



Multiplexed Overhead Service and Secondary Cables

Crosslinked

Polyethylene (XLPE) &

Polyethylene (PE)



Description:

Alcan Multiplexed Overhead Service and Secondary Cable assemblies consist of one or more insulated conductors and one bare neutral conductor. The cable assembly may be used as a service drop (power pole to service entrance) or as a secondary cable (pole to pole). XLPE insulated cables are rated for 90° C operation.

Insulated Conductors:

The phase conductors may be either solid or compressed stranded 1350 H-19 (hard drawn) aluminum complying with the following specifications:

ASTM—B-230:

H-19 Round Aluminum Wire

ASTM—B-231:

Stranded 1350 Aluminum Conductor

Insulation:

Insulation is black low density crosslinked polyethylene (XLPE) in accordance with ICEA S-76-474.



The cable Assemblies bear the following surface markings of intervals not to exceed 24 inches: Alcan, (Plant of Manufacture), XLPE, (Year of Manufacture).

Neutral:

Cable assemblies are available with any of the following neutral conductors:

1. Stranded All Aluminum (AAC):
ASTM—B-231
2. Aluminum Conductor
Steel Reinforced (ACSR):
ASTM—B-232
3. Aluminum Alloy
Conductor 6201 (AAAC):
ASTM—B-399

Assembly:

One or more insulated conductors are twisted around the neutral conductor with a lay length of 25 to 60 times the diameter of one phase conductor. The direction of lay is right hand.

Electrical Testing:

After a one hour immersion in water at room temperature each length of cable, while still immersed, will withstand 2.5 kV AC (60 Hz) phase to ground for one minute.

Markings:

The cable Assemblies bear the following surface markings at intervals not to exceed 24 inches: Alcan, (Plant of Manufacture), XLPE, (Year of Manufacture).

NOTE: Data are approximate and subject to normal manufacturing tolerances.



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AAC Neutral

Crosslinked Polyethylene Duplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | Ampacity (Amps) | STANDARD PACKAGE | |
|-------------|--------------------------------|-------------------------------------|------------------|------------------|--------------------------------|-----------------------------|-----------------------------------|----------|-------|--------------------|------------------|---------------|
| | Size & Number of Strands | Insulation Thickness (Inches) | NOMINAL DIAMETER | | Size & Number of Strands | Rated Strength (Lbs.) | Compound | Aluminum | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Inches) | O.D. (Inches) | | | | | | | | |
| COLLIE/XLP | 6-7 | .45 | .178 | .268 | 6-7 | 563 | 15 | 50 | 65 | 85 | 1000 | 3300 |
| SPANIEL/XLP | 4-7 | .45 | .225 | .315 | 4-7 | 881 | 19 | 79 | 98 | 115 | 1000 | 2200 |

* 40° C ambient, 90° C conductor temperature; sun and wind¹.

Crosslinked Polyethylene Triplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | Ampacity (Amps) | STANDARD PACKAGE | |
|---------------|--------------------------------|-------------------------------------|------------------|------------------|--------------------------------|-----------------------------|-----------------------------------|----------|-------|--------------------|------------------|---------------|
| | Size & Number of Strands | Insulation Thickness (Inches) | NOMINAL DIAMETER | | Size & Number of Strands | Rated Strength (Lbs.) | Compound | Aluminum | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Inches) | O.D. (Inches) | | | | | | | | |
| OYSTER/XLP | 4-7 | .45 | .225 | .315 | 4-7 | 881 | 39 | 118 | 157 | 115 | 500 | 1500 |
| CLAM/XLP | 2-7 | .45 | .283 | .373 | 2-7 | 1350 | 49 | 188 | 237 | 150 | 500 | 1800 |
| MUREX/XLP | 1/0-7 | .60 | .357 | .477 | 1/0-7 | 1990 | 81 | 299 | 380 | 200 | 500 | 1200 |
| PURPURA/XLP | 1/0-19 | .60 | .362 | .482 | 1/0-7 | 1990 | 76 | 299 | 375 | 200 | 500 | 1200 |
| NASSA/XLP | 2/0-7 | .60 | .401 | .521 | 2/0-7 | 2510 | 92 | 377 | 469 | 230 | – | 1500 |
| TROPHON/XLP | 2/0-19 | .60 | .406 | .526 | 2/0-7 | 2510 | 84 | 377 | 461 | 230 | – | 1500 |
| PORTUNUS/XLP | 4/0-19 | .60 | .512 | .632 | 4/0-19 | 4020 | 106 | 599 | 705 | 310 | – | 1000 |
| NANNYNOSE/XLP | 336.4-19 | .80 | .646 | .806 | 336.4-19 | 6150 | 178 | 952 | 1130 | 380 | – | 1000 |

* 40° C ambient, 90° C conductor temperature; sun and wind¹.

Crosslinked Polyethylene Quadruplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | Ampacity (Amps) | STANDARD PACKAGE | |
|----------------|--------------------------------|-----------------------------------|------------------|----------------|--------------------------------|-----------------------------|-----------------------------------|----------|-------|--------------------|------------------|---------------|
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands | Rated Strength (Lbs.) | Compound | Aluminum | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | |
| PINTO/XLP | 4-7 | 45 | 225 | 315 | 4-7 | 881 | 58 | 158 | 216 | 100 | 500 | 1700 |
| MUSTANG/XLP | 2-7 | 45 | 283 | 373 | 2-7 | 1350 | 73 | 251 | 324 | 135 | – | 1800 |
| CRIOLLO/XLP | 1/0-19 | 60 | 362 | 482 | 1/0-7 | 1990 | 113 | 398 | 511 | 180 | – | 1200 |
| PERCHERON/XLP | 2/0-19 | 60 | 406 | 526 | 2/0-7 | 2510 | 126 | 502 | 628 | 210 | – | 1500 |
| HANOVERIAN/XLP | 3/0-19 | 60 | 456 | 576 | 3/0-19 | 3310 | 141 | 633 | 774 | 240 | – | 1300 |
| SINGLEFOOT/XLP | 4/0-7 | 60 | 506 | 626 | 4/0-7 | 3830 | 178 | 798 | 976 | 280 | – | 1100 |
| OLDENBURG/XLP | 4/0-19 | 60 | 512 | 632 | 4/0-7 | 3830 | 159 | 798 | 957 | 280 | – | 1100 |
| LIPPZANER/XLP | 336.4-19 | 80 | 646 | 806 | 336.4-19 | 6150 | 267 | 1270 | 1537 | 330 | – | 1000 |

* 40° C ambient, 90° C conductor temperature; sun and wind².

NOTICE: This information is presented in good faith, but no warranty, express or implied, is given, nor is freedom from any patent owned by Alcan or by others to be inferred. While reference is made to procedures and practices of certain specifying agencies, the appropriate local codes must be reviewed prior to any electrical conductor installations.

ACSR Neutral

Crosslinked Polyethylene Duplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | | Ampacity (Amps) | STANDARD PACKAGE | |
|--------------|--------------------------|-----------------------------|------------------|-------------|--------------------------|-----------------------|--------------------------------|----------|-------|-------|-----------------|------------------|------------|
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands | Rated Strength (Lbs.) | Compound | Aluminum | Steel | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | | |
| SETTER/XLP | 6-solid | 45 | 162 | 252 | 6-6/1 | 1190 | 13 | 49 | 12 | 74 | 85 | 1000 | 3300 |
| SHEPHERD/XLP | 6-7 | 45 | 178 | 268 | 6-6/1 | 1190 | 15 | 50 | 12 | 77 | 85 | 1000 | 3300 |
| TERRIER/XLP | 4-7 | 45 | 225 | 315 | 4-6/1 | 1860 | 19 | 79 | 18 | 116 | 115 | 1000 | 2400 |

* 40° C ambient, 90° C conductor temperature; sun and wind'.

Crosslinked Polyethylene Triplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | | Ampacity (Amps) | STANDARD PACKAGE | |
|----------------|--------------------------|-----------------------------|------------------|-------------|--------------------------|-----------------------|--------------------------------|----------|-------|-------|-----------------|------------------|------------|
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands | Rated Strength (Lbs.) | Compound | Aluminum | Steel | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | | |
| VOLUTA/XLP | 6-7 | 45 | 178 | 268 | 6-6/1 | 1190 | 31 | 74 | 12 | 117 | 85 | 1000 | 2200 |
| STROMBUS/XLP | 4-7 | 45 | 225 | 315 | 6-6/1 | 1190 | 39 | 103 | 12 | 154 | 115 | 500 | 1500 |
| WHELK/XLP | 4-solid | 45 | 204 | 294 | 4-6/1 | 1860 | 31 | 116 | 18 | 165 | 115 | 500 | 1700 |
| PERIWINKLE/XLP | 4-7 | 45 | 225 | 315 | 4-6/1 | 1860 | 39 | 118 | 18 | 175 | 115 | 500 | 1500 |
| COCKLE/XLP | 2-7 | 45 | 283 | 373 | 4-6/1 | 1860 | 49 | 164 | 18 | 231 | 150 | 500 | 1800 |
| CONCH/XLP | 2-7 | 45 | 283 | 373 | 2-6/1 | 2850 | 49 | 188 | 29 | 266 | 150 | 500 | 1800 |
| JANTHINA/XLP | 1/0-7 | 60 | 357 | 477 | 2-6/1 | 2850 | 81 | 262 | 29 | 372 | 200 | 500 | 1200 |
| RANELLA/XLP | 1/0-19 | 60 | 362 | 482 | 2-6/1 | 2850 | 76 | 262 | 29 | 367 | 200 | 500 | 1200 |
| NERITINA/XLP | 1/0-7 | 60 | 357 | 477 | 1/0-6/1 | 4380 | 81 | 298 | 47 | 426 | 200 | 500 | 1200 |
| CENIA/XLP | 1/0-19 | 60 | 362 | 482 | 1/0-6/1 | 4380 | 76 | 298 | 47 | 421 | 200 | 500 | 1200 |
| RUNCINA/XLP | 2/0-7 | 60 | 401 | 521 | 2/0-6/1 | 5300 | 92 | 376 | 59 | 527 | 230 | - | 1500 |
| TRITON/XLP | 2/0-19 | 60 | 406 | 526 | 2/0-6/1 | 5300 | 84 | 376 | 59 | 519 | 230 | - | 1500 |
| MURSA/XLP | 3/0-19 | 60 | 456 | 576 | 3/0-6/1 | 6620 | 94 | 474 | 74 | 642 | 265 | - | 1300 |
| CERAPUS/XLP | 4/0-19 | 60 | 512 | 632 | 2/0-6/1 | 5300 | 106 | 524 | 59 | 689 | 310 | - | 1000 |
| ZUZARA/XLP | 4/0-19 | 60 | 512 | 632 | 4/0-6/1 | 8350 | 106 | 598 | 93 | 797 | 310 | - | 1000 |
| COWRY/XLP | 336.4-19 | 80 | 646 | 806 | 4/0-6/1 | 8350 | 178 | 834 | 93 | 1105 | 380 | - | 1000 |
| LIMPET/XLP | 336.4-19 | 80 | 646 | 806 | 336.4-18/1 | 8680 | 178 | 952 | 50 | 1180 | 380 | - | 1000 |

* 40° C ambient, 90° C conductor temperature; sun and wind'.

Crosslinked Polyethylene Quadruplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | | Ampacity (Amps) | STANDARD PACKAGE | |
|---------------|--------------------------|-----------------------------|------------------|-------------|--------------------------|-----------------------|--------------------------------|----------|-------|-------|-----------------|------------------|------------|
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands | Rated Strength (Lbs.) | Compound | Aluminum | Steel | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | | |
| HACKNEY/XLP | 4-7 | 45 | 225 | 315 | 4-6/1 | 1860 | 58 | 157 | 18 | 233 | 100 | 500 | 1700 |
| PALOMINO/XLP | 2-7 | 45 | 283 | 373 | 2-6/1 | 2850 | 73 | 250 | 29 | 352 | 135 | - | 1800 |
| COSTENA/XLP | 1/0-19 | 60 | 362 | 482 | 1/0-6/1 | 4380 | 113 | 398 | 47 | 558 | 180 | - | 1200 |
| GRULLO/XLP | 2/0-19 | 60 | 406 | 526 | 2/0-6/1 | 5300 | 126 | 502 | 59 | 687 | 210 | - | 1500 |
| SUFFOLK/XLP | 3/0-19 | 60 | 456 | 576 | 3/0-6/1 | 6620 | 141 | 632 | 74 | 847 | 240 | - | 1300 |
| STALLON/XLP | 4/0-7 | 60 | 506 | 626 | 4/0-6/1 | 8350 | 178 | 798 | 93 | 1069 | 280 | - | 1100 |
| APPALOOSA/XLP | 4/0-19 | 60 | 512 | 632 | 4/0-6/1 | 8350 | 159 | 798 | 93 | 1050 | 280 | - | 1100 |
| GELDING/XLP | 336.4-19 | 80 | 646 | 806 | 4/0-6/1 | 8350 | 267 | 1151 | 93 | 1511 | 330 | - | 1000 |
| BRONCO/XLP | 336.4-19 | 80 | 646 | 806 | 336.4-18/1 | 8680 | 267 | 1270 | 50 | 1587 | 330 | - | 1000 |

* 40° C ambient, 90° C conductor temperature; sun and wind'.

- NOTES: 1. See Table 10 of Aluminum Association "Ampacities for Aluminum and ACSR Overhead Electrical Conductors for Additional Cases."
 2. See Table 10 of Aluminum Association "Ampacities for Aluminum and ACSR Overhead Electrical Conductors for Additional Cases."

6201 Neutral

Crosslinked Polyethylene Duplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | Ampacity** (Amps) | STANDARD PACKAGE | |
|-------------|--------------------------|-----------------------------|------------------|-------------|---------------------------|-----------------------|--------------------------------|----------|-------|-------------------|------------------|------------|
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands' | Rated Strength (Lbs.) | Compound | Aluminum | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | |
| VIZSLA/XLP | 6-7 | 45 | 178 | 268 | 6-7 | 1110 | 15 | 54 | 69 | 85 | 1000 | 3300 |
| WHIPPET/XLP | 4-7 | 45 | 225 | 315 | 4-7 | 1760 | 19 | 85 | 104 | 115 | 1000 | 2400 |

* 1350 equivalent.

** 40° C ambient, 90° conductor temperature; sun and wind'.

Crosslinked Polyethylene Triplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | Ampacity** (Amps) | STANDARD PACKAGE | |
|---------------|--------------------------|-----------------------------|------------------|-------------|---------------------------|-----------------------|--------------------------------|----------|-------|-------------------|------------------|------------|
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands' | Rated Strength (Lbs.) | Compound | Aluminum | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | |
| ARTEMIA/XLP | 4-solid | 45 | 204 | 294 | 6-7 | 1110 | 31 | 106 | 137 | 115 | 1000 | 1700 |
| CRAB/XLP | 4-7 | 45 | 225 | 315 | 6-7 | 1110 | 39 | 108 | 147 | 115 | 1000 | 1500 |
| BARNACLES/XLP | 4-7 | 45 | 225 | 315 | 4-7 | 1760 | 39 | 125 | 164 | 115 | 500 | 1500 |
| SOLASTER/XLP | 2-7 | 45 | 283 | 373 | 4-7 | 1760 | 49 | 171 | 220 | 150 | 500 | 1800 |
| SHRIMP/XLP | 2-7 | 45 | 283 | 373 | 2-7 | 2800 | 49 | 198 | 247 | 150 | 500 | 1800 |
| SANDCRAB/XLP | 1/0-7 | 60 | 357 | 477 | 2-7 | 2800 | 81 | 272 | 353 | 200 | 500 | 1200 |
| ECHINUS/XLP | 1/0-19 | 60 | 362 | 482 | 2-7 | 2800 | 76 | 272 | 348 | 200 | 500 | 1200 |
| GAMMARUS/XLP | 1/0-7 | 60 | 357 | 477 | 1/0-7 | 4270 | 81 | 316 | 397 | 200 | 500 | 1200 |
| LEDA/XLP | 1/0-19 | 60 | 362 | 482 | 1/0-7 | 4270 | 76 | 316 | 392 | 200 | 500 | 1200 |
| DUNGENESE/XLP | 2/0-7 | 60 | 401 | 521 | 2/0-7 | 5390 | 92 | 398 | 490 | 230 | - | 1500 |
| CYCLOPS/XLP | 2/0-19 | 60 | 406 | 526 | 2/0-7 | 5390 | 84 | 398 | 482 | 230 | - | 1500 |
| KINGCRAB/XLP | 4/0-7 | 60 | 506 | 626 | 4/0-7 | 8560 | 118 | 632 | 750 | 310 | - | 1000 |
| ARCA/XLP | 4/0-19 | 60 | 512 | 632 | 2/0-7 | 5390 | 106 | 546 | 652 | 310 | - | 1000 |
| LEPAS/XLP | 4/0-19 | 60 | 512 | 632 | 4/0-7 | 8560 | 106 | 632 | 738 | 310 | - | 1000 |
| ARGONAUT/XLP | 336.4-19 | 80 | 646 | 806 | 4/0-7 | 8560 | 178 | 868 | 1046 | 380 | - | 1000 |
| NAUTILUS/XLP | 336.4-19 | 80 | 646 | 806 | 336.4-19 | 13300 | 178 | 1007 | 1185 | 380 | - | 1000 |

* 1350 equivalent.

** 40° C ambient, 90° conductor temperature; sun and wind'.

Crosslinked Polyethylene Quadruplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | Ampacity** (Amps) | STANDARD PACKAGE | |
|------------------|--------------------------|-----------------------------|------------------|-------------|---------------------------|-----------------------|--------------------------------|----------|-------|-------------------|------------------|------------|
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands' | Rated Strength (Lbs.) | Compound | Aluminum | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | |
| ARABIAN/XLP | 4-7 | 45 | 225 | 315 | 4-7 | 1760 | 58 | 164 | 222 | 100 | 500 | 1700 |
| BELGIAN/XLP | 2-7 | 45 | 283 | 373 | 2-7 | 2800 | 73 | 261 | 334 | 135 | - | 1800 |
| SHETLAND/XLP | 1/0-19 | 60 | 362 | 482 | 1/0-7 | 4270 | 113 | 415 | 528 | 180 | - | 1200 |
| THOROUGHBRED/XLP | 2/0-19 | 60 | 406 | 526 | 2/0-7 | 5390 | 126 | 523 | 649 | 210 | - | 1500 |
| TROTTER/XLP | 3/0-19 | 60 | 456 | 576 | 3/0-7 | 6790 | 141 | 660 | 801 | 240 | - | 1300 |
| WALKING/XLP | 4/0-19 | 60 | 512 | 632 | 4/0-7 | 8560 | 159 | 832 | 991 | 280 | - | 1100 |
| EXMOOR/XLP | 336.4-19 | 80 | 646 | 806 | 4/0-19 | 8560 | 267 | 1185 | 1452 | 330 | - | 1000 |
| BRETON/XLP | 336.4-19 | 80 | 646 | 806 | 336.4-19 | 13300 | 267 | 1324 | 1591 | 330 | - | 1000 |

* 1350 equivalent.

** 40° C ambient, 90° conductor temperature; sun and wind'.

Impedance Data

| Triplex Overhead Service Drop | | | | | |
|--------------------------------------|---------|-------------------------------|--------|--------|-------------------------------------|
| Phase | Neutral | AC RESISTANCE (OHMS/1000 FT.) | | | INDUCTIVE REACTANCE (OHMS/1000 FT.) |
| | | 25° C | 50° C | 75° C | x1 |
| # 6 | # 6 | 0.6725 | 0.7392 | 0.8059 | 0.0298 |
| # 4 | # 6 | 0.4227 | 0.4645 | 0.5064 | 0.0272 |
| # 4 | # 4 | 0.4227 | 0.4645 | 0.5064 | 0.0290 |
| # 2 | # 4 | 0.2655 | 0.2929 | 0.3182 | 0.0262 |
| # 2 | # 2 | 0.2655 | 0.2929 | 0.3182 | 0.0277 |
| 1/0 | # 2 | 0.1671 | 0.1837 | 0.2002 | 0.0223 |
| 1/0 | 1/0 | 0.1671 | 0.1837 | 0.2002 | 0.0256 |
| 2/0 | 2/0 | 0.1326 | 0.1456 | 0.1587 | 0.0252 |
| 3/0 | 3/0 | 0.1053 | 0.1157 | 0.1259 | 0.0251 |
| 4/0 | 4/0 | 0.0835 | 0.0917 | 0.1001 | 0.0249 |
| 336.4 | 4/0 | 0.0527 | 0.0578 | 0.0629 | 0.0241 |
| 336.4 | 336.4 | 0.0527 | 0.0578 | 0.0629 | 0.0255 |

NOTES: Neutral sizes are ACSR or AAAC.
Soil (RHO) Resistivity = 100.

| Quadruplex Overhead Service Drop | | | | | |
|---|---------|-------------------------------|--------|--------|-------------------------------------|
| Phase | Neutral | AC RESISTANCE (OHMS/1000 FT.) | | | Inductive Reactance (Ohms/1000 Ft.) |
| | | 25° C | 50° C | 75° C | |
| #4 | #4 | 0.4227 | 0.4645 | 0.5064 | 0.0290 |
| #2 | #2 | 0.2655 | 0.2929 | 0.3182 | 0.0277 |
| 1/0 | 1/0 | 0.1671 | 0.1837 | 0.2002 | 0.0256 |
| 2/0 | 2/0 | 0.1326 | 0.1456 | 0.1587 | 0.0252 |
| 3/0 | 3/0 | 0.1053 | 0.1157 | 0.1259 | 0.0251 |
| 4/0 | 4/0 | 0.0835 | 0.0917 | 0.1001 | 0.0249 |
| 336.4 | 4/0 | 0.0527 | 0.0578 | 0.0629 | 0.0251 |
| 336.4 | 336.4 | 0.0527 | 0.0578 | 0.0629 | 0.0255 |

NOTES: Neutral sizes are ACSR or AAAC.
Soil (RHO) Resistivity = 100.

Description:

Alcan Multiplexed Overhead Service and Secondary Cable assemblies consist of one or more insulated conductors and one bare neutral conductor. The cable assembly may be used as a service drop (power pole to service entrance) or as a secondary cable (pole to pole). Polyethylene insulated cables are rated for 75° C operation.

Insulated Conductors:

The phase conductors may be either solid or compressed stranded 1350 H-19 (hard drawn) aluminum complying with the following specifications:

ASTM—B-230:

H-19 Round Aluminum Wire

ASTM—B-231:

Stranded 1350 Aluminum Conductor

Insulation:

Insulation is a black high molecular weight-low density polyethylene in accordance with ICEA S-76-474.



The cable Assemblies bear the following surface markings of intervals not to exceed 24 inches: Alcan, (Plant of Manufacture), XLPE, (Year of Manufacture).

Neutral:

Cable assemblies are available with any of the following neutral conductors:

1. Stranded All Aluminum (AAC):
ASTM—B-231
2. Aluminum Conductor
Steel Reinforced (ACSR):
ASTM—B-232
3. Aluminum Alloy
Conductor 6201 (AAAC):
ASTM—B-399

Assembly:

One or more insulated conductors are twisted around the neutral conductor with a lay length of 25 to 60 times the diameter of one phase conductor. The direction of lay is right hand.

Electrical Testing:

After a one hour immersion in water at room temperature each length of cable, while still immersed, will withstand 2.5 kV AC (60 Hz) phase to ground for one minute.

Markings:

The cable Assemblies bear the following surface markings at intervals not to exceed 24 inches: Alcan, (Plant of Manufacture), (Year of Manufacture).

**High Density Polyethylene insulation available upon request*

NOTE: Data are approximate and subject to normal manufacturing tolerances.



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AAC Neutral

Polyethylene Duplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | Ampacity (Amps) | STANDARD PACKAGE | |
|-----------|--------------------------------|-------------------------------------|------------------|------------------|--------------------------------|-----------------------------|-----------------------------------|----------|-------|--------------------|------------------|---------------|
| | Size & Number of Strands | Insulation Thickness (Inches) | NOMINAL DIAMETER | | Size & Number of Strands | Rated Strength (Lbs.) | Compound | Aluminum | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Inches) | O.D. (Inches) | | | | | | | | |
| COLLIE | 6-7 | .45 | .178 | .268 | 6-7 | 563 | 14 | 50 | 64 | 70 | 1000 | 3300 |
| SPANIEL | 4-7 | .45 | .225 | .315 | 4-7 | 881 | 18 | 79 | 97 | 90 | 1000 | 2200 |

* 40° C ambient, 75° C conductor temperature; sun and wind¹.

Polyethylene Triplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | Ampacity (Amps) | STANDARD PACKAGE | |
|-----------|--------------------------------|-------------------------------------|------------------|------------------|--------------------------------|-----------------------------|-----------------------------------|----------|-------|--------------------|------------------|---------------|
| | Size & Number of Strands | Insulation Thickness (Inches) | NOMINAL DIAMETER | | Size & Number of Strands | Rated Strength (Lbs.) | Compound | Aluminum | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Inches) | O.D. (Inches) | | | | | | | | |
| OYSTER | 4-7 | .45 | .225 | .315 | 4-7 | 881 | 35 | 118 | 153 | 90 | 500 | 1500 |
| CLAM | 2-7 | .45 | .283 | .373 | 2-7 | 1350 | 45 | 188 | 233 | 115 | 500 | 1800 |
| MUREX | 1/0-7 | .60 | .357 | .477 | 1/0-7 | 1990 | 75 | 299 | 374 | 155 | 500 | 1200 |
| PURPURA | 1/0-19 | .60 | .362 | .482 | 1/0-7 | 1990 | 70 | 299 | 369 | 155 | 500 | 1200 |
| NASSA | 2/0-7 | .60 | .401 | .521 | 2/0-7 | 2510 | 85 | 377 | 462 | 180 | - | 1500 |
| TROPHON | 2/0-19 | .60 | .406 | .526 | 2/0-7 | 2510 | 78 | 377 | 455 | 180 | - | 1500 |
| PORTUNUS | 4/0-19 | .60 | .512 | .632 | 4/0-19 | 4020 | 98 | 599 | 697 | 235 | - | 1000 |
| NANNYNOSE | 336.4-19 | .80 | .646 | .806 | 336.4-19 | 6150 | 164 | 952 | 1116 | 290 | - | 1000 |

* 40° C ambient, 75° C conductor temperature; sun and wind¹.

Polyethylene Quadruplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | Ampacity (Amps) | STANDARD PACKAGE | |
|------------|--------------------------------|-----------------------------------|------------------|----------------|--------------------------------|-----------------------------|-----------------------------------|----------|-------|--------------------|------------------|---------------|
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands | Rated Strength (Lbs.) | Compound | Aluminum | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | |
| PINTO | 4-7 | 45 | 225 | 315 | 4-7 | 881 | 53 | 158 | 211 | 80 | 500 | 1700 |
| MUSTANG | 2-7 | 45 | 283 | 373 | 2-7 | 1350 | 67 | 251 | 318 | 105 | - | 1800 |
| CRIOLLO | 1/0-19 | 60 | 362 | 482 | 1/0-7 | 1990 | 104 | 398 | 502 | 135 | - | 1200 |
| PERCHERON | 2/0-19 | 60 | 406 | 526 | 2/0-7 | 2510 | 116 | 502 | 618 | 155 | - | 1500 |
| HANOVERIAN | 3/0-19 | 60 | 456 | 576 | 3/0-19 | 3310 | 130 | 633 | 763 | 180 | - | 1300 |
| SINGLEFOOT | 4/0-7 | 60 | 506 | 626 | 4/0-7 | 3830 | 163 | 798 | 961 | 205 | - | 1100 |
| OLDENBURG | 4/0-19 | 60 | 512 | 632 | 4/0-7 | 3830 | 146 | 798 | 944 | 205 | - | 1100 |
| LIPPZANER | 336.4-19 | 80 | 646 | 806 | 336.4-19 | 6150 | 246 | 1270 | 1516 | 240 | - | 1000 |

* 40° C ambient, 75° C conductor temperature; sun and wind².

NOTICE: This information is presented in good faith, but no warranty, express or implied, is given, nor is freedom from any patent owned by Alcan or by others to be inferred. While reference is made to procedures and practices of certain specifying agencies, the appropriate local codes must be reviewed prior to any electrical conductor installations.

ACSR Neutral

| Polyethylene Duplex | | | | | | | | | | | | | |
|----------------------------|--------------------------|-----------------------------|------------------|-------------|--------------------------|-----------------------|--------------------------------|----------|-------|-------|-----------------|------------------|------------|
| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | | Ampacity (Amps) | STANDARD PACKAGE | |
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands | Rated Strength (Lbs.) | Compound | Aluminum | Steel | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | | |
| SETTER | 6-solid | 45 | 162 | 252 | 6-6/1 | 1190 | 12 | 49 | 12 | 73 | 70 | 1000 | 3300 |
| SHEPHERD | 6-7 | 45 | 178 | 268 | 6-6/1 | 1190 | 14 | 50 | 12 | 76 | 70 | 1000 | 3300 |
| TERRIER | 4-7 | 45 | 225 | 315 | 4-6/1 | 1860 | 18 | 79 | 18 | 115 | 90 | 1000 | 2400 |

* 40° C ambient, 75° C conductor temperature; sun and wind'.

| Polyethylene Triplex | | | | | | | | | | | | | |
|-----------------------------|--------------------------|-----------------------------|------------------|-------------|--------------------------|-----------------------|--------------------------------|----------|-------|-------|-----------------|------------------|------------|
| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | | Ampacity (Amps) | STANDARD PACKAGE | |
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands | Rated Strength (Lbs.) | Compound | Aluminum | Steel | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | | |
| VOLUTA | 6-7 | 45 | 178 | 268 | 6-6/1 | 1190 | 28 | 74 | 12 | 114 | 70 | 1000 | 2200 |
| STROMBUS | 4-7 | 45 | 225 | 315 | 6-6/1 | 1190 | 35 | 103 | 12 | 150 | 90 | 500 | 1500 |
| WHELK | 4-solid | 45 | 204 | 294 | 4-6/1 | 1860 | 29 | 116 | 18 | 163 | 90 | 500 | 1700 |
| PERIWINKLE | 4-7 | 45 | 225 | 315 | 4-6/1 | 1860 | 35 | 118 | 18 | 171 | 90 | 500 | 1500 |
| COCKLE | 2-7 | 45 | 283 | 373 | 4-6/1 | 1860 | 45 | 164 | 18 | 227 | 115 | 500 | 1800 |
| CONCH | 2-7 | 45 | 283 | 373 | 2-6/1 | 2850 | 45 | 188 | 29 | 262 | 115 | 500 | 1800 |
| JANTHINA | 1/0-7 | 60 | 357 | 477 | 2-6/1 | 2850 | 75 | 262 | 29 | 366 | 155 | 500 | 1200 |
| RANELLA | 1/0-19 | 60 | 362 | 482 | 2-6/1 | 2850 | 70 | 262 | 29 | 361 | 155 | 500 | 1200 |
| NERITINA | 1/0-7 | 60 | 357 | 477 | 1/0-6/1 | 4380 | 75 | 298 | 47 | 420 | 155 | 500 | 1200 |
| CENIA | 1/0-19 | 60 | 362 | 482 | 1/0-6/1 | 4380 | 70 | 298 | 47 | 415 | 155 | 500 | 1200 |
| RUNCINA | 2/0-7 | 60 | 401 | 521 | 2/0-6/1 | 5300 | 85 | 376 | 59 | 520 | 180 | - | 1500 |
| TRITON | 2/0-19 | 60 | 406 | 526 | 2/0-6/1 | 5300 | 78 | 376 | 59 | 513 | 180 | - | 1500 |
| MURSIA | 3/0-19 | 60 | 456 | 576 | 3/0-6/1 | 6620 | 87 | 474 | 74 | 635 | 205 | - | 1300 |
| CERAPUS | 4/0-19 | 60 | 512 | 632 | 2/0-6/1 | 5300 | 98 | 524 | 59 | 681 | 235 | - | 1000 |
| ZUZARA | 4/0-19 | 60 | 512 | 632 | 4/0-6/1 | 8350 | 98 | 598 | 93 | 789 | 235 | - | 1000 |
| COWRY | 336.4-19 | 80 | 646 | 806 | 4/0-6/1 | 8350 | 164 | 834 | 93 | 1091 | 290 | - | 1000 |
| LIMPET | 336.4-19 | 80 | 646 | 806 | 336.4-18/1 | 8680 | 164 | 952 | 50 | 1166 | 290 | - | 1000 |

* 40° C ambient, 75° C conductor temperature; sun and wind'.

| Polyethylene Quadruplex | | | | | | | | | | | | | |
|--------------------------------|--------------------------|-----------------------------|------------------|-------------|--------------------------|-----------------------|--------------------------------|----------|-------|-------|-----------------|------------------|------------|
| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | | Ampacity (Amps) | STANDARD PACKAGE | |
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands | Rated Strength (Lbs.) | Compound | Aluminum | Steel | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | | |
| HACKNEY | 4-7 | 45 | 225 | 315 | 4-6/1 | 1860 | 53 | 157 | 18 | 228 | 80 | 500 | 1700 |
| PALOMINO | 2-7 | 45 | 283 | 373 | 2-6/1 | 2850 | 67 | 250 | 29 | 346 | 105 | - | 1800 |
| COSTENA | 1/0-19 | 60 | 362 | 482 | 1/0-6/1 | 4380 | 104 | 398 | 47 | 549 | 135 | - | 1200 |
| GRULLO | 2/0-19 | 60 | 406 | 526 | 2/0-6/1 | 5300 | 116 | 502 | 59 | 677 | 155 | - | 1500 |
| SUFFOLK | 3/0-19 | 60 | 456 | 576 | 3/0-6/1 | 6620 | 130 | 632 | 74 | 837 | 180 | - | 1300 |
| STALLON | 4/0-7 | 60 | 506 | 626 | 4/0-6/1 | 8350 | 163 | 798 | 93 | 1054 | 205 | - | 1100 |
| APPALOOSA | 4/0-19 | 60 | 512 | 632 | 4/0-6/1 | 8350 | 146 | 798 | 93 | 1037 | 205 | - | 1100 |
| GELDING | 336.4-19 | 80 | 646 | 806 | 4/0-6/1 | 8350 | 246 | 1151 | 93 | 1490 | 240 | - | 1000 |
| BRONCO | 336.4-19 | 80 | 646 | 806 | 336.4-18/1 | 8680 | 246 | 1270 | 50 | 1566 | 240 | - | 1000 |

* 40° C ambient, 75° C conductor temperature; sun and wind'.

- NOTES: 1. See Table 9 of Aluminum Association "Ampacities for Aluminum and ACSR Overhead Electrical Conductors for Additional Cases."
 2. See Table 11 of Aluminum Association "Ampacities for Aluminum and ACSR Overhead Electrical Conductors for Additional Cases."

6201 Neutral

Polyethylene Duplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | Ampacity** (Amps) | STANDARD PACKAGE | |
|-----------|--------------------------|-----------------------------|------------------|-------------|---------------------------|-----------------------|--------------------------------|----------|-------|-------------------|------------------|------------|
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands' | Rated Strength (Lbs.) | Compound | Aluminum | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | |
| VIZSLA | 6-7 | 45 | 178 | 268 | 6-7 | 1110 | 14 | 54 | 68 | 70 | 1000 | 3300 |
| WHIPPET | 4-7 | 45 | 225 | 315 | 4-7 | 1760 | 18 | 85 | 103 | 90 | 1000 | 2400 |

* 1350 equivalent.

** 40° C ambient, 75° conductor temperature; sun and wind'.

Polyethylene Triplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | Ampacity** (Amps) | STANDARD PACKAGE | |
|-----------|--------------------------|-----------------------------|------------------|-------------|---------------------------|-----------------------|--------------------------------|----------|-------|-------------------|------------------|------------|
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands' | Rated Strength (Lbs.) | Compound | Aluminum | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | |
| ARTEMIA | 4-solid | 45 | 204 | 294 | 6-7 | 1110 | 29 | 106 | 135 | 90 | 1000 | 1700 |
| CRAB | 4-7 | 45 | 225 | 315 | 6-7 | 1110 | 35 | 108 | 143 | 90 | 1000 | 1500 |
| BARNACLES | 4-7 | 45 | 225 | 315 | 4-7 | 1760 | 35 | 125 | 160 | 90 | 500 | 1500 |
| SOLASTER | 2-7 | 45 | 283 | 373 | 4-7 | 1760 | 45 | 171 | 216 | 115 | 500 | 1800 |
| SHRIMP | 2-7 | 45 | 283 | 373 | 2-7 | 2800 | 45 | 198 | 243 | 115 | 500 | 1800 |
| SANDCRAB | 1/0-7 | 60 | 357 | 477 | 2-7 | 2800 | 75 | 272 | 347 | 155 | 500 | 1200 |
| ECHINUS | 1/0-19 | 60 | 362 | 482 | 2-7 | 2800 | 70 | 272 | 342 | 155 | 500 | 1200 |
| GAMMARUS | 1/0-7 | 60 | 357 | 477 | 1/0-7 | 4270 | 75 | 316 | 391 | 155 | 500 | 1200 |
| LEDA | 1/0-19 | 60 | 362 | 482 | 1/0-7 | 4270 | 70 | 316 | 384 | 155 | 500 | 1200 |
| DUNGENESE | 2/0-7 | 60 | 401 | 521 | 2/0-7 | 5390 | 85 | 398 | 483 | 180 | - | 1500 |
| CYCLOPS | 2/0-19 | 60 | 406 | 526 | 2/0-7 | 5390 | 78 | 398 | 474 | 180 | - | 1500 |
| KINGCRAB | 4/0-7 | 60 | 506 | 626 | 4/0-7 | 8560 | 109 | 632 | 741 | 235 | - | 1000 |
| ARCA | 4/0-19 | 60 | 512 | 632 | 2/0-7 | 5390 | 98 | 546 | 644 | 235 | - | 1000 |
| LEPAS | 4/0-19 | 60 | 512 | 632 | 4/0-7 | 8560 | 98 | 632 | 728 | 235 | - | 1000 |
| ARGONAUT | 336.4-19 | 80 | 646 | 806 | 4/0-7 | 8560 | 164 | 868 | 1032 | 290 | - | 1000 |
| NAUTILUS | 336.4-19 | 80 | 646 | 806 | 336.4-19 | 13300 | 164 | 1007 | 1171 | 290 | - | 1000 |

* 1350 equivalent.

** 40° C ambient, 75° conductor temperature; sun and wind'.

Polyethylene Quadruplex

| CODE WORD | PHASE CONDUCTORS | | | | BARE NEUTRAL | | NOMINAL WEIGHT (LBS./1000 FT.) | | | Ampacity** (Amps) | STANDARD PACKAGE | |
|--------------|--------------------------|-----------------------------|------------------|-------------|---------------------------|-----------------------|--------------------------------|----------|-------|-------------------|------------------|------------|
| | Size & Number of Strands | Insulation Thickness (Mils) | NOMINAL DIAMETER | | Size & Number of Strands' | Rated Strength (Lbs.) | Compound | Aluminum | Total | | Coil (Ft.) | Reel (Ft.) |
| | | | Bare (Mils) | O.D. (Mils) | | | | | | | | |
| ARABIAN | 4-7 | 45 | 225 | 315 | 4-7 | 1760 | 53 | 164 | 217 | 80 | 500 | 1700 |
| BELGIAN | 2-7 | 45 | 283 | 373 | 2-7 | 2800 | 67 | 261 | 328 | 105 | - | 1800 |
| SHETLAND | 1/0-19 | 60 | 362 | 482 | 1/0-7 | 4270 | 104 | 415 | 519 | 135 | - | 1200 |
| THOROUGHbred | 2/0-19 | 60 | 406 | 526 | 2/0-7 | 5390 | 116 | 523 | 639 | 155 | - | 1500 |
| TROTTER | 3/0-19 | 60 | 456 | 576 | 3/0-7 | 6790 | 130 | 660 | 790 | 180 | - | 1300 |
| WALKING | 4/0-19 | 60 | 512 | 632 | 4/0-7 | 8560 | 146 | 832 | 976 | 205 | - | 1100 |
| EXMOOR | 336.4-19 | 80 | 646 | 806 | 4/0-19 | 8560 | 246 | 1185 | 1428 | 240 | - | 1000 |
| BRETON | 336.4-19 | 80 | 646 | 806 | 336.4-19 | 13300 | 246 | 1324 | 1570 | 240 | - | 1000 |

* 1350 equivalent.

** 40° C ambient, 75° conductor temperature; sun and wind'.

Impedance Data

| Triplex Overhead Service Drop | | | | | |
|--------------------------------------|---------|-------------------------------|--------|--------|-------------------------------------|
| Phase | Neutral | AC RESISTANCE (OHMS/1000 FT.) | | | INDUCTIVE REACTANCE (OHMS/1000 FT.) |
| | | 25° C | 50° C | 75° C | x1 |
| # 6 | # 6 | 0.6725 | 0.7392 | 0.8059 | 0.0298 |
| # 4 | # 6 | 0.4227 | 0.4645 | 0.5064 | 0.0272 |
| # 4 | # 4 | 0.4227 | 0.4645 | 0.5064 | 0.0290 |
| # 2 | # 4 | 0.2655 | 0.2929 | 0.3182 | 0.0262 |
| # 2 | # 2 | 0.2655 | 0.2929 | 0.3182 | 0.0277 |
| 1/0 | # 2 | 0.1671 | 0.1837 | 0.2002 | 0.0223 |
| 1/0 | 1/0 | 0.1671 | 0.1837 | 0.2002 | 0.0256 |
| 2/0 | 2/0 | 0.1326 | 0.1456 | 0.1587 | 0.0252 |
| 3/0 | 3/0 | 0.1053 | 0.1157 | 0.1259 | 0.0251 |
| 4/0 | 4/0 | 0.0835 | 0.0917 | 0.1001 | 0.0249 |
| 336.4 | 4/0 | 0.0527 | 0.0578 | 0.0629 | 0.0241 |
| 336.4 | 336.4 | 0.0527 | 0.0578 | 0.0629 | 0.0255 |

NOTES: Neutral sizes are ACSR or AAAC.
Soil (RHO) Resistivity = 100.

| Quadruplex Overhead Service Drop | | | | | |
|---|---------|-------------------------------|--------|--------|-------------------------------------|
| Phase | Neutral | AC RESISTANCE (OHMS/1000 FT.) | | | Inductive Reactance (Ohms/1000 Ft.) |
| | | 25° C | 50° C | 75° C | |
| #4 | #4 | 0.4227 | 0.4645 | 0.5064 | 0.0290 |
| #2 | #2 | 0.2655 | 0.2929 | 0.3182 | 0.0277 |
| 1/0 | 1/0 | 0.1671 | 0.1837 | 0.2002 | 0.0256 |
| 2/0 | 2/0 | 0.1326 | 0.1456 | 0.1587 | 0.0252 |
| 3/0 | 3/0 | 0.1053 | 0.1157 | 0.1259 | 0.0251 |
| 4/0 | 4/0 | 0.0835 | 0.0917 | 0.1001 | 0.0249 |
| 336.4 | 4/0 | 0.0527 | 0.0578 | 0.0629 | 0.0251 |
| 336.4 | 336.4 | 0.0527 | 0.0578 | 0.0629 | 0.0255 |

NOTES: Neutral sizes are ACSR or AAAC.