A brand of the Prysmian Group

# 5-46kV TRXLPE **URD**

## Medium Voltage Utility Cables

### *Description*

Single conductor cable with aluminum or copper conductors, triple extruded insulation system consisting of a thermosetting semiconducting conductor shield, high dielectric strength VOLTALENE™ TRXLPE insulation, thermosetting semiconducting insulation shield, copper concentric neutral wires, black encapsulating linear low-density polyethylene (LLDPE) jacket.

### *Specifications and ratings*

**AEIC**- AEIC CS8
**ICEA**- ICEA S-94-649

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

### *Options*

- Black LLDPE jacket with no stripes
- Black PVC jacket sleeved over separator tape
- No Jacket
- Multiplex cables
- Tinned round and flat strap neutrals
- Compact stranded conductors
- Strandseal®
- Super smooth conductor shield
- UL MV-90 Rating if required
- 46kV
- RUS Bulletin 1728F-U1 where applicable

### *Installation*

Conduit in Air
Direct Buried
Underground Duct
Isolated in Air
Wet Locations
Dry Locations
With Messenger
Utility Primary

### *Design Parameters*

**CONDUCTORS:** Solid or 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 VOLTENE™ 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:** Solid bare copper wires, helically applied and uniformly spaced.

**JACKET:** Black insulating sunlight resistant linear low density polyethylene encapsulating the neutral wires with three extruded red stripes and NESC lightning bolt symbol.

**Prysmian Group**
**700 Industrial Drive | Lexington, SC 29072 | +1-800-845-8507 | website: na.prysmiangroup.com**
**137 Commerce Drive | Johnstown, Ontario K0E 1T1**



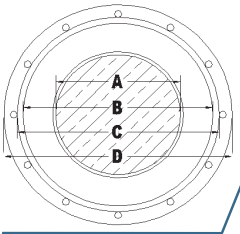
PDN-0023-0713

PRYSMIAN

A brand of the Prysmian Group

# 5kV TRXLPE URD

## 100% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (μΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (μΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (μΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (μΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (μΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **5KV 100% Aluminum Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| Q4L010A | 2 SOLID AL | 90 | 10-#14 | 0.258 | 0.48 | 0.55 | 0.79 | 360 | 7 | 119 | 663 | 24 | 663 | 25 | 169 | 663 | 24 | 663 | 25 |
| Q4M010A | 2 AWG AL | 90 | 10-#14 | 0.284 | 0.51 | 0.58 | 0.82 | 375 | 7 | 120 | 669 | 25 | 669 | 25 | 170 | 669 | 25 | 669 | 25 |
| Q4N010A | 1 SOLID AL | 90 | 13-#14 | 0.289 | 0.52 | 0.58 | 0.82 | 422 | 7 | 136 | 518 | 23 | 518 | 23 | 193 | 518 | 23 | 518 | 23 |
| Q4O010A | 1 AWG AL | 90 | 13-#14 | 0.324 | 0.55 | 0.62 | 0.86 | 439 | 7 | 138 | 523 | 22 | 523 | 22 | 195 | 523 | 22 | 523 | 22 |
| Q4P010A | 1/0 SOLID AL | 90 | 16-#14 | 0.325 | 0.55 | 0.62 | 0.86 | 490 | 7 | 155 | 415 | 22 | 415 | 22 | 219 | 415 | 22 | 415 | 22 |
| Q4Q010A | 1/0 AWG AL | 90 | 16-#14 | 0.364 | 0.59 | 0.66 | 0.90 | 509 | 8 | 156 | 420 | 21 | 420 | 21 | 220 | 420 | 21 | 420 | 21 |
| Q4R010A | 2/0 AWG AL | 90 | 13-#12 | 0.408 | 0.63 | 0.70 | 0.97 | 627 | 8 | 181 | 328 | 21 | 328 | 20 | 251 | 328 | 21 | 328 | 20 |
| Q4S010A | 3/0 AWG AL | 90 | 16-#12 | 0.458 | 0.68 | 0.75 | 1.02 | 736 | 9 | 206 | 263 | 20 | 263 | 19 | 285 | 263 | 20 | 263 | 19 |
| Q4T010A | 4/0 AWG AL | 90 | 13-#10 | 0.515 | 0.74 | 0.81 | 1.12 | 914 | 9 | 237 | 207 | 19 | 207 | 19 | 323 | 207 | 19 | 207 | 19 |
| Q4U010A | 250 MCM AL | 90 | 16-#10 | 0.561 | 0.80 | 0.86 | 1.18 | 1076 | 10 | 264 | 171 | 18 | 171 | 18 | 358 | 171 | 18 | 171 | 18 |
| Q4V010A | 350 MCM AL | 90 | 16-#9 | 0.664 | 0.90 | 0.97 | 1.30 | 1362 | 11 | 314 | 130 | 17 | 130 | 17 | 421 | 130 | 17 | 130 | 17 |
| **5KV 100% Aluminum Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| Q4L000A | 2 SOLID AL | 90 | 6-#14 | 0.258 | 0.48 | 0.55 | 0.79 | 313 | 7 | 123 | 329 | 46 | 876 | 25 | 178 | 340 | 103 | 864 | 25 |
| Q4M000A | 2 AWG AL | 90 | 6-#14 | 0.284 | 0.51 | 0.58 | 0.82 | 329 | 7 | 123 | 335 | 46 | 883 | 25 | 179 | 346 | 102 | 872 | 25 |
| Q4N000A | 1 SOLID AL | 90 | 6-#14 | 0.289 | 0.52 | 0.58 | 0.82 | 340 | 7 | 140 | 261 | 45 | 809 | 23 | 202 | 272 | 100 | 798 | 23 |
| Q4O000A | 1 AWG AL | 90 | 6-#14 | 0.324 | 0.55 | 0.62 | 0.86 | 357 | 7 | 140 | 266 | 44 | 815 | 22 | 203 | 276 | 98 | 804 | 22 |
| Q4P000A | 1/0 SOLID AL | 90 | 6-#14 | 0.325 | 0.55 | 0.62 | 0.86 | 373 | 7 | 159 | 207 | 43 | 756 | 22 | 229 | 217 | 98 | 746 | 22 |
| Q4Q000A | 1/0 AWG AL | 90 | 6-#14 | 0.364 | 0.59 | 0.66 | 0.90 | 393 | 8 | 160 | 212 | 42 | 762 | 21 | 229 | 222 | 96 | 752 | 21 |
| Q4R000A | 2/0 AWG AL | 90 | 7-#14 | 0.408 | 0.63 | 0.70 | 0.94 | 447 | 8 | 182 | 168 | 40 | 640 | 20 | 258 | 179 | 93 | 632 | 20 |
| Q4S000A | 3/0 AWG AL | 90 | 9-#14 | 0.458 | 0.68 | 0.75 | 0.99 | 522 | 8 | 208 | 133 | 39 | 500 | 19 | 290 | 146 | 89 | 495 | 19 |
| Q4T000A | 4/0 AWG AL | 90 | 11-#14 | 0.515 | 0.74 | 0.81 | 1.05 | 608 | 9 | 237 | 107 | 38 | 407 | 18 | 323 | 122 | 85 | 403 | 18 |
| Q4U000A | 250 MCM AL | 90 | 13-#14 | 0.561 | 0.80 | 0.86 | 1.10 | 693 | 9 | 261 | 91 | 37 | 344 | 17 | 348 | 107 | 82 | 342 | 17 |
| Q4V000A | 350 MCM AL | 90 | 18-#14 | 0.664 | 0.90 | 0.97 | 1.20 | 887 | 10 | 314 | 66 | 35 | 249 | 15 | 399 | 86 | 75 | 247 | 15 |
| Q4W000A | 500 MCM AL | 90 | 16-#12 | 0.794 | 1.03 | 1.12 | 1.39 | 1219 | 12 | 381 | 48 | 34 | 175 | 15 | 449 | 70 | 66 | 174 | 15 |
| Q4X000A | 750 MCM AL | 90 | 24-#12 | 0.974 | 1.22 | 1.30 | 1.58 | 1691 | 13 | 464 | 34 | 32 | 117 | 14 | 505 | 58 | 54 | 117 | 14 |
| Q4Y000A | 1000 MCM AL | 90 | 20-#10 | 1.124 | 1.37 | 1.45 | 1.83 | 2255 | 15 | 522 | 29 | 31 | 89 | 13 | 541 | 51 | 45 | 88 | 13 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.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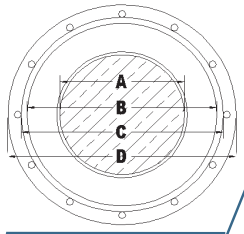
# 5kV TRXLPE URD

## 100% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (μΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (μΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (μΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (μΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (μΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **5kV 100% Copper Single Phase – Full Neutral** | | | | | | | | | | | | | | | | | | | |
| Q43010A | 2 SOLID CU | 90 | 16-#14 | 0.258 | 0.48 | 0.55 | 0.79 | 570 | 7 | 152 | 408 | 25 | 408 | 25 | 215 | 408 | 25 | 408 | 25 |
| Q44010A | 2 AWG CU | 90 | 16-#14 | 0.284 | 0.51 | 0.58 | 0.82 | 584 | 7 | 153 | 412 | 25 | 412 | 25 | 217 | 412 | 25 | 412 | 25 |
| Q45010A | 1 SOLID CU | 90 | 13-#12 | 0.289 | 0.52 | 0.58 | 0.85 | 704 | 7 | 175 | 318 | 24 | 318 | 24 | 245 | 318 | 24 | 318 | 24 |
| Q46010A | 1 AWG CU | 90 | 13-#12 | 0.324 | 0.55 | 0.62 | 0.89 | 724 | 8 | 176 | 322 | 23 | 322 | 23 | 247 | 322 | 23 | 322 | 23 |
| Q47010A | 1/0 SOLID CU | 90 | 16-#12 | 0.325 | 0.55 | 0.62 | 0.89 | 841 | 8 | 198 | 256 | 23 | 256 | 22 | 277 | 256 | 23 | 256 | 22 |
| Q48010A | 1/0 AWG CU | 90 | 16-#12 | 0.364 | 0.59 | 0.66 | 0.93 | 862 | 8 | 200 | 258 | 22 | 258 | 22 | 280 | 258 | 22 | 258 | 22 |
| Q49010A | 2/0 AWG CU | 90 | 13-#10 | 0.408 | 0.63 | 0.70 | 1.02 | 1076 | 9 | 231 | 203 | 22 | 203 | 21 | 317 | 203 | 22 | 203 | 21 |
| Q4A010A | 3/0 AWG CU | 90 | 16-#10 | 0.458 | 0.68 | 0.75 | 1.07 | 1291 | 9 | 262 | 163 | 20 | 163 | 20 | 359 | 163 | 20 | 163 | 20 |
| Q4B010A | 4/0 AWG CU | 90 | 16-#9 | 0.515 | 0.74 | 0.81 | 1.15 | 1590 | 10 | 300 | 130 | 20 | 130 | 19 | 407 | 130 | 20 | 130 | 19 |
| **5kV 100% Copper Three Phase – One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| Q43000A | 2 SOLID CU | 90 | 6-#14 | 0.258 | 0.48 | 0.55 | 0.79 | 453 | 7 | 157 | 200 | 46 | 747 | 25 | 227 | 211 | 103 | 735 | 25 |
| Q44000A | 2 AWG CU | 90 | 6-#14 | 0.284 | 0.51 | 0.58 | 0.82 | 468 | 7 | 158 | 203 | 46 | 752 | 25 | 228 | 214 | 102 | 740 | 25 |
| Q45000A | 1 SOLID CU | 90 | 7-#14 | 0.289 | 0.52 | 0.58 | 0.82 | 527 | 7 | 179 | 159 | 44 | 628 | 23 | 256 | 171 | 100 | 619 | 23 |
| Q46000A | 1 AWG CU | 90 | 7-#14 | 0.324 | 0.55 | 0.62 | 0.86 | 545 | 7 | 180 | 162 | 44 | 633 | 22 | 256 | 174 | 98 | 624 | 22 |
| Q47000A | 1/0 SOLID CU | 90 | 9-#14 | 0.325 | 0.55 | 0.62 | 0.86 | 630 | 7 | 204 | 126 | 43 | 492 | 22 | 286 | 141 | 96 | 485 | 22 |
| Q48000A | 1/0 AWG CU | 90 | 9-#14 | 0.364 | 0.59 | 0.66 | 0.90 | 651 | 8 | 205 | 129 | 42 | 495 | 21 | 287 | 143 | 94 | 489 | 21 |
| Q49000A | 2/0 AWG CU | 90 | 11-#14 | 0.408 | 0.63 | 0.70 | 0.94 | 775 | 8 | 233 | 103 | 40 | 402 | 20 | 320 | 119 | 90 | 398 | 20 |
| Q4A000A | 3/0 AWG CU | 90 | 14-#14 | 0.458 | 0.68 | 0.75 | 0.99 | 934 | 8 | 265 | 82 | 39 | 317 | 19 | 353 | 101 | 85 | 314 | 19 |
| Q4B000A | 4/0 AWG CU | 90 | 18-#14 | 0.515 | 0.74 | 0.81 | 1.05 | 1136 | 9 | 301 | 66 | 38 | 248 | 18 | 385 | 88 | 79 | 247 | 18 |
| Q4C000A | 250 MCM CU | 90 | 21-#14 | 0.561 | 0.80 | 0.86 | 1.10 | 1317 | 9 | 330 | 57 | 36 | 212 | 17 | 409 | 80 | 75 | 211 | 17 |
| Q4D000A | 350 MCM CU | 90 | 18-#12 | 0.664 | 0.90 | 0.97 | 1.24 | 1780 | 10 | 393 | 42 | 35 | 154 | 16 | 452 | 68 | 65 | 154 | 16 |
| Q4E000A | 500 MCM CU | 90 | 17-#10 | 0.794 | 1.03 | 1.12 | 1.43 | 2521 | 12 | 464 | 32 | 34 | 105 | 15 | 494 | 58 | 53 | 104 | 15 |
| Q4F000A | 750 MCM CU | 90 | 20-#9 | 0.974 | 1.22 | 1.30 | 1.70 | 3718 | 14 | 540 | 26 | 35 | 72 | 14 | 552 | 48 | 40 | 71 | 14 |
| Q4G000A | 1000 MCM CU | 90 | 21-#8 | 1.124 | 1.37 | 1.45 | 1.88 | 4847 | 16 | 586 | 23 | 29 | 54 | 13 | 607 | 41 | 31 | 53 | 13 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.

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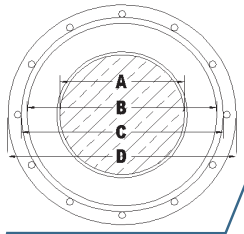
# 5kV TRXLPE URD

## 133% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (μΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (μΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (μΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (μΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (μΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **5kV 133% Aluminum Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| Q5L010A | 2 SOLID AL | 115 | 10-#14 | 0.258 | 0.53 | 0.60 | 0.84 | 386 | 7 | 119 | 663 | 24 | 663 | 25 | 169 | 663 | 24 | 663 | 25 |
| Q5M010A | 2 AWG AL | 115 | 10-#14 | 0.284 | 0.56 | 0.63 | 0.87 | 402 | 7 | 120 | 669 | 25 | 669 | 25 | 170 | 669 | 25 | 669 | 25 |
| Q5N010A | 1 SOLID AL | 115 | 13-#14 | 0.289 | 0.57 | 0.63 | 0.87 | 449 | 7 | 136 | 518 | 23 | 518 | 23 | 193 | 518 | 23 | 518 | 23 |
| Q5O010A | 1 AWG AL | 115 | 13-#14 | 0.324 | 0.60 | 0.67 | 0.91 | 467 | 8 | 138 | 523 | 22 | 523 | 22 | 195 | 523 | 22 | 523 | 22 |
| Q5P010A | 1/0 SOLID AL | 115 | 16-#14 | 0.325 | 0.60 | 0.67 | 0.91 | 518 | 8 | 155 | 415 | 22 | 415 | 22 | 219 | 415 | 22 | 415 | 22 |
| Q5Q010A | 1/0 AWG AL | 115 | 16-#14 | 0.364 | 0.64 | 0.71 | 0.95 | 539 | 8 | 156 | 420 | 21 | 420 | 21 | 220 | 420 | 21 | 420 | 21 |
| Q5R010A | 2/0 AWG AL | 115 | 13-#12 | 0.408 | 0.68 | 0.75 | 1.02 | 659 | 9 | 181 | 328 | 21 | 328 | 20 | 251 | 328 | 21 | 328 | 20 |
| Q5S010A | 3/0 AWG AL | 115 | 16-#12 | 0.458 | 0.73 | 0.80 | 1.07 | 769 | 9 | 206 | 263 | 20 | 263 | 19 | 285 | 263 | 20 | 263 | 19 |
| Q5T010A | 4/0 AWG AL | 115 | 13-#10 | 0.515 | 0.79 | 0.86 | 1.17 | 951 | 10 | 237 | 207 | 19 | 207 | 19 | 323 | 207 | 19 | 207 | 19 |
| Q5U010A | 250 MCM AL | 115 | 16-#10 | 0.561 | 0.85 | 0.91 | 1.23 | 1115 | 10 | 264 | 171 | 18 | 171 | 18 | 358 | 171 | 18 | 171 | 18 |
| Q5V010A | 350 MCM AL | 115 | 16-#9 | 0.664 | 0.95 | 1.02 | 1.35 | 1405 | 11 | 314 | 130 | 17 | 130 | 17 | 421 | 130 | 17 | 130 | 17 |
| **5kV 133% Aluminum Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| Q5L000A | 2 SOLID AL | 115 | 6-#14 | 0.258 | 0.53 | 0.60 | 0.84 | 339 | 7 | 123 | 329 | 46 | 876 | 25 | 178 | 340 | 103 | 864 | 25 |
| Q5M000A | 2 AWG AL | 115 | 6-#14 | 0.284 | 0.56 | 0.63 | 0.87 | 356 | 7 | 123 | 335 | 46 | 883 | 25 | 179 | 346 | 102 | 872 | 25 |
| Q5N000A | 1 SOLID AL | 115 | 6-#14 | 0.289 | 0.57 | 0.63 | 0.87 | 367 | 7 | 140 | 261 | 45 | 809 | 23 | 202 | 272 | 100 | 798 | 23 |
| Q5O000A | 1 AWG AL | 115 | 6-#14 | 0.324 | 0.60 | 0.67 | 0.91 | 385 | 8 | 140 | 266 | 44 | 815 | 22 | 203 | 276 | 98 | 804 | 22 |
| Q5P000A | 1/0 SOLID AL | 115 | 6-#14 | 0.325 | 0.60 | 0.67 | 0.91 | 401 | 8 | 159 | 207 | 43 | 756 | 22 | 229 | 217 | 98 | 746 | 22 |
| Q5Q000A | 1/0 AWG AL | 115 | 6-#14 | 0.364 | 0.64 | 0.71 | 0.95 | 422 | 8 | 160 | 212 | 42 | 762 | 21 | 229 | 222 | 96 | 752 | 21 |
| Q5R000A | 2/0 AWG AL | 115 | 7-#14 | 0.408 | 0.68 | 0.75 | 0.99 | 478 | 8 | 182 | 168 | 40 | 640 | 20 | 258 | 179 | 93 | 632 | 20 |
| Q5S000A | 3/0 AWG AL | 115 | 9-#14 | 0.458 | 0.73 | 0.80 | 1.04 | 554 | 9 | 208 | 133 | 39 | 500 | 19 | 290 | 146 | 89 | 495 | 19 |
| Q5T000A | 4/0 AWG AL | 115 | 11-#14 | 0.515 | 0.79 | 0.86 | 1.10 | 642 | 9 | 237 | 107 | 38 | 407 | 18 | 323 | 122 | 85 | 403 | 18 |
| Q5U000A | 250 MCM AL | 115 | 13-#14 | 0.561 | 0.85 | 0.91 | 1.15 | 729 | 10 | 261 | 91 | 37 | 344 | 17 | 348 | 107 | 82 | 342 | 17 |
| Q5V000A | 350 MCM AL | 115 | 18-#14 | 0.664 | 0.95 | 1.02 | 1.25 | 926 | 11 | 314 | 66 | 35 | 249 | 15 | 399 | 86 | 75 | 247 | 15 |
| Q5W000A | 500 MCM AL | 115 | 16-#12 | 0.794 | 1.08 | 1.17 | 1.44 | 1264 | 12 | 381 | 48 | 34 | 175 | 15 | 449 | 70 | 66 | 174 | 15 |
| Q5X000A | 750 MCM AL | 115 | 24-#12 | 0.974 | 1.27 | 1.35 | 1.63 | 1742 | 14 | 464 | 34 | 32 | 117 | 14 | 505 | 58 | 54 | 117 | 14 |
| Q5Y000A | 1000 MCM AL | 115 | 20-#10 | 1.124 | 1.42 | 1.50 | 1.88 | 2314 | 16 | 522 | 29 | 31 | 89 | 13 | 541 | 51 | 45 | 88 | 13 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.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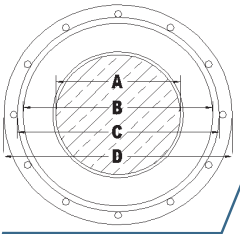
# 5kV TRXLPE URD

## 133% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) | Insulation Diameter (in) | Insulation Shield Diameter (in) | Jacket Diameter (in) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | †Ampacity (Amps) | +/- Sequence Impedance Resistance (µΩ/ft) | +/- Sequence Impedance Reactance (µΩ/ft) | Zero Sequence Impedance Resistance (µΩ/ft)†† | Zero Sequence Impedance Reactance (µΩ/ft)†† | †Ampacity (Amps) | +/- Sequence Impedance Resistance (µΩ/ft) | +/- Sequence Impedance Reactance (µΩ/ft) | Zero Sequence Impedance Resistance (µΩ/ft)†† | Zero Sequence Impedance Reactance (µΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | (A) | (B) | (C) | (D) | | | 90°C In Duct | | | | | 90°C Direct Buried | | | | |
| **5kV 133% Copper Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| Q53010A | 2 SOLID CU | 115 | 16-#14 | 0.258 | 0.53 | 0.60 | 0.84 | 596 | 7 | 152 | 408 | 25 | 408 | 25 | 215 | 408 | 25 | 408 | 25 |
| Q54010A | 2 AWG CU | 115 | 16-#14 | 0.284 | 0.56 | 0.63 | 0.87 | 611 | 7 | 153 | 412 | 25 | 412 | 25 | 217 | 412 | 25 | 412 | 25 |
| Q55010A | 1 SOLID CU | 115 | 13-#12 | 0.289 | 0.57 | 0.63 | 0.90 | 732 | 8 | 175 | 318 | 24 | 318 | 24 | 245 | 318 | 24 | 318 | 24 |
| Q56010A | 1 AWG CU | 115 | 13-#12 | 0.324 | 0.60 | 0.67 | 0.94 | 753 | 8 | 176 | 322 | 23 | 322 | 23 | 247 | 322 | 23 | 322 | 23 |
| Q57010A | 1/0 SOLID CU | 115 | 16-#12 | 0.325 | 0.60 | 0.67 | 0.94 | 871 | 8 | 198 | 256 | 23 | 256 | 22 | 277 | 256 | 23 | 256 | 22 |
| Q58010A | 1/0 AWG CU | 115 | 16-#12 | 0.364 | 0.64 | 0.71 | 0.98 | 893 | 8 | 200 | 258 | 22 | 258 | 22 | 280 | 258 | 22 | 258 | 22 |
| Q59010A | 2/0 AWG CU | 115 | 13-#10 | 0.408 | 0.68 | 0.75 | 1.07 | 1109 | 9 | 231 | 203 | 22 | 203 | 21 | 317 | 203 | 22 | 203 | 21 |
| Q5A010A | 3/0 AWG CU | 115 | 16-#10 | 0.458 | 0.73 | 0.80 | 1.12 | 1326 | 9 | 262 | 163 | 20 | 163 | 20 | 359 | 163 | 20 | 163 | 20 |
| Q5B010A | 4/0 AWG CU | 115 | 16-#9 | 0.515 | 0.79 | 0.86 | 1.20 | 1628 | 10 | 300 | 130 | 20 | 130 | 19 | 407 | 130 | 20 | 130 | 19 |
| **5kV 133% Copper Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| Q53000A | 2 SOLID CU | 115 | 6-#14 | 0.258 | 0.53 | 0.60 | 0.84 | 479 | 7 | 157 | 200 | 46 | 747 | 25 | 227 | 211 | 103 | 735 | 25 |
| Q54000A | 2 AWG CU | 115 | 6-#14 | 0.284 | 0.56 | 0.63 | 0.87 | 495 | 7 | 158 | 203 | 46 | 752 | 25 | 228 | 214 | 102 | 740 | 25 |
| Q55000A | 1 SOLID CU | 115 | 7-#14 | 0.289 | 0.57 | 0.63 | 0.87 | 554 | 7 | 179 | 159 | 44 | 628 | 23 | 256 | 171 | 100 | 619 | 23 |
| Q56000A | 1 AWG CU | 115 | 7-#14 | 0.324 | 0.60 | 0.67 | 0.91 | 573 | 8 | 180 | 162 | 44 | 633 | 22 | 256 | 174 | 98 | 624 | 22 |
| Q57000A | 1/0 SOLID CU | 115 | 9-#14 | 0.325 | 0.60 | 0.67 | 0.91 | 659 | 8 | 204 | 126 | 43 | 492 | 22 | 286 | 141 | 96 | 485 | 22 |
| Q58000A | 1/0 AWG CU | 115 | 9-#14 | 0.364 | 0.64 | 0.71 | 0.95 | 680 | 8 | 205 | 129 | 42 | 495 | 21 | 287 | 143 | 94 | 489 | 21 |
| Q59000A | 2/0 AWG CU | 115 | 11-#14 | 0.408 | 0.68 | 0.75 | 0.99 | 805 | 8 | 233 | 103 | 40 | 402 | 20 | 320 | 119 | 90 | 398 | 20 |
| Q5A000A | 3/0 AWG CU | 115 | 14-#14 | 0.458 | 0.73 | 0.80 | 1.04 | 967 | 9 | 265 | 82 | 39 | 317 | 19 | 353 | 101 | 85 | 314 | 19 |
| Q5B000A | 4/0 AWG CU | 115 | 18-#14 | 0.515 | 0.79 | 0.86 | 1.10 | 1171 | 9 | 301 | 66 | 38 | 248 | 18 | 385 | 88 | 79 | 247 | 18 |
| Q5C000A | 250 MCM CU | 115 | 21-#14 | 0.561 | 0.85 | 0.91 | 1.15 | 1353 | 10 | 330 | 57 | 36 | 212 | 17 | 409 | 80 | 75 | 211 | 17 |
| Q5D000A | 350 MCM CU | 115 | 18-#12 | 0.664 | 0.95 | 1.02 | 1.29 | 1820 | 11 | 393 | 42 | 35 | 154 | 16 | 452 | 68 | 65 | 154 | 16 |
| Q5E000A | 500 MCM CU | 115 | 17-#10 | 0.794 | 1.08 | 1.17 | 1.48 | 2567 | 12 | 464 | 32 | 34 | 105 | 15 | 494 | 58 | 53 | 104 | 15 |
| Q5F000A | 750 MCM CU | 115 | 20-#9 | 0.974 | 1.27 | 1.35 | 1.75 | 3773 | 15 | 540 | 26 | 35 | 72 | 14 | 552 | 48 | 40 | 71 | 14 |
| Q5G000A | 1000 MCM CU | 115 | 21-#8 | 1.124 | 1.42 | 1.50 | 1.93 | 4908 | 16 | 586 | 23 | 29 | 54 | 13 | 607 | 41 | 31 | 53 | 13 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.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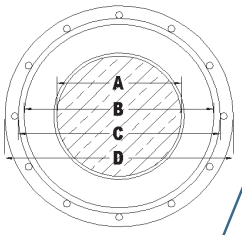
PRYSMIAN

A brand of the Prysmian Group

# 15kV TRXLPE URD

## 100% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (μΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (μΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (μΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (μΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (μΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **15kV 100% Aluminum Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| Q7L010A | 2 SOLID AL | 175 | 10-#14 | 0.258 | 0.65 | 0.72 | 0.96 | 455 | 8 | 123 | 663 | 29 | 663 | 30 | 169 | 663 | 29 | 663 | 30 |
| Q7M010A | 2 AWG AL | 175 | 10-#14 | 0.284 | 0.68 | 0.75 | 0.99 | 473 | 8 | 124 | 669 | 30 | 669 | 31 | 170 | 669 | 30 | 669 | 31 |
| Q7N010A | 1 SOLID AL | 175 | 13-#14 | 0.289 | 0.69 | 0.75 | 0.99 | 520 | 8 | 141 | 518 | 28 | 518 | 29 | 193 | 518 | 28 | 518 | 29 |
| Q7O010A | 1 AWG AL | 175 | 13-#14 | 0.324 | 0.72 | 0.79 | 1.03 | 541 | 9 | 143 | 523 | 27 | 523 | 28 | 194 | 523 | 27 | 523 | 28 |
| Q7P010A | 1/0 SOLID AL | 175 | 16-#14 | 0.325 | 0.72 | 0.79 | 1.03 | 592 | 9 | 160 | 415 | 27 | 415 | 27 | 219 | 415 | 27 | 415 | 27 |
| Q7Q010A | 1/0 AWG AL | 175 | 16-#14 | 0.364 | 0.76 | 0.83 | 1.07 | 616 | 9 | 162 | 420 | 26 | 420 | 26 | 220 | 420 | 26 | 420 | 26 |
| Q7R010A | 2/0 AWG AL | 175 | 13-#12 | 0.408 | 0.80 | 0.87 | 1.14 | 742 | 10 | 186 | 328 | 25 | 328 | 25 | 251 | 328 | 25 | 328 | 25 |
| Q7S010A | 3/0 AWG AL | 175 | 16-#12 | 0.458 | 0.85 | 0.92 | 1.19 | 856 | 10 | 212 | 263 | 24 | 263 | 24 | 284 | 263 | 24 | 263 | 24 |
| Q7T010A | 4/0 AWG AL | 175 | 13-#10 | 0.515 | 0.91 | 0.98 | 1.29 | 1046 | 11 | 243 | 207 | 23 | 207 | 23 | 323 | 207 | 23 | 207 | 23 |
| Q7U010A | 250 MCM AL | 175 | 16-#10 | 0.561 | 0.97 | 1.03 | 1.35 | 1214 | 11 | 270 | 171 | 22 | 171 | 22 | 358 | 171 | 22 | 171 | 22 |
| Q7V010A | 350 MCM AL | 175 | 16-#9 | 0.664 | 1.07 | 1.16 | 1.49 | 1536 | 12 | 321 | 130 | 21 | 130 | 20 | 420 | 130 | 21 | 130 | 20 |
| **15kV 100% Aluminum Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| Q7L000A | 2 SOLID AL | 175 | 6-#14 | 0.258 | 0.65 | 0.72 | 0.96 | 409 | 8 | 126 | 329 | 51 | 872 | 30 | 175 | 338 | 103 | 857 | 30 |
| Q7M000A | 2 AWG AL | 175 | 6-#14 | 0.284 | 0.68 | 0.75 | 0.99 | 427 | 8 | 126 | 335 | 51 | 879 | 31 | 175 | 344 | 102 | 865 | 31 |
| Q7N000A | 1 SOLID AL | 175 | 6-#14 | 0.289 | 0.69 | 0.75 | 0.99 | 439 | 8 | 143 | 261 | 49 | 805 | 29 | 199 | 270 | 100 | 791 | 29 |
| Q7O000A | 1 AWG AL | 175 | 6-#14 | 0.324 | 0.72 | 0.79 | 1.03 | 459 | 9 | 144 | 266 | 48 | 811 | 28 | 199 | 275 | 98 | 798 | 28 |
| Q7P000A | 1/0 SOLID AL | 175 | 6-#14 | 0.325 | 0.72 | 0.79 | 1.03 | 475 | 9 | 163 | 207 | 47 | 752 | 27 | 225 | 216 | 98 | 739 | 27 |
| Q7Q000A | 1/0 AWG AL | 175 | 6-#14 | 0.364 | 0.76 | 0.83 | 1.07 | 499 | 9 | 163 | 212 | 46 | 758 | 26 | 225 | 221 | 96 | 745 | 26 |
| Q7R000A | 2/0 AWG AL | 175 | 7-#14 | 0.408 | 0.80 | 0.87 | 1.11 | 558 | 9 | 186 | 168 | 44 | 637 | 25 | 255 | 178 | 93 | 627 | 25 |
| Q7S000A | 3/0 AWG AL | 175 | 9-#14 | 0.458 | 0.85 | 0.92 | 1.16 | 638 | 10 | 212 | 133 | 43 | 498 | 24 | 286 | 145 | 89 | 491 | 24 |
| Q7T000A | 4/0 AWG AL | 175 | 11-#14 | 0.515 | 0.91 | 0.98 | 1.22 | 730 | 10 | 241 | 106 | 41 | 405 | 23 | 320 | 120 | 86 | 400 | 23 |
| Q7U000A | 250 MCM AL | 175 | 13-#14 | 0.561 | 0.97 | 1.03 | 1.27 | 821 | 11 | 265 | 91 | 40 | 343 | 21 | 345 | 106 | 82 | 339 | 21 |
| Q7V000A | 350 MCM AL | 175 | 18-#14 | 0.664 | 1.07 | 1.16 | 1.39 | 1048 | 12 | 319 | 66 | 38 | 247 | 19 | 398 | 84 | 76 | 245 | 19 |
| Q7W000A | 500 MCM AL | 175 | 16-#12 | 0.794 | 1.20 | 1.29 | 1.56 | 1378 | 13 | 385 | 48 | 37 | 174 | 18 | 451 | 68 | 67 | 173 | 18 |
| Q7X000A | 750 MCM AL | 175 | 24-#12 | 0.974 | 1.39 | 1.47 | 1.81 | 1938 | 15 | 468 | 35 | 35 | 117 | 16 | 507 | 57 | 55 | 116 | 16 |
| Q7Y000A | 1000 MCM AL | 175 | 20-#10 | 1.124 | 1.54 | 1.65 | 2.03 | 2507 | 17 | 529 | 28 | 33 | 89 | 16 | 549 | 49 | 47 | 88 | 16 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.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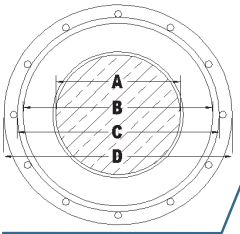
# 15kV TRXLPE URD

## 100% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (μΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (μΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (μΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (μΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (μΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **15kV 100% Copper Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| Q73010A | 2 SOLID CU | 175 | 16-#14 | 0.258 | 0.65 | 0.72 | 0.96 | 665 | 8 | 157 | 408 | 31 | 408 | 30 | 215 | 408 | 31 | 408 | 30 |
| Q74010A | 2 AWG CU | 175 | 16-#14 | 0.284 | 0.68 | 0.75 | 0.99 | 682 | 8 | 158 | 412 | 31 | 412 | 31 | 217 | 412 | 31 | 412 | 31 |
| Q75010A | 1 SOLID CU | 175 | 13-#12 | 0.289 | 0.69 | 0.75 | 1.02 | 807 | 9 | 181 | 318 | 29 | 318 | 29 | 245 | 318 | 29 | 318 | 29 |
| Q76010A | 1 AWG CU | 175 | 13-#12 | 0.324 | 0.72 | 0.79 | 1.06 | 830 | 9 | 182 | 322 | 28 | 322 | 28 | 246 | 322 | 28 | 322 | 28 |
| Q77010A | 1/0 SOLID CU | 175 | 16-#12 | 0.325 | 0.72 | 0.79 | 1.06 | 948 | 9 | 205 | 256 | 28 | 256 | 28 | 277 | 256 | 28 | 256 | 28 |
| Q78010A | 1/0 AWG CU | 175 | 16-#12 | 0.364 | 0.76 | 0.83 | 1.10 | 973 | 9 | 207 | 258 | 27 | 258 | 27 | 279 | 258 | 27 | 258 | 27 |
| Q79010A | 2/0 AWG CU | 175 | 13-#10 | 0.408 | 0.80 | 0.87 | 1.19 | 1196 | 10 | 237 | 203 | 26 | 203 | 26 | 317 | 203 | 26 | 203 | 26 |
| Q7A010A | 3/0 AWG CU | 175 | 16-#10 | 0.458 | 0.85 | 0.92 | 1.24 | 1417 | 10 | 270 | 163 | 25 | 163 | 24 | 359 | 163 | 25 | 163 | 24 |
| Q7B010A | 4/0 AWG CU | 175 | 16-#9 | 0.515 | 0.91 | 0.98 | 1.32 | 1724 | 11 | 307 | 130 | 23 | 130 | 23 | 407 | 130 | 23 | 130 | 23 |
| **15kV 100% Copper Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| Q73000A | 2 SOLID CU | 175 | 6-#14 | 0.258 | 0.65 | 0.72 | 0.96 | 548 | 8 | 162 | 200 | 51 | 743 | 30 | 223 | 209 | 103 | 728 | 30 |
| Q74000A | 2 AWG CU | 175 | 6-#14 | 0.284 | 0.68 | 0.75 | 0.99 | 566 | 8 | 162 | 203 | 51 | 747 | 31 | 224 | 213 | 102 | 733 | 31 |
| Q75000A | 1 SOLID CU | 175 | 7-#14 | 0.289 | 0.69 | 0.75 | 0.99 | 625 | 8 | 184 | 159 | 49 | 625 | 29 | 252 | 169 | 100 | 613 | 29 |
| Q76000A | 1 AWG CU | 175 | 7-#14 | 0.324 | 0.72 | 0.79 | 1.03 | 647 | 9 | 184 | 162 | 48 | 629 | 28 | 252 | 173 | 98 | 618 | 28 |
| Q77000A | 1/0 SOLID CU | 175 | 9-#14 | 0.325 | 0.72 | 0.79 | 1.03 | 733 | 9 | 209 | 126 | 47 | 489 | 27 | 283 | 139 | 96 | 481 | 27 |
| Q78000A | 1/0 AWG CU | 175 | 9-#14 | 0.364 | 0.76 | 0.83 | 1.07 | 757 | 9 | 210 | 129 | 46 | 492 | 26 | 284 | 141 | 94 | 484 | 26 |
| Q79000A | 2/0 AWG CU | 175 | 11-#14 | 0.408 | 0.80 | 0.87 | 1.11 | 886 | 9 | 238 | 103 | 44 | 400 | 25 | 317 | 117 | 91 | 395 | 25 |
| Q7A000A | 3/0 AWG CU | 175 | 14-#14 | 0.458 | 0.85 | 0.92 | 1.16 | 1051 | 10 | 271 | 82 | 43 | 316 | 23 | 351 | 99 | 86 | 312 | 23 |
| Q7B000A | 4/0 AWG CU | 175 | 18-#14 | 0.515 | 0.91 | 0.98 | 1.22 | 1259 | 10 | 307 | 66 | 41 | 247 | 22 | 385 | 86 | 81 | 245 | 22 |
| Q7C000A | 250 MCM CU | 175 | 21-#14 | 0.561 | 0.97 | 1.03 | 1.27 | 1445 | 11 | 336 | 57 | 40 | 211 | 21 | 410 | 78 | 76 | 210 | 21 |
| Q7D000A | 350 MCM CU | 175 | 18-#12 | 0.664 | 1.07 | 1.16 | 1.43 | 1945 | 12 | 400 | 42 | 38 | 154 | 20 | 457 | 66 | 67 | 153 | 20 |
| Q7E000A | 500 MCM CU | 175 | 17-#10 | 0.794 | 1.20 | 1.29 | 1.60 | 2685 | 13 | 471 | 32 | 36 | 104 | 18 | 501 | 57 | 55 | 104 | 18 |
| Q7F000A | 750 MCM CU | 175 | 20-#9 | 0.974 | 1.39 | 1.47 | 1.87 | 3912 | 15 | 548 | 26 | 34 | 71 | 17 | 559 | 47 | 42 | 71 | 17 |
| Q7G000A | 1000 MCM CU | 175 | 21-#8 | 1.124 | 1.54 | 1.65 | 2.08 | 5107 | 17 | 596 | 23 | 32 | 54 | 16 | 669 | 41 | 35 | 56 | 16 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.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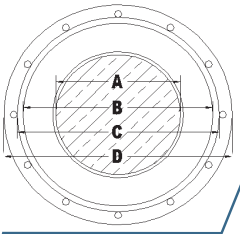
# 15kV TRXLPE URD

## 133% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) | Insulation Diameter (in) | Insulation Shield Diameter (in) | Jacket Diameter (in) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | †Ampacity (Amps) | +/- Sequence Impedance Resistance (μΩ/ft) | +/- Sequence Impedance Reactance (μΩ/ft) | Zero Sequence Impedance Resistance (μΩ/ft)†† | Zero Sequence Impedance Reactance (μΩ/ft)†† | †Ampacity (Amps) | +/- Sequence Impedance Resistance (μΩ/ft) | +/- Sequence Impedance Reactance (μΩ/ft) | Zero Sequence Impedance Resistance (μΩ/ft)†† | Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | (A) | (B) | (C) | (D) | | | 90°C In Duct | | | | | 90°C Direct Buried | | | | |
| 15kV 133% Aluminum Single Phase - Full Neutral | | | | | | | | | | | | | | | | | | | |
| Q8L010A | 2 SOLID AL | 220 | 10-#14 | 0.258 | 0.74 | 0.81 | 1.05 | 513 | 9 | 123 | 663 | 29 | 663 | 30 | 169 | 663 | 29 | 663 | 30 |
| Q8M010A | 2 AWG AL | 220 | 10-#14 | 0.284 | 0.77 | 0.84 | 1.08 | 533 | 9 | 124 | 669 | 30 | 669 | 31 | 170 | 669 | 30 | 669 | 31 |
| Q8N010A | 1 SOLID AL | 220 | 13-#14 | 0.289 | 0.78 | 0.84 | 1.08 | 580 | 9 | 141 | 518 | 28 | 518 | 29 | 193 | 518 | 28 | 518 | 29 |
| Q8O010A | 1 AWG AL | 220 | 13-#14 | 0.324 | 0.81 | 0.88 | 1.12 | 603 | 9 | 143 | 523 | 27 | 523 | 28 | 194 | 523 | 27 | 523 | 28 |
| Q8P010A | 1/0 SOLID AL | 220 | 16-#14 | 0.325 | 0.81 | 0.88 | 1.12 | 654 | 9 | 160 | 415 | 27 | 415 | 27 | 219 | 415 | 27 | 415 | 27 |
| Q8Q010A | 1/0 AWG AL | 220 | 16-#14 | 0.364 | 0.85 | 0.92 | 1.16 | 680 | 10 | 162 | 420 | 26 | 420 | 26 | 220 | 420 | 26 | 420 | 26 |
| Q8R010A | 2/0 AWG AL | 220 | 13-#12 | 0.408 | 0.89 | 0.96 | 1.23 | 811 | 10 | 186 | 328 | 25 | 328 | 25 | 251 | 328 | 25 | 328 | 25 |
| Q8S010A | 3/0 AWG AL | 220 | 16-#12 | 0.458 | 0.94 | 1.01 | 1.28 | 927 | 11 | 212 | 263 | 24 | 263 | 24 | 284 | 263 | 24 | 263 | 24 |
| Q8T010A | 4/0 AWG AL | 220 | 13-#10 | 0.515 | 1.00 | 1.07 | 1.38 | 1122 | 12 | 243 | 207 | 23 | 207 | 23 | 323 | 207 | 23 | 207 | 23 |
| Q8U010A | 250 MCM AL | 220 | 16-#10 | 0.561 | 1.06 | 1.14 | 1.46 | 1315 | 12 | 270 | 171 | 22 | 171 | 22 | 358 | 171 | 22 | 171 | 22 |
| Q8V010A | 350 MCM AL | 220 | 16-#9 | 0.664 | 1.16 | 1.25 | 1.58 | 1624 | 13 | 321 | 130 | 21 | 130 | 20 | 420 | 130 | 21 | 130 | 20 |
| 15kV 133% Aluminum Three Phase - One-Third Neutral | | | | | | | | | | | | | | | | | | | |
| Q8L000A | 2 SOLID AL | 220 | 6-#14 | 0.258 | 0.74 | 0.81 | 1.05 | 466 | 9 | 126 | 329 | 51 | 872 | 30 | 175 | 338 | 103 | 857 | 30 |
| Q8M000A | 2 AWG AL | 220 | 6-#14 | 0.284 | 0.77 | 0.84 | 1.08 | 486 | 9 | 126 | 335 | 51 | 879 | 31 | 175 | 344 | 102 | 865 | 31 |
| Q8N000A | 1 SOLID AL | 220 | 6-#14 | 0.289 | 0.78 | 0.84 | 1.08 | 498 | 9 | 143 | 261 | 49 | 805 | 29 | 199 | 270 | 100 | 791 | 29 |
| Q8O000A | 1 AWG AL | 220 | 6-#14 | 0.324 | 0.81 | 0.88 | 1.12 | 521 | 9 | 144 | 266 | 48 | 811 | 28 | 199 | 275 | 98 | 798 | 28 |
| Q8P000A | 1/0 SOLID AL | 220 | 6-#14 | 0.325 | 0.81 | 0.88 | 1.12 | 537 | 9 | 163 | 207 | 47 | 752 | 27 | 225 | 216 | 98 | 739 | 27 |
| Q8Q000A | 1/0 AWG AL | 220 | 6-#14 | 0.364 | 0.85 | 0.92 | 1.16 | 563 | 10 | 163 | 212 | 46 | 758 | 26 | 225 | 221 | 96 | 745 | 26 |
| Q8R000A | 2/0 AWG AL | 220 | 7-#14 | 0.408 | 0.89 | 0.96 | 1.20 | 624 | 10 | 186 | 168 | 44 | 637 | 25 | 255 | 178 | 93 | 627 | 25 |
| Q8S000A | 3/0 AWG AL | 220 | 9-#14 | 0.458 | 0.94 | 1.01 | 1.25 | 707 | 11 | 212 | 133 | 43 | 498 | 24 | 286 | 145 | 89 | 491 | 24 |
| Q8T000A | 4/0 AWG AL | 220 | 11-#14 | 0.515 | 1.00 | 1.07 | 1.31 | 803 | 11 | 241 | 106 | 41 | 405 | 23 | 320 | 120 | 86 | 400 | 23 |
| Q8U000A | 250 MCM AL | 220 | 13-#14 | 0.561 | 1.06 | 1.14 | 1.38 | 917 | 12 | 265 | 91 | 40 | 343 | 21 | 345 | 106 | 82 | 339 | 21 |
| Q8V000A | 350 MCM AL | 220 | 18-#14 | 0.664 | 1.16 | 1.25 | 1.48 | 1130 | 12 | 319 | 66 | 38 | 247 | 19 | 398 | 84 | 76 | 245 | 19 |
| Q8W000A | 500 MCM AL | 220 | 16-#12 | 0.794 | 1.29 | 1.38 | 1.71 | 1534 | 14 | 385 | 48 | 37 | 174 | 18 | 451 | 68 | 67 | 173 | 18 |
| Q8X000A | 750 MCM AL | 220 | 24-#12 | 0.974 | 1.48 | 1.56 | 1.90 | 2043 | 16 | 468 | 35 | 35 | 117 | 16 | 507 | 57 | 55 | 116 | 16 |
| Q8Y000A | 1000 MCM AL | 220 | 20-#10 | 1.124 | 1.63 | 1.74 | 2.12 | 2626 | 17 | 529 | 28 | 33 | 89 | 16 | 549 | 49 | 47 | 88 | 16 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.

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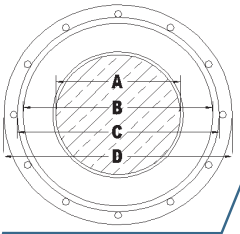
# 15kV TRXLPE URD

## 133% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (µΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (µΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (µΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (µΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (µΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (µΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (µΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (µΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **15kV 133% Copper Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| Q83010A | 2 SOLID CU | 220 | 16-#14 | 0.258 | 0.74 | 0.81 | 1.05 | 723 | 9 | 157 | 408 | 31 | 408 | 30 | 215 | 408 | 31 | 408 | 30 |
| Q84010A | 2 AWG CU | 220 | 16-#14 | 0.284 | 0.77 | 0.84 | 1.08 | 742 | 9 | 158 | 412 | 31 | 412 | 31 | 217 | 412 | 31 | 412 | 31 |
| Q85010A | 1 SOLID CU | 220 | 13-#12 | 0.289 | 0.78 | 0.84 | 1.11 | 868 | 9 | 181 | 318 | 29 | 318 | 29 | 245 | 318 | 29 | 318 | 29 |
| Q86010A | 1 AWG CU | 220 | 13-#12 | 0.324 | 0.81 | 0.88 | 1.15 | 893 | 10 | 182 | 322 | 28 | 322 | 28 | 246 | 322 | 28 | 322 | 28 |
| Q87010A | 1/0 SOLID CU | 220 | 16-#12 | 0.325 | 0.81 | 0.88 | 1.15 | 1011 | 10 | 205 | 256 | 28 | 256 | 28 | 277 | 256 | 28 | 256 | 28 |
| Q88010A | 1/0 AWG CU | 220 | 16-#12 | 0.364 | 0.85 | 0.92 | 1.19 | 1039 | 10 | 207 | 258 | 27 | 258 | 27 | 279 | 258 | 27 | 258 | 27 |
| Q89010A | 2/0 AWG CU | 220 | 13-#10 | 0.408 | 0.89 | 0.96 | 1.28 | 1266 | 11 | 237 | 203 | 26 | 203 | 26 | 317 | 203 | 26 | 203 | 26 |
| Q8A010A | 3/0 AWG CU | 220 | 16-#10 | 0.458 | 0.94 | 1.01 | 1.33 | 1490 | 11 | 270 | 163 | 25 | 163 | 24 | 359 | 163 | 25 | 163 | 24 |
| Q8B010A | 4/0 AWG CU | 220 | 16-#9 | 0.515 | 1.00 | 1.07 | 1.41 | 1803 | 12 | 307 | 130 | 23 | 130 | 23 | 407 | 130 | 23 | 130 | 23 |
| **15kV 133% Copper Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| Q83000A | 2 SOLID CU | 220 | 6-#14 | 0.258 | 0.74 | 0.81 | 1.05 | 606 | 9 | 162 | 200 | 51 | 743 | 30 | 223 | 209 | 103 | 728 | 30 |
| Q84000A | 2 AWG CU | 220 | 6-#14 | 0.284 | 0.77 | 0.84 | 1.08 | 625 | 9 | 162 | 203 | 51 | 747 | 31 | 224 | 213 | 102 | 733 | 31 |
| Q85000A | 1 SOLID CU | 220 | 7-#14 | 0.289 | 0.78 | 0.84 | 1.08 | 685 | 9 | 184 | 159 | 49 | 625 | 29 | 252 | 169 | 100 | 613 | 29 |
| Q86000A | 1 AWG CU | 220 | 7-#14 | 0.324 | 0.81 | 0.88 | 1.12 | 709 | 9 | 184 | 162 | 48 | 629 | 28 | 252 | 173 | 98 | 618 | 28 |
| Q87000A | 1/0 SOLID CU | 220 | 9-#14 | 0.325 | 0.81 | 0.88 | 1.12 | 794 | 9 | 209 | 126 | 47 | 489 | 27 | 283 | 139 | 96 | 481 | 27 |
| Q88000A | 1/0 AWG CU | 220 | 9-#14 | 0.364 | 0.85 | 0.92 | 1.16 | 821 | 10 | 210 | 129 | 46 | 492 | 26 | 284 | 141 | 94 | 484 | 26 |
| Q89000A | 2/0 AWG CU | 220 | 11-#14 | 0.408 | 0.89 | 0.96 | 1.20 | 952 | 10 | 238 | 103 | 44 | 400 | 25 | 317 | 117 | 91 | 395 | 25 |
| Q8A000A | 3/0 AWG CU | 220 | 14-#14 | 0.458 | 0.94 | 1.01 | 1.25 | 1120 | 11 | 271 | 82 | 43 | 316 | 23 | 351 | 99 | 86 | 312 | 23 |
| Q8B000A | 4/0 AWG CU | 220 | 18-#14 | 0.515 | 1.00 | 1.07 | 1.31 | 1331 | 11 | 307 | 66 | 41 | 247 | 22 | 385 | 86 | 81 | 245 | 22 |
| Q8C000A | 250 MCM CU | 220 | 21-#14 | 0.561 | 1.06 | 1.14 | 1.38 | 1541 | 12 | 336 | 57 | 40 | 211 | 21 | 410 | 78 | 76 | 210 | 21 |
| Q8D000A | 350 MCM CU | 220 | 18-#12 | 0.664 | 1.16 | 1.25 | 1.52 | 2029 | 13 | 400 | 42 | 38 | 154 | 20 | 457 | 66 | 67 | 153 | 20 |
| Q8E000A | 500 MCM CU | 220 | 17-#10 | 0.794 | 1.29 | 1.38 | 1.75 | 2845 | 14 | 471 | 32 | 36 | 104 | 18 | 501 | 57 | 55 | 104 | 18 |
| Q8F000A | 750 MCM CU | 220 | 20-#9 | 0.974 | 1.48 | 1.56 | 1.96 | 4022 | 16 | 548 | 26 | 34 | 71 | 17 | 559 | 47 | 42 | 71 | 17 |
| Q8G000A | 1000 MCM CU | 220 | 21-#8 | 1.124 | 1.63 | 1.74 | 2.17 | 5229 | 18 | 596 | 23 | 32 | 54 | 16 | 669 | 41 | 35 | 56 | 16 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.

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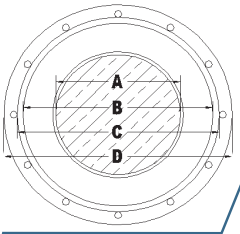
# 25kV TRXLPE URD

## 100% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (μΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (μΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (μΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (μΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (μΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **25kV 100% Aluminum Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| Q9N010A | 1 SOLID AL | 260 | 13-#14 | 0.289 | 0.86 | 0.92 | 1.16 | 637 | 10 | 145 | 518 | 33 | 518 | 33 | 192 | 518 | 33 | 518 | 33 |
| Q9O010A | 1 AWG AL | 260 | 13-#14 | 0.324 | 0.89 | 0.96 | 1.20 | 662 | 10 | 146 | 523 | 31 | 523 | 32 | 194 | 523 | 31 | 523 | 32 |
| Q9P010A | 1/0 SOLID AL | 260 | 16-#14 | 0.325 | 0.89 | 0.96 | 1.20 | 713 | 10 | 165 | 415 | 31 | 415 | 31 | 218 | 415 | 31 | 415 | 31 |
| Q9Q010A | 1/0 AWG AL | 260 | 16-#14 | 0.364 | 0.93 | 1.00 | 1.24 | 741 | 10 | 166 | 420 | 30 | 420 | 30 | 219 | 420 | 30 | 420 | 30 |
| Q9R010A | 2/0 AWG AL | 260 | 13-#12 | 0.408 | 0.97 | 1.04 | 1.31 | 875 | 11 | 190 | 328 | 29 | 328 | 29 | 250 | 328 | 29 | 328 | 29 |
| Q9S010A | 3/0 AWG AL | 260 | 16-#12 | 0.458 | 1.02 | 1.11 | 1.38 | 1015 | 12 | 217 | 263 | 28 | 263 | 28 | 283 | 263 | 28 | 263 | 28 |
| Q9T010A | 4/0 AWG AL | 260 | 13-#10 | 0.515 | 1.08 | 1.17 | 1.48 | 1217 | 12 | 248 | 207 | 26 | 207 | 27 | 322 | 207 | 26 | 207 | 27 |
| Q9U010A | 250 MCM AL | 260 | 16-#10 | 0.561 | 1.14 | 1.22 | 1.54 | 1392 | 13 | 276 | 171 | 25 | 171 | 25 | 356 | 171 | 25 | 171 | 25 |
| Q9V010A | 350 MCM AL | 260 | 16-#9 | 0.664 | 1.24 | 1.33 | 1.72 | 1772 | 14 | 326 | 130 | 23 | 130 | 23 | 416 | 130 | 23 | 130 | 23 |
| **25kV 100% Aluminum Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| Q9N000A | 1 SOLID AL | 260 | 6-#14 | 0.289 | 0.86 | 0.92 | 1.16 | 555 | 10 | 146 | 261 | 53 | 801 | 33 | 196 | 269 | 101 | 786 | 33 |
| Q9O000A | 1 AWG AL | 260 | 6-#14 | 0.324 | 0.89 | 0.96 | 1.20 | 580 | 10 | 146 | 266 | 52 | 807 | 32 | 196 | 274 | 99 | 792 | 32 |
| Q9P000A | 1/0 SOLID AL | 260 | 6-#14 | 0.325 | 0.89 | 0.96 | 1.20 | 596 | 10 | 166 | 207 | 51 | 748 | 31 | 222 | 215 | 98 | 734 | 31 |
| Q9Q000A | 1/0 AWG AL | 260 | 6-#14 | 0.364 | 0.93 | 1.00 | 1.24 | 624 | 10 | 166 | 212 | 50 | 754 | 30 | 222 | 220 | 96 | 740 | 30 |
| Q9R000A | 2/0 AWG AL | 260 | 7-#14 | 0.408 | 0.97 | 1.04 | 1.28 | 687 | 11 | 189 | 168 | 48 | 634 | 29 | 251 | 177 | 93 | 622 | 29 |
| Q9S000A | 3/0 AWG AL | 260 | 9-#14 | 0.458 | 1.02 | 1.11 | 1.35 | 793 | 11 | 216 | 133 | 46 | 495 | 27 | 283 | 144 | 90 | 487 | 27 |
| Q9T000A | 4/0 AWG AL | 260 | 11-#14 | 0.515 | 1.08 | 1.17 | 1.41 | 892 | 12 | 245 | 106 | 45 | 403 | 26 | 317 | 119 | 86 | 397 | 26 |
| Q9U000A | 250 MCM AL | 260 | 13-#14 | 0.561 | 1.14 | 1.22 | 1.46 | 990 | 12 | 269 | 90 | 43 | 341 | 25 | 343 | 104 | 83 | 337 | 25 |
| Q9V000A | 350 MCM AL | 260 | 18-#14 | 0.664 | 1.24 | 1.33 | 1.56 | 1208 | 13 | 322 | 66 | 41 | 246 | 23 | 397 | 82 | 76 | 244 | 23 |
| Q9W000A | 500 MCM AL | 260 | 16-#12 | 0.794 | 1.37 | 1.46 | 1.79 | 1623 | 15 | 389 | 48 | 40 | 173 | 21 | 451 | 67 | 68 | 172 | 21 |
| Q9X000A | 750 MCM AL | 260 | 24-#12 | 0.974 | 1.56 | 1.67 | 2.01 | 2187 | 17 | 473 | 34 | 37 | 116 | 19 | 513 | 55 | 57 | 116 | 19 |
| Q9Y000A | 1000 MCM AL | 260 | 20-#10 | 1.124 | 1.71 | 1.82 | 2.20 | 2736 | 18 | 533 | 28 | 35 | 88 | 18 | 555 | 48 | 49 | 88 | 18 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.

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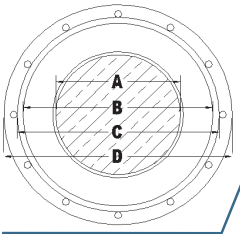
# 25kV TRXLPE URD

## 100% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (ft) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (μΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (μΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (μΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (μΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (μΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **25kV 100% Copper Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| Q95010A | 1 SOLID CU | 260 | 13-#12 | 0.289 | 0.86 | 0.92 | 1.19 | 927 | 10 | 186 | 318 | 33 | 318 | 34 | 245 | 318 | 33 | 318 | 34 |
| Q96010A | 1 AWG CU | 260 | 13-#12 | 0.324 | 0.89 | 0.96 | 1.23 | 954 | 10 | 187 | 322 | 32 | 322 | 32 | 246 | 322 | 32 | 322 | 32 |
| Q97010A | 1/0 SOLID CU | 260 | 16-#12 | 0.325 | 0.89 | 0.96 | 1.23 | 1072 | 10 | 210 | 256 | 32 | 256 | 32 | 277 | 256 | 32 | 256 | 32 |
| Q98010A | 1/0 AWG CU | 260 | 16-#12 | 0.364 | 0.93 | 1.00 | 1.27 | 1101 | 11 | 212 | 258 | 31 | 258 | 31 | 279 | 258 | 31 | 258 | 31 |
| Q99010A | 2/0 AWG CU | 260 | 13-#10 | 0.408 | 0.97 | 1.04 | 1.36 | 1333 | 11 | 243 | 203 | 29 | 203 | 29 | 317 | 203 | 29 | 203 | 29 |
| Q9A010A | 3/0 AWG CU | 260 | 16-#10 | 0.458 | 1.02 | 1.11 | 1.43 | 1581 | 12 | 276 | 163 | 28 | 163 | 28 | 359 | 163 | 28 | 163 | 28 |
| Q9B010A | 4/0 AWG CU | 260 | 16-#9 | 0.515 | 1.08 | 1.17 | 1.51 | 1899 | 13 | 314 | 130 | 27 | 130 | 27 | 406 | 130 | 27 | 130 | 27 |
| **25kV 100% Copper Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| Q95000A | 1 SOLID CU | 260 | 7-#14 | 0.289 | 0.86 | 0.92 | 1.16 | 742 | 10 | 187 | 158 | 53 | 622 | 33 | 249 | 168 | 100 | 609 | 33 |
| Q96000A | 1 AWG CU | 260 | 7-#14 | 0.324 | 0.89 | 0.96 | 1.20 | 768 | 10 | 187 | 162 | 52 | 626 | 32 | 249 | 172 | 98 | 614 | 32 |
| Q97000A | 1/0 SOLID CU | 260 | 9-#14 | 0.325 | 0.89 | 0.96 | 1.20 | 853 | 10 | 213 | 126 | 51 | 487 | 31 | 280 | 138 | 97 | 478 | 31 |
| Q98000A | 1/0 AWG CU | 260 | 9-#14 | 0.364 | 0.93 | 1.00 | 1.24 | 882 | 10 | 213 | 129 | 50 | 490 | 30 | 281 | 140 | 95 | 481 | 30 |
| Q99000A | 2/0 AWG CU | 260 | 11-#14 | 0.408 | 0.97 | 1.04 | 1.28 | 1015 | 11 | 242 | 103 | 48 | 398 | 29 | 314 | 116 | 91 | 392 | 29 |
| Q9A000A | 3/0 AWG CU | 260 | 14-#14 | 0.458 | 1.02 | 1.11 | 1.35 | 1206 | 11 | 275 | 82 | 46 | 314 | 27 | 349 | 98 | 87 | 310 | 27 |
| Q9B000A | 4/0 AWG CU | 260 | 18-#14 | 0.515 | 1.08 | 1.17 | 1.41 | 1421 | 12 | 311 | 66 | 45 | 246 | 26 | 384 | 84 | 82 | 243 | 26 |
| Q9C000A | 250 MCM CU | 260 | 21-#14 | 0.561 | 1.14 | 1.22 | 1.46 | 1614 | 12 | 341 | 56 | 43 | 210 | 25 | 410 | 76 | 78 | 208 | 25 |
| Q9D000A | 350 MCM CU | 260 | 18-#12 | 0.664 | 1.24 | 1.33 | 1.60 | 2109 | 13 | 405 | 42 | 41 | 153 | 23 | 460 | 64 | 69 | 152 | 23 |
| Q9E000A | 500 MCM CU | 260 | 17-#10 | 0.794 | 1.37 | 1.46 | 1.83 | 2936 | 15 | 475 | 32 | 39 | 104 | 21 | 504 | 55 | 57 | 104 | 21 |
| Q9F000A | 750 MCM CU | 260 | 20-#9 | 0.974 | 1.56 | 1.67 | 2.07 | 4170 | 17 | 556 | 25 | 36 | 71 | 20 | 567 | 45 | 45 | 71 | 20 |
| Q9G000A | 1000 MCM CU | 260 | 21-#8 | 1.124 | 1.71 | 1.82 | 2.25 | 5342 | 19 | 603 | 22 | 34 | 54 | 18 | 620 | 39 | 37 | 53 | 18 |

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

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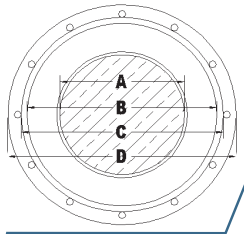
# 25kV TRXLPE URD

## 133% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (μΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (μΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (μΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (μΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (μΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **25kV 133% Aluminum Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| QAN010A | 1 SOLID AL | 320 | 13-#14 | 0.289 | 0.98 | 1.05 | 1.29 | 734 | 11 | 145 | 518 | 33 | 518 | 33 | 192 | 518 | 33 | 518 | 33 |
| QAO010A | 1 AWG AL | 320 | 13-#14 | 0.324 | 1.01 | 1.08 | 1.32 | 761 | 11 | 146 | 523 | 31 | 523 | 32 | 194 | 523 | 31 | 523 | 32 |
| QAP010A | 1/0 SOLID AL | 320 | 16-#14 | 0.325 | 1.02 | 1.08 | 1.32 | 812 | 11 | 165 | 415 | 31 | 415 | 31 | 218 | 415 | 31 | 415 | 31 |
| QAQ010A | 1/0 AWG AL | 320 | 16-#14 | 0.364 | 1.05 | 1.14 | 1.38 | 864 | 12 | 166 | 420 | 30 | 420 | 30 | 219 | 420 | 30 | 420 | 30 |
| QAR010A | 2/0 AWG AL | 320 | 13-#12 | 0.408 | 1.10 | 1.19 | 1.46 | 1006 | 12 | 190 | 328 | 29 | 328 | 29 | 250 | 328 | 29 | 328 | 29 |
| QAS010A | 3/0 AWG AL | 320 | 16-#12 | 0.458 | 1.15 | 1.24 | 1.51 | 1129 | 13 | 217 | 263 | 28 | 263 | 28 | 283 | 263 | 28 | 263 | 28 |
| QAT010A | 4/0 AWG AL | 320 | 13-#10 | 0.515 | 1.21 | 1.29 | 1.61 | 1339 | 13 | 248 | 207 | 26 | 207 | 27 | 322 | 207 | 26 | 207 | 27 |
| QAU010A | 250 MCM AL | 320 | 16-#10 | 0.561 | 1.26 | 1.35 | 1.72 | 1583 | 14 | 276 | 171 | 25 | 171 | 25 | 356 | 171 | 25 | 171 | 25 |
| QAV010A | 350 MCM AL | 320 | 16-#9 | 0.664 | 1.36 | 1.45 | 1.85 | 1913 | 15 | 326 | 130 | 23 | 130 | 23 | 416 | 130 | 23 | 130 | 23 |
| **25kV 133% Aluminum Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| QAN000A | 1 SOLID AL | 320 | 6-#14 | 0.289 | 0.98 | 1.05 | 1.29 | 652 | 11 | 146 | 261 | 53 | 801 | 33 | 196 | 269 | 101 | 786 | 33 |
| QAO000A | 1 AWG AL | 320 | 6-#14 | 0.324 | 1.01 | 1.08 | 1.32 | 679 | 11 | 146 | 266 | 52 | 807 | 32 | 196 | 274 | 99 | 792 | 32 |
| QAP000A | 1/0 SOLID AL | 320 | 6-#14 | 0.325 | 1.02 | 1.08 | 1.32 | 695 | 11 | 166 | 207 | 51 | 748 | 31 | 222 | 215 | 98 | 734 | 31 |
| QAQ000A | 1/0 AWG AL | 320 | 6-#14 | 0.364 | 1.05 | 1.14 | 1.38 | 747 | 12 | 166 | 212 | 50 | 754 | 30 | 222 | 220 | 96 | 740 | 30 |
| QAR000A | 2/0 AWG AL | 320 | 7-#14 | 0.408 | 1.10 | 1.19 | 1.42 | 814 | 12 | 189 | 168 | 48 | 634 | 29 | 251 | 177 | 93 | 622 | 29 |
| QAS000A | 3/0 AWG AL | 320 | 9-#14 | 0.458 | 1.15 | 1.24 | 1.47 | 905 | 12 | 216 | 133 | 46 | 495 | 27 | 283 | 144 | 90 | 487 | 27 |
| QAT000A | 4/0 AWG AL | 320 | 11-#14 | 0.515 | 1.21 | 1.29 | 1.53 | 1008 | 13 | 245 | 106 | 45 | 403 | 26 | 317 | 119 | 86 | 397 | 26 |
| QAU000A | 250 MCM AL | 320 | 13-#14 | 0.561 | 1.26 | 1.35 | 1.59 | 1110 | 13 | 269 | 90 | 43 | 341 | 25 | 343 | 104 | 83 | 337 | 25 |
| QAV000A | 350 MCM AL | 320 | 18-#14 | 0.664 | 1.36 | 1.45 | 1.75 | 1401 | 14 | 322 | 66 | 41 | 246 | 23 | 397 | 82 | 76 | 244 | 23 |
| QAW000A | 500 MCM AL | 320 | 16-#12 | 0.794 | 1.49 | 1.58 | 1.91 | 1768 | 16 | 389 | 48 | 40 | 173 | 21 | 451 | 67 | 68 | 172 | 21 |
| QAX000A | 750 MCM AL | 320 | 24-#12 | 0.974 | 1.68 | 1.80 | 2.13 | 2350 | 18 | 473 | 34 | 37 | 116 | 19 | 513 | 55 | 57 | 116 | 19 |
| QAY000A | 1000 MCM AL | 320 | 20-#10 | 1.124 | 1.83 | 1.95 | 2.32 | 2914 | 19 | 533 | 28 | 35 | 88 | 18 | 555 | 48 | 49 | 88 | 18 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.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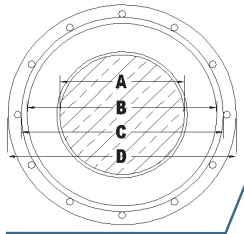
# 25kV TRXLPE URD

## 133% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (μΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (μΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (μΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (μΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (μΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **25kV 133% Copper Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| QA5010A | 1 SOLID CU | 320 | 13-#12 | 0.289 | 0.98 | 1.05 | 1.32 | 1026 | 11 | 186 | 318 | 33 | 318 | 34 | 245 | 318 | 33 | 318 | 34 |
| QA6010A | 1 AWG CU | 320 | 13-#12 | 0.324 | 1.01 | 1.08 | 1.35 | 1056 | 11 | 187 | 322 | 32 | 322 | 32 | 246 | 322 | 32 | 322 | 32 |
| QA7010A | 1/0 SOLID CU | 320 | 16-#12 | 0.325 | 1.02 | 1.08 | 1.35 | 1174 | 11 | 210 | 256 | 32 | 256 | 32 | 277 | 256 | 32 | 256 | 32 |
| QA8010A | 1/0 AWG CU | 320 | 16-#12 | 0.364 | 1.05 | 1.14 | 1.41 | 1228 | 12 | 212 | 258 | 31 | 258 | 31 | 279 | 258 | 31 | 258 | 31 |
| QA9010A | 2/0 AWG CU | 320 | 13-#10 | 0.408 | 1.10 | 1.19 | 1.50 | 1468 | 12 | 243 | 203 | 29 | 203 | 29 | 317 | 203 | 29 | 203 | 29 |
| QAA010A | 3/0 AWG CU | 320 | 16-#10 | 0.458 | 1.15 | 1.24 | 1.55 | 1699 | 13 | 276 | 163 | 28 | 163 | 28 | 359 | 163 | 28 | 163 | 28 |
| QAB010A | 4/0 AWG CU | 320 | 16-#9 | 0.515 | 1.21 | 1.29 | 1.63 | 2023 | 14 | 314 | 130 | 27 | 130 | 27 | 406 | 130 | 27 | 130 | 27 |
| **25kV 133% Copper Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| QA5000A | 1 SOLID CU | 320 | 7-#14 | 0.289 | 0.98 | 1.05 | 1.29 | 838 | 11 | 187 | 158 | 53 | 622 | 33 | 249 | 168 | 100 | 609 | 33 |
| QA6000A | 1 AWG CU | 320 | 7-#14 | 0.324 | 1.01 | 1.08 | 1.32 | 867 | 11 | 187 | 162 | 52 | 626 | 32 | 249 | 172 | 98 | 614 | 32 |
| QA7000A | 1/0 SOLID CU | 320 | 9-#14 | 0.325 | 1.02 | 1.08 | 1.32 | 952 | 11 | 213 | 126 | 51 | 487 | 31 | 280 | 138 | 97 | 478 | 31 |
| QA8000A | 1/0 AWG CU | 320 | 9-#14 | 0.364 | 1.05 | 1.14 | 1.38 | 1005 | 12 | 213 | 129 | 50 | 490 | 30 | 281 | 140 | 95 | 481 | 3 |
| QA9000A | 2/0 AWG CU | 320 | 11-#14 | 0.408 | 1.10 | 1.19 | 1.42 | 1142 | 12 | 242 | 103 | 48 | 398 | 29 | 314 | 116 | 91 | 392 | 29 |
| QAA000A | 3/0 AWG CU | 320 | 14-#14 | 0.458 | 1.15 | 1.24 | 1.47 | 1317 | 12 | 275 | 82 | 46 | 314 | 27 | 349 | 98 | 87 | 310 | 27 |
| QAB000A | 4/0 AWG CU | 320 | 18-#14 | 0.515 | 1.21 | 1.29 | 1.53 | 1537 | 13 | 311 | 66 | 45 | 246 | 26 | 384 | 84 | 82 | 243 | 26 |
| QAC000A | 250 MCM CU | 320 | 21-#14 | 0.561 | 1.26 | 1.35 | 1.59 | 1734 | 13 | 341 | 56 | 43 | 210 | 25 | 410 | 76 | 78 | 208 | 25 |
| QAD000A | 350 MCM CU | 320 | 18-#12 | 0.664 | 1.36 | 1.45 | 1.78 | 2306 | 15 | 405 | 42 | 41 | 153 | 23 | 460 | 64 | 69 | 152 | 23 |
| QAE000A | 500 MCM CU | 320 | 17-#10 | 0.794 | 1.49 | 1.58 | 1.95 | 3085 | 16 | 475 | 32 | 39 | 104 | 21 | 504 | 55 | 57 | 104 | 21 |
| QAF000A | 750 MCM CU | 320 | 20-#9 | 0.974 | 1.68 | 1.80 | 2.20 | 4339 | 18 | 556 | 25 | 36 | 71 | 20 | 567 | 45 | 45 | 71 | 20 |
| QAG000A | 1000 MCM CU | 320 | 21-#8 | 1.124 | 1.83 | 1.95 | 2.38 | 5524 | 19 | 603 | 22 | 34 | 54 | 18 | 620 | 39 | 37 | 53 | 18 |

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

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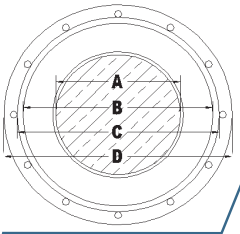
137 Commerce Drive | Johnstown, Ontario K0E 1T1

# 35kV TRXLPE URD

## 100% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (μΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (μΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (μΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (μΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (μΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **35kV 100% Aluminum Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| QBP010A | 1/0 SOLID AL | 345 | 16-#14 | 0.325 | 1.07 | 1.15 | 1.39 | 876 | 12 | 168 | 415 | 35 | 415 | 35 | 217 | 415 | 35 | 415 | 35 |
| QBQ010A | 1/0 AWG AL | 345 | 16-#14 | 0.364 | 1.10 | 1.19 | 1.43 | 909 | 12 | 169 | 420 | 34 | 420 | 34 | 218 | 420 | 34 | 420 | 34 |
| QBR010A | 2/0 AWG AL | 345 | 13-#12 | 0.408 | 1.15 | 1.24 | 1.51 | 1053 | 13 | 194 | 328 | 32 | 328 | 33 | 249 | 328 | 32 | 328 | 33 |
| QBS010A | 3/0 AWG AL | 345 | 16-#12 | 0.458 | 1.20 | 1.29 | 1.56 | 1178 | 13 | 220 | 263 | 31 | 263 | 31 | 283 | 263 | 31 | 263 | 3 |
| QBT010A | 4/0 AWG AL | 345 | 13-#10 | 0.515 | 1.26 | 1.34 | 1.72 | 1455 | 14 | 252 | 207 | 30 | 207 | 30 | 321 | 207 | 30 | 207 | 30 |
| QBU010A | 250 MCM AL | 345 | 16-#10 | 0.561 | 1.31 | 1.40 | 1.77 | 1638 | 15 | 280 | 171 | 28 | 171 | 28 | 353 | 171 | 28 | 171 | 28 |
| QBV010A | 350 MCM AL | 345 | 16-#9 | 0.664 | 1.41 | 1.50 | 1.90 | 1973 | 16 | 331 | 130 | 26 | 130 | 26 | 416 | 130 | 26 | 130 | 26 |
| **35kV 100% Aluminum Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| QBP000A | 1/0 SOLID AL | 345 | 6-#14 | 0.325 | 1.07 | 1.15 | 1.39 | 759 | 12 | 168 | 207 | 54 | 745 | 35 | 219 | 214 | 98 | 729 | 35 |
| QBQ000A | 1/0 AWG AL | 345 | 6-#14 | 0.364 | 1.10 | 1.19 | 1.43 | 792 | 12 | 168 | 212 | 53 | 751 | 34 | 219 | 219 | 96 | 736 | 34 |
| QBR000A | 2/0 AWG AL | 345 | 7-#14 | 0.408 | 1.15 | 1.24 | 1.47 | 861 | 12 | 191 | 168 | 51 | 631 | 32 | 248 | 176 | 93 | 618 | 32 |
| QBS000A | 3/0 AWG AL | 345 | 9-#14 | 0.458 | 1.20 | 1.29 | 1.52 | 952 | 13 | 218 | 133 | 49 | 493 | 31 | 280 | 143 | 90 | 485 | 31 |
| QBT000A | 4/0 AWG AL | 345 | 11-#14 | 0.515 | 1.26 | 1.34 | 1.58 | 1058 | 13 | 247 | 106 | 47 | 401 | 29 | 314 | 117 | 86 | 395 | 29 |
| QBU000A | 250 MCM AL | 345 | 13-#14 | 0.561 | 1.31 | 1.40 | 1.70 | 1224 | 14 | 271 | 90 | 47 | 340 | 28 | 339 | 103 | 83 | 335 | 28 |
| QBV000A | 350 MCM AL | 345 | 18-#14 | 0.664 | 1.41 | 1.50 | 1.80 | 1457 | 15 | 325 | 66 | 44 | 245 | 25 | 394 | 81 | 77 | 243 | 25 |
| QBW000A | 500 MCM AL | 345 | 16-#12 | 0.794 | 1.54 | 1.66 | 1.99 | 1875 | 16 | 392 | 48 | 42 | 173 | 24 | 452 | 65 | 69 | 171 | 24 |
| QBX000A | 750 MCM AL | 345 | 24-#12 | 0.974 | 1.73 | 1.85 | 2.18 | 2419 | 18 | 476 | 34 | 39 | 116 | 21 | 517 | 54 | 59 | 115 | 21 |
| QBY000A | 1000 MCM AL | 345 | 20-#10 | 1.124 | 1.88 | 2.00 | 2.37 | 2989 | 19 | 536 | 28 | 37 | 88 | 20 | 560 | 47 | 51 | 88 | 20 |

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

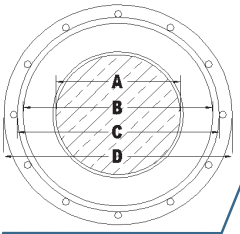
Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

# 35kV TRXLPE URD

## 100% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) | Insulation Diameter (in) | Insulation Shield Diameter (in) | Jacket Diameter (in) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | †Ampacity (Amps) | +/- Sequence Impedance Resistance (μΩ/ft) | +/- Sequence Impedance Reactance (μΩ/ft) | Zero Sequence Impedance Resistance (μΩ/ft)†† | Zero Sequence Impedance Reactance (μΩ/ft)†† | †Ampacity (Amps) | +/- Sequence Impedance Resistance (μΩ/ft) | +/- Sequence Impedance Reactance (μΩ/ft) | Zero Sequence Impedance Resistance (μΩ/ft)†† | Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | (A) | (B) | (C) | (D) | | | 90°C In Duct | | | | | 90°C Direct Buried | | | | |
| **35kV 100% Copper Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| QB7010A | 1/0 SOLID CU | 345 | 16-#12 | 0.325 | 1.07 | 1.15 | 1.42 | 1239 | 12 | 215 | 256 | 36 | 256 | 36 | 276 | 256 | 36 | 256 | 36 |
| QB8010A | 1/0 AWG CU | 345 | 16-#12 | 0.364 | 1.10 | 1.19 | 1.46 | 1274 | 12 | 217 | 258 | 34 | 258 | 35 | 278 | 258 | 34 | 258 | 35 |
| QB9010A | 2/0 AWG CU | 345 | 13-#10 | 0.408 | 1.15 | 1.24 | 1.55 | 1516 | 13 | 248 | 203 | 33 | 203 | 33 | 316 | 203 | 33 | 203 | 33 |
| QBA010A | 3/0 AWG CU | 345 | 16-#10 | 0.458 | 1.20 | 1.29 | 1.60 | 1749 | 13 | 281 | 163 | 31 | 163 | 31 | 358 | 163 | 31 | 163 | 31 |
| QBB010A | 4/0 AWG CU | 345 | 16-#9 | 0.515 | 1.26 | 1.34 | 1.74 | 2141 | 14 | 319 | 130 | 30 | 130 | 30 | 402 | 130 | 30 | 130 | 30 |
| **35kV 100% Copper Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| QB7000A | 1/0 SOLID CU | 345 | 9-#14 | 0.325 | 1.07 | 1.15 | 1.39 | 1016 | 12 | 216 | 126 | 54 | 484 | 35 | 277 | 137 | 97 | 474 | 35 |
| QB8000A | 1/0 AWG CU | 345 | 9-#14 | 0.364 | 1.10 | 1.19 | 1.43 | 1050 | 12 | 216 | 129 | 53 | 487 | 34 | 278 | 139 | 95 | 478 | 34 |
| QB9000A | 2/0 AWG CU | 345 | 11-#14 | 0.408 | 1.15 | 1.24 | 1.47 | 1188 | 12 | 245 | 103 | 51 | 396 | 32 | 311 | 115 | 92 | 389 | 32 |
| QBA000A | 3/0 AWG CU | 345 | 14-#14 | 0.458 | 1.20 | 1.29 | 1.52 | 1365 | 13 | 278 | 82 | 49 | 313 | 31 | 347 | 96 | 87 | 308 | 31 |
| QBB000A | 4/0 AWG CU | 345 | 18-#14 | 0.515 | 1.26 | 1.34 | 1.58 | 1586 | 13 | 314 | 66 | 47 | 245 | 29 | 383 | 83 | 83 | 242 | 29 |
| QBC000A | 250 MCM CU | 345 | 21-#14 | 0.561 | 1.31 | 1.40 | 1.70 | 1848 | 14 | 344 | 57 | 47 | 210 | 28 | 409 | 74 | 79 | 207 | 28 |
| QBD000A | 350 MCM CU | 345 | 18-#12 | 0.664 | 1.41 | 1.50 | 1.83 | 2363 | 15 | 408 | 42 | 44 | 152 | 26 | 461 | 62 | 70 | 151 | 26 |
| QBE000A | 500 MCM CU | 345 | 17-#10 | 0.794 | 1.54 | 1.66 | 2.03 | 3194 | 17 | 480 | 32 | 42 | 104 | 24 | 510 | 53 | 59 | 103 | 24 |
| QBF000A | 750 MCM CU | 345 | 20-#9 | 0.974 | 1.73 | 1.85 | 2.25 | 4410 | 18 | 561 | 25 | 38 | 71 | 22 | 573 | 44 | 47 | 71 | 22 |
| QBG000A | 1000 MCM CU | 345 | 21-#8 | 1.124 | 1.88 | 2.00 | 2.43 | 5601 | 20 | 609 | 22 | 36 | 54 | 20 | 626 | 38 | 39 | 53 | 20 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.

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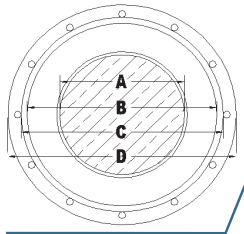
# 35kV TRXLPE URD

## 133% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (μΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (μΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (μΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (μΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (μΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **35kV 133% Aluminum Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| QCP010A | 1/0 SOLID AL | 420 | 16-#14 | 0.325 | 1.22 | 1.31 | 1.55 | 1020 | 13 | 168 | 415 | 35 | 415 | 35 | 217 | 415 | 35 | 415 | 35 |
| QCQ010A | 1/0 AWG AL | 420 | 16-#14 | 0.364 | 1.26 | 1.35 | 1.58 | 1056 | 13 | 169 | 420 | 34 | 420 | 34 | 218 | 420 | 34 | 420 | 34 |
| QCR010A | 2/0 AWG AL | 420 | 13-#12 | 0.408 | 1.30 | 1.39 | 1.72 | 1272 | 14 | 194 | 328 | 32 | 328 | 33 | 249 | 328 | 32 | 328 | 33 |
| QCS010A | 3/0 AWG AL | 420 | 16-#12 | 0.458 | 1.35 | 1.44 | 1.77 | 1404 | 15 | 220 | 263 | 31 | 263 | 31 | 283 | 263 | 31 | 263 | 31 |
| QCT010A | 4/0 AWG AL | 420 | 13-#10 | 0.515 | 1.41 | 1.50 | 1.87 | 1631 | 15 | 252 | 207 | 30 | 207 | 30 | 321 | 207 | 30 | 207 | 30 |
| QCU010A | 250 MCM AL | 420 | 16-#10 | 0.561 | 1.46 | 1.55 | 1.93 | 1819 | 16 | 280 | 171 | 28 | 171 | 28 | 353 | 171 | 28 | 171 | 28 |
| QCV010A | 350 MCM AL | 420 | 16-#9 | 0.664 | 1.57 | 1.68 | 2.08 | 2213 | 17 | 331 | 130 | 26 | 130 | 26 | 416 | 130 | 26 | 130 | 26 |
| **35kV 133% Aluminum Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| QCP000A | 1/0 SOLID AL | 420 | 6-#14 | 0.325 | 1.22 | 1.31 | 1.55 | 903 | 13 | 168 | 207 | 54 | 745 | 35 | 219 | 214 | 98 | 729 | 35 |
| QCQ000A | 1/0 AWG AL | 420 | 6-#14 | 0.364 | 1.26 | 1.35 | 1.58 | 939 | 13 | 168 | 212 | 53 | 751 | 34 | 219 | 219 | 96 | 736 | 34 |
| QCR000A | 2/0 AWG AL | 420 | 7-#14 | 0.408 | 1.30 | 1.39 | 1.63 | 1012 | 14 | 191 | 168 | 51 | 631 | 32 | 248 | 176 | 93 | 618 | 32 |
| QCS000A | 3/0 AWG AL | 420 | 9-#14 | 0.458 | 1.35 | 1.44 | 1.74 | 1174 | 14 | 218 | 133 | 49 | 493 | 31 | 280 | 143 | 90 | 485 | 31 |
| QCT000A | 4/0 AWG AL | 420 | 11-#14 | 0.515 | 1.41 | 1.50 | 1.80 | 1287 | 15 | 247 | 106 | 47 | 401 | 29 | 314 | 117 | 86 | 395 | 29 |
| QCU000A | 250 MCM AL | 420 | 13-#14 | 0.561 | 1.46 | 1.55 | 1.85 | 1398 | 15 | 271 | 90 | 47 | 340 | 28 | 339 | 103 | 83 | 335 | 28 |
| QCV000A | 350 MCM AL | 420 | 18-#14 | 0.664 | 1.57 | 1.68 | 1.98 | 1685 | 16 | 325 | 66 | 44 | 245 | 25 | 394 | 81 | 77 | 243 | 25 |
| QCW000A | 500 MCM AL | 420 | 16-#12 | 0.794 | 1.70 | 1.81 | 2.15 | 2077 | 18 | 392 | 48 | 42 | 173 | 24 | 452 | 65 | 69 | 171 | 24 |
| QCX000A | 750 MCM AL | 420 | 24-#12 | 0.974 | 1.88 | 2.00 | 2.33 | 2640 | 19 | 476 | 34 | 39 | 116 | 21 | 517 | 54 | 59 | 115 | 21 |
| QCY000A | 1000 MCM AL | 420 | 20-#10 | 1.124 | 2.03 | 2.15 | 2.53 | 3228 | 21 | 536 | 28 | 37 | 88 | 20 | 560 | 47 | 51 | 88 | 20 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

Single Phase Impedance Values Assume Full Return in the Metallic Shield.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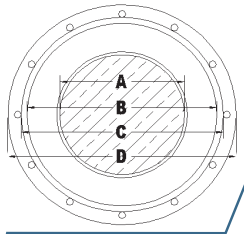
# 35kV TRXLPE URD

## 133% Medium Voltage Utility Cables




| Product Number | Conductor | Insulation Thickness (mils) | Concentric Neutral | Conductor Diameter (in) (A) | Insulation Diameter (in) (B) | Insulation Shield Diameter (in) (C) | Jacket Diameter (in) (D) | Cable Weight (lbs/kft) | Minimum Bending Radius (in) | 90°C In Duct †Ampacity (Amps) | 90°C In Duct +/- Sequence Impedance Resistance (μΩ/ft) | 90°C In Duct +/- Sequence Impedance Reactance (μΩ/ft) | 90°C In Duct Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C In Duct Zero Sequence Impedance Reactance (μΩ/ft)†† | 90°C Direct Buried †Ampacity (Amps) | 90°C Direct Buried +/- Sequence Impedance Resistance (μΩ/ft) | 90°C Direct Buried +/- Sequence Impedance Reactance (μΩ/ft) | 90°C Direct Buried Zero Sequence Impedance Resistance (μΩ/ft)†† | 90°C Direct Buried Zero Sequence Impedance Reactance (μΩ/ft)†† |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **35kV 133% Copper Single Phase - Full Neutral** | | | | | | | | | | | | | | | | | | | |
| QC7010A | 1/0 SOLID CU | 420 | 16-#12 | 0.325 | 1.22 | 1.31 | 1.58 | 1386 | 13 | 215 | 256 | 36 | 256 | 36 | 276 | 256 | 36 | 256 | 36 |
| QC8010A | 1/0 AWG CU | 420 | 16-#12 | 0.364 | 1.26 | 1.35 | 1.62 | 1425 | 13 | 217 | 258 | 34 | 258 | 35 | 278 | 258 | 34 | 258 | 35 |
| QC9010A | 2/0 AWG CU | 420 | 13-#10 | 0.408 | 1.30 | 1.39 | 1.76 | 1742 | 15 | 248 | 203 | 33 | 203 | 33 | 316 | 203 | 33 | 203 | 33 |
| QCA010A | 3/0 AWG CU | 420 | 16-#10 | 0.458 | 1.35 | 1.44 | 1.81 | 1981 | 15 | 281 | 163 | 31 | 163 | 31 | 358 | 163 | 31 | 163 | 31 |
| QCB010A | 4/0 AWG CU | 420 | 16-#9 | 0.515 | 1.41 | 1.50 | 1.90 | 2319 | 16 | 319 | 130 | 30 | 130 | 30 | 402 | 130 | 30 | 130 | 30 |
| **35kV 133% Copper Three Phase - One-Third Neutral** | | | | | | | | | | | | | | | | | | | |
| QC7000A | 1/0 SOLID CU | 420 | 9-#14 | 0.325 | 1.22 | 1.31 | 1.55 | 1160 | 13 | 216 | 126 | 54 | 484 | 35 | 277 | 137 | 97 | 474 | 35 |
| QC8000A | 1/0 AWG CU | 420 | 9-#14 | 0.364 | 1.26 | 1.35 | 1.58 | 1197 | 13 | 216 | 129 | 53 | 487 | 34 | 278 | 139 | 95 | 478 | 34 |
| QC9000A | 2/0 AWG CU | 420 | 11-#14 | 0.408 | 1.30 | 1.39 | 1.63 | 1340 | 14 | 245 | 103 | 51 | 396 | 32 | 311 | 115 | 92 | 389 | 32 |
| QCA000A | 3/0 AWG CU | 420 | 14-#14 | 0.458 | 1.35 | 1.44 | 1.74 | 1587 | 14 | 278 | 82 | 49 | 313 | 31 | 347 | 96 | 87 | 308 | 31 |
| QCB000A | 4/0 AWG CU | 420 | 18-#14 | 0.515 | 1.41 | 1.50 | 1.80 | 1816 | 15 | 314 | 66 | 47 | 245 | 29 | 383 | 83 | 83 | 242 | 29 |
| QCC000A | 250 MCM CU | 420 | 21-#14 | 0.561 | 1.46 | 1.55 | 1.85 | 2022 | 15 | 344 | 57 | 47 | 210 | 28 | 409 | 74 | 79 | 207 | 28 |
| QCD000A | 350 MCM CU | 420 | 18-#12 | 0.664 | 1.57 | 1.68 | 2.02 | 2595 | 17 | 408 | 42 | 44 | 152 | 26 | 461 | 62 | 70 | 151 | 26 |
| QCE000A | 500 MCM CU | 420 | 17-#10 | 0.794 | 1.70 | 1.81 | 2.19 | 3401 | 18 | 480 | 32 | 42 | 104 | 24 | 510 | 53 | 59 | 103 | 24 |
| QCF000A | 750 MCM CU | 420 | 20-#9 | 0.974 | 1.88 | 2.00 | 2.40 | 4637 | 20 | 561 | 25 | 38 | 71 | 22 | 573 | 44 | 47 | 71 | 22 |
| QCG000A | 1000 MCM CU | 420 | 21-#8 | 1.124 | 2.03 | 2.15 | 2.58 | 5846 | 21 | 609 | 22 | 36 | 54 | 20 | 626 | 38 | 39 | 53 | 20 |

† Ampacities are based on the following:

Single Phase Operation (Full Neutral Design)

In Duct: One single cable in plastic duct, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: One single cable, direct-buried, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

†† Zero Sequence Impedance considers all return in the neutral only.

Three Phase Operation (1/3 Neutral Design)

In Duct: Three single cables in plastic duct, direct-buried in a triangular configuration, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited.

Direct Buried: Three single cables, direct-buried, spaced 7.5 inches horizontally, 90°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, 100% load factor, 36 inch depth of burial, and shields short-circuited

PRODUCT NOTES:

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Single Phase Impedance Values Assume Full Return in the Metallic Shield.



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