
| QBA420A                                 | 3/0 AWG CU | 345                         | 3    | 7 AWG        | 0.458 | 1.20                     | 1.27 | 3.08                      | 4662 | 22                               |  |                               | 250 | 285                     |             |                              |  |                   |  |  |
| QBB420A                                 | 4/0 AWG CU | 345                         | 3    | 7 AWG        | 0.515 | 1.26                     | 1.33 | 3.21                      | 5245 | 23                               |  |                               | 285 | 325                     |             |                              |  |                   |  |  |
| QBC420A                                 | 250 MCM CU | 345                         | 3    | 7 AWG        | 0.561 | 1.31                     | 1.38 | 3.32                      | 5762 | 24                               |  |                               | 310 | 360                     |             |                              |  |                   |  |  |
| QBD420A                                 | 350 MCM CU | 345                         | 3    | 6 AWG        | 0.664 | 1.41                     | 1.48 | 3.54                      | 7060 | 25                               |  |                               | 375 | 435                     |             |                              |  |                   |  |  |
| QBE420A                                 | 500 MCM CU | 345                         | 3    | 5 AWG        | 0.794 | 1.54                     | 1.63 | 3.86                      | 9015 | 27                               |  |                               | 450 | 535                     |             |                              |  |                   |  |  |
| <b>35kV 133% Copper Three Conductor</b> |            |                             |      |              |       |                          |      |                           |      |                                  |  |                               |     |                         |             |                              |  |                   |  |  |
| QC8420A                                 | 1/0 AWG CU | 420                         | 3    | 8 AWG        | 0.364 | 1.26                     | 1.33 | 3.21                      | 4356 | 23                               |  |                               | 195 | 215                     |             |                              |  |                   |  |  |
| QC9420A                                 | 2/0 AWG CU | 420                         | 3    | 8 AWG        | 0.408 | 1.30                     | 1.38 | 3.31                      | 4761 | 24                               |  |                               | 220 | 245                     |             |                              |  |                   |  |  |
| QCA420A                                 | 3/0 AWG CU | 420                         | 3    | 7 AWG        | 0.458 | 1.35                     | 1.43 | 3.41                      | 5291 | 24                               |  |                               | 250 | 285                     |             |                              |  |                   |  |  |
| QCB420A                                 | 4/0 AWG CU | 420                         | 3    | 7 AWG        | 0.515 | 1.41                     | 1.48 | 3.54                      | 5895 | 25                               |  |                               | 285 | 325                     |             |                              |  |                   |  |  |
| QCC420A                                 | 250 MCM CU | 420                         | 3    | 7 AWG        | 0.561 | 1.46                     | 1.54 | 3.65                      | 6430 | 26                               |  |                               | 310 | 360                     |             |                              |  |                   |  |  |
| QCD420A                                 | 350 MCM CU | 420                         | 3    | 6 AWG        | 0.664 | 1.57                     | 1.65 | 3.91                      | 7854 | 28                               |  |                               | 375 | 435                     |             |                              |  |                   |  |  |
| QCE420A                                 | 500 MCM CU | 420                         | 3    | 5 AWG        | 0.794 | 1.70                     | 1.78 | 4.19                      | 9775 | 30                               |  |                               | 450 | 535                     |             |                              |  |                   |  |  |

†Ampacities are based on the following:

Information Subject to Change without Notice.

**PRODUCT NOTES:**

▲ Items are Prysmian authorized stock. The above dimensions are approximate and subject to normal manufacturing tolerances.

**Three Phase Operation**

In Duct (NEC Table 310-79): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

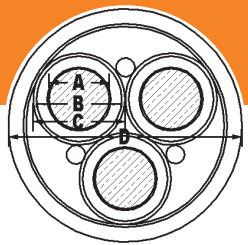
Isolated in Air (NEC Table 310-71): Three-conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-71 (Copper), "Isolated in Air" values noted above.



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# 3/C TRXLPE MV-90 Power

35kV

100% | 133%

| Product Number                            | Conductor  | Insulation Thickness (mils) |      | Ground Wires |       | Conductor Diameter (in.) |      | Insulation Diameter (in.) |      | Insulation Shield Diameter (in.) |  | Overall Jacket Diameter (in.) |     | Cable Weight (lbs/100ft) |             | Minimum Bending Radius (in.) |  | † Ampacity (Amps) |  |  |
|---|------------|-----------------------------|------|--------------|-------|--------------------------|------|---------------------------|------|----------------------------------|--|-------------------------------|-----|--------------------------|-------------|------------------------------|--|-------------------|--|--|
|   |            | No.                         | Size | (A)          | (B)   | (C)                      | (D)  |                           |      |                                  |  |                               |     | 90°C In Duct             | 90°C In Air |                              |  |                   |  |  |
| <b>35kV 100% Aluminum Three Conductor</b> |            |                             |      |              |       |                          |      |                           |      |                                  |  |                               |     |                          |             |                              |  |                   |  |  |
| QBQ420A                                   | 1/0 AWG AL | 345                         | 3    | 10 AWG       | 0.364 | 1.11                     | 1.18 | 2.88                      | 3031 | 21                               |  |                               | 150 | 170                      |             |                              |  |                   |  |  |
| QBR420A                                   | 2/0 AWG AL | 345                         | 3    | 8 AWG        | 0.408 | 1.15                     | 1.22 | 2.97                      | 3303 | 21                               |  |                               | 170 | 190                      |             |                              |  |                   |  |  |
| QBS420A                                   | 3/0 AWG AL | 345                         | 3    | 8 AWG        | 0.458 | 1.20                     | 1.27 | 3.08                      | 3555 | 22                               |  |                               | 195 | 220                      |             |                              |  |                   |  |  |
| QBT420A                                   | 4/0 AWG AL | 345                         | 3    | 8 AWG        | 0.515 | 1.26                     | 1.33 | 3.21                      | 3859 | 23                               |  |                               | 220 | 255                      |             |                              |  |                   |  |  |
| QBU420A                                   | 250 MCM AL | 345                         | 3    | 8 AWG        | 0.561 | 1.31                     | 1.38 | 3.32                      | 4132 | 24                               |  |                               | 245 | 280                      |             |                              |  |                   |  |  |
| QBV420A                                   | 350 MCM AL | 345                         | 3    | 7 AWG        | 0.664 | 1.41                     | 1.48 | 3.54                      | 4785 | 25                               |  |                               | 295 | 345                      |             |                              |  |                   |  |  |
| QBW420A                                   | 500 MCM AL | 345                         | 3    | 6 AWG        | 0.794 | 1.54                     | 1.63 | 3.86                      | 5771 | 27                               |  |                               | 355 | 425                      |             |                              |  |                   |  |  |
| <b>35kV 133% Aluminum Three Conductor</b> |            |                             |      |              |       |                          |      |                           |      |                                  |  |                               |     |                          |             |                              |  |                   |  |  |
| QCQ420A                                   | 1/0 AWG AL | 420                         | 3    | 10 AWG       | 0.364 | 1.26                     | 1.33 | 3.21                      | 3626 | 23                               |  |                               | 150 | 170                      |             |                              |  |                   |  |  |
| QCR420A                                   | 2/0 AWG AL | 420                         | 3    | 8 AWG        | 0.408 | 1.30                     | 1.38 | 3.31                      | 3914 | 24                               |  |                               | 170 | 190                      |             |                              |  |                   |  |  |
| QCS420A                                   | 3/0 AWG AL | 420                         | 3    | 8 AWG        | 0.458 | 1.35                     | 1.43 | 3.41                      | 4184 | 24                               |  |                               | 195 | 220                      |             |                              |  |                   |  |  |
| QCT420A                                   | 4/0 AWG AL | 420                         | 3    | 8 AWG        | 0.515 | 1.41                     | 1.48 | 3.54                      | 4509 | 25                               |  |                               | 220 | 255                      |             |                              |  |                   |  |  |
| QCU420A                                   | 250 MCM AL | 420                         | 3    | 8 AWG        | 0.561 | 1.46                     | 1.54 | 3.65                      | 4800 | 26                               |  |                               | 245 | 280                      |             |                              |  |                   |  |  |
| QCV420A                                   | 350 MCM AL | 420                         | 3    | 7 AWG        | 0.664 | 1.57                     | 1.65 | 3.91                      | 5580 | 28                               |  |                               | 295 | 345                      |             |                              |  |                   |  |  |
| QCW420A                                   | 500 MCM AL | 420                         | 3    | 6 AWG        | 0.794 | 1.70                     | 1.78 | 4.19                      | 6531 | 30                               |  |                               | 355 | 425                      |             |                              |  |                   |  |  |

†Ampacities are based on the following:

Information Subject to Change without Notice.

**PRODUCT NOTES:**

▲ Items are Prysmian authorized stock. The above dimensions are approximate and subject to normal manufacturing tolerances.

**Three Phase Operation**

In Duct (NEC Table 310-80): Three-conductor cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, and shields short-circuited.

Isolated in Air (NEC Table 310-72): Three-conductor cable, 90°C conductor temperature, 40°C ambient temperature, and shields short-circuited.

In Cable Tray: Per NEC Article 392-13, for multi-conductor cables installed in a single layer in an uncovered cable tray, with maintained spacing of not less than one cable diameter between cables, the ampacities shall not exceed the allowable ampacities stated in Table 310-72 (Aluminum), "Isolated in Air" values noted above.



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