

## CSA Control and Power Cable

### 600V and 1000V TC/CIC Multi-conductor Cables

#### Cable Specifications

- CSA C22.2 #230 Type TC
- CSA C22.2 #239 Control and Instrumentation (600V only)
- CSA C22.2 #38 Type TC (1000V only)
- CSA FT4 70,000 BTU Flame Test
- 90°C Dry & Wet
- -40°C Cold Bend, -25°C Cold Impact
- -25°C Installation temp
- Per CEC Part 1, Suitable for use in hazardous locations:  
Class 1 — Zone 2  
Class 2 — Division 2
- Sunlight Resistant/UV Resistant
- Direct Burial

#### To Create a Part Number

Add suffix "S" for Overall Foil Shielding

#### Sample Part Number:

**21500S** = 600V CSA Tray Control Cable  
2-conductor, 14 AWG Bare Copper  
Conductor with XLPE Insulation,  
PVC Jacket, and Overall Foil Shield

#### Color Codes

| No. of Conductors | Color Combination        |
|-------------------|--------------------------|
| 2                 | Black & White            |
| 3                 | Black, Red & Blue        |
| 4                 | Black, Red, Blue & White |
| 5 or more         | Black & Number Coded     |

| No. of Conductors | Part Numbers      |       |                   |       |                   |       |
|-------------------|-------------------|-------|-------------------|-------|-------------------|-------|
|                   | 14 AWG (7 Strand) |       | 12 AWG (7 Strand) |       | 10 AWG (7 Strand) |       |
|                   | 600V              | 1000V | 600V              | 1000V | 600V              | 1000V |
| 2                 | 21500             | 21300 | 21550             | 21350 | 21600             | 21400 |
| 3                 | 21501             | 21301 | 21551             | 21351 | 21601             | 21401 |
| 4                 | 21502             | 21302 | 21552             | 21352 | 21602             | 21402 |
| 5                 | 21503             | 21303 | 21553             | 21353 | 21603             | 21403 |
| 6                 | 21504             | 21304 | 21554             | 21354 | 21604             | 21404 |
| 7                 | 21505             | 21305 | 21555             | 21355 | 21605             | 21405 |
| 8                 | 21506             | 21306 | 21556             | 21356 | 21606             | 21406 |
| 9                 | 21507             | 21307 | 21557             | 21357 | 21607             | 21407 |
| 10                | 21508             | 21308 | 21558             | 21358 | 21608             | 21408 |
| 11                | 21509             | 21309 | 21559             | 21359 | 21609             | 21409 |
| 12                | 21510             | 21310 | 21560             | 21360 | 21610             | 21410 |
| 13                | 21511             | 21311 | 21561             | 21361 | 21611             | 21411 |
| 14                | 21512             | 21312 | 21562             | 21362 | 21612             | 21412 |
| 15                | 21513             | 21313 | 21563             | 21363 | 21613             | 21413 |
| 16                | 21514             | 21314 | 21564             | 21364 | 21614             | 21414 |
| 17                | 21515             | 21315 | 21565             | 21365 | 21615             | 21415 |
| 18                | 21516             | 21316 | 21566             | 21366 | 21616             | 21416 |
| 19                | 21517             | 21317 | 21567             | 21367 | 21617             | 21417 |
| 20                | 21518             | 21318 | 21568             | 21368 | 21618             | 21418 |
| 21                | 21519             | 21319 | 21569             | 21369 | 21619             | 21419 |
| 22                | 21520             | 21320 | 21570             | 21370 | 21620             | 21420 |
| 23                | 21521             | 21321 | 21571             | 21371 | 21621             | 21421 |
| 24                | 21522             | 21322 | 21572             | 21372 | 21622             | 21422 |
| 25                | 21523             | 21323 | 21573             | 21373 | 21623             | 21423 |
| 26                | 21524             | 21324 | 21574             | 21374 | 21624             | 21424 |
| 27                | 21525             | 21325 | 21575             | 21375 | 21625             | 21425 |
| 28                | 21526             | 21326 | 21576             | 21376 | 21626             | 21426 |
| 29                | 21527             | 21327 | 21577             | 21377 | 21627             | 21427 |
| 30                | 21528             | 21328 | 21578             | 21378 | 21628             | 21428 |
| 31                | 21529             | 21329 | 21579             | 21379 | 21629             | 21429 |
| 32                | 21530             | 21330 | 21580             | 21380 | 21630             | 21430 |
| 33                | 21531             | 21331 | 21581             | 21381 | 21631             | 21431 |
| 34                | 21532             | 21332 | 21582             | 21382 | 21632             | 21432 |
| 35                | 21533             | 21333 | 21583             | 21383 | 21633             | 21433 |
| 36                | 21534             | 21334 | 21584             | 21384 | 21634             | 21434 |
| 37                | 21535             | 21335 | 21585             | 21385 | 21635             | 21435 |
| 38                | 21536             | 21336 | 21586             | 21386 | 21636             | 21436 |
| 39                | 21537             | 21337 | 21587             | 21387 | 21637             | 21437 |
| 40                | 21538             | 21338 | 21588             | 21388 | 21638             | 21438 |
| 41                | 21539             | 21339 | 21589             | 21389 | 21639             | 21439 |
| 42                | 21540             | 21340 | 21590             | 21390 | 21640             | 21440 |
| 43                | 21541             | 21341 | 21591             | 21391 | 21641             | 21441 |
| 44                | 21542             | 21342 | 21592             | 21392 | 21642             | 21442 |
| 45                | 21543             | 21343 | 21593             | 21393 | 21643             | 21443 |
| 46                | 21544             | 21344 | 21594             | 21394 | 21644             | 21444 |
| 47                | 21545             | 21345 | 21595             | 21395 | 21645             | 21445 |
| 48                | 21546             | 21346 | 21596             | 21396 | 21646             | 21446 |
| 49                | 21547             | 21347 | 21597             | 21397 | 21647             | 21447 |
| 50                | 21548             | 21348 | 21598             | 21398 | 21648             | 21448 |

| No. of Cond. | Part Numbers     |       |                  |       |                  |       |                  |       |                  |       |
|--------------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|
|              | 8 AWG (7 Strand) |       | 6 AWG (7 Strand) |       | 4 AWG (7 Strand) |       | 3 AWG (7 Strand) |       | 2 AWG (7 Strand) |       |
|              | 600V             | 1000V | 600V             | 1000V | 600V             | 1000V | 600V             | 1000V | 600V             | 1000V |
| 2            | 21650            | 21450 | 21653            | 21453 | 21656            | 21456 | 21659            | 21459 | 21662            | 21462 |
| 3            | 21651            | 21451 | 21654            | 21454 | 21657            | 21457 | 21660            | 21460 | 21663            | 21463 |
| 4            | 21652            | 21452 | 21655            | 21455 | 21658            | 21458 | 21661            | 21461 | 21664            | 21464 |

| No. of Cond. | Part Numbers      |       |                     |       |                     |       |                     |       |                     |       |
|--------------|-------------------|-------|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|-------|
|              | 1 AWG (19 Strand) |       | 1/0 AWG (19 Strand) |       | 2/0 AWG (19 Strand) |       | 3/0 AWG (19 Strand) |       | 4/0 AWG (19 Strand) |       |
|              | 600V              | 1000V | 600V                | 1000V | 600V                | 1000V | 600V                | 1000V | 600V                | 1000V |
| 2            | 21665             | 21465 | 21668               | 21468 | 21671               | 21471 | 21674               | 21474 | 21677               | 21477 |
| 3            | 21666             | 21466 | 21669               | 21469 | 21672               | 21472 | 21675               | 21475 | 21678               | 21478 |
| 4            | 21667             | 21467 | 21670               | 21470 | 21673               | 21473 | 21676               | 21476 | 21679               | 21479 |

## CSA Control Cable

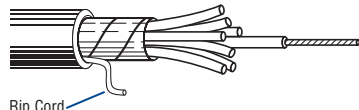
### 600V CIC Multi-conductor Cables

| Description | Part Number | No. of Cond. | Cable Weight    |       | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|-------------|-------------|--------------|-----------------|-------|----------------------|----|------------------|----|------------|----|
|             |             |              | Lbs. / 1000 Ft. | kg/km | Inch                 | mm | Inch             | mm | Inch       | mm |

#### 14 AWG Stranded (7x22) Bare Copper Conductors

##### Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)

|  |       |    |     |     |      |     |      |      |      |       |
|--|-------|----|-----|-----|------|-----|------|------|------|-------|
| CSA C22.2#131, Type CIC                                | 22100 | 2  | 62  | 92  | .030 | .76 | .045 | 1.14 | .367 | 9.32  |
| CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test | 22101 | 3  | 81  | 121 | .030 | .76 | .045 | 1.14 | .388 | 9.86  |
|  | 22102 | 4  | 101 | 150 | .030 | .76 | .045 | 1.14 | .423 | 10.74 |
|  | 22103 | 5  | 122 | 182 | .030 | .76 | .045 | 1.14 | .462 | 11.74 |
|  | 22104 | 6  | 143 | 213 | .030 | .76 | .045 | 1.14 | .504 | 12.80 |
|  | 22105 | 7  | 160 | 238 | .030 | .76 | .045 | 1.14 | .504 | 12.80 |
|  | 22106 | 8  | 197 | 293 | .030 | .76 | .060 | 1.52 | .576 | 14.63 |
|  | 22107 | 9  | 220 | 327 | .030 | .76 | .060 | 1.52 | .618 | 15.70 |
|  | 22108 | 10 | 226 | 336 | .030 | .76 | .060 | 1.52 | .669 | 17.00 |
|  | 22110 | 12 | 279 | 415 | .030 | .76 | .060 | 1.52 | .689 | 17.50 |
|  | 22114 | 16 | 357 | 531 | .030 | .76 | .060 | 1.52 | .764 | 19.41 |
|  | 22118 | 20 | 467 | 695 | .030 | .76 | .080 | 2.03 | .886 | 22.50 |



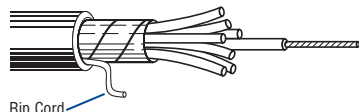
Rip Cord

-25°C Installed  
-40°C to +90°C (Dry) (75°C Wet)

#### 12 AWG Stranded (7x20) Bare Copper Conductors

##### Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)

|  |       |    |     |     |      |     |      |      |      |       |
|--|-------|----|-----|-----|------|-----|------|------|------|-------|
| CSA C22.2#131, Type CIC                                | 22120 | 2  | 82  | 122 | .030 | .76 | .045 | 1.14 | .405 | 10.29 |
| CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test | 22121 | 3  | 109 | 162 | .030 | .76 | .045 | 1.14 | .429 | 10.90 |
|  | 22122 | 4  | 140 | 208 | .030 | .76 | .045 | 1.14 | .469 | 11.91 |
|  | 22123 | 5  | 170 | 253 | .030 | .76 | .045 | 1.14 | .515 | 13.08 |
|  | 22124 | 6  | 214 | 319 | .030 | .76 | .060 | 1.52 | .591 | 15.01 |
|  | 22125 | 7  | 240 | 357 | .030 | .76 | .060 | 1.52 | .591 | 15.01 |
|  | 22126 | 8  | 270 | 402 | .030 | .76 | .060 | 1.52 | .639 | 16.23 |
|  | 22127 | 9  | 302 | 449 | .030 | .76 | .060 | 1.52 | .687 | 17.45 |
|  | 22128 | 10 | 336 | 500 | .030 | .76 | .060 | 1.52 | .745 | 18.92 |
|  | 22130 | 12 | 390 | 580 | .030 | .76 | .060 | 1.52 | .768 | 19.51 |
|  | 22134 | 16 | 584 | 869 | .030 | .76 | .080 | 2.03 | .893 | 22.68 |
|  | 22138 | 20 | 655 | 975 | .030 | .76 | .080 | 2.03 | .992 | 25.20 |



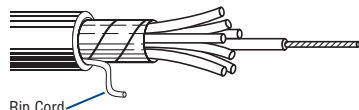
Rip Cord

-25°C Installed  
-40°C to +90°C (Dry) (75°C Wet)

#### 10 AWG Stranded (7x18) Bare Copper Conductors

##### Cross-linked Polyethylene Insulation • Black PVC Jacket (Color Code: Black and Numbered)

|  |       |    |     |      |      |     |      |      |       |       |
|--|-------|----|-----|------|------|-----|------|------|-------|-------|
| CSA C22.2#131, Type CIC                                | 22140 | 2  | 148 | 220  | .030 | .76 | .045 | 1.14 | .736  | 18.69 |
| CSA C22.2#0.3, Clause 4.31 Low Acid Gas FT4 Flame Test | 22141 | 3  | 189 | 281  | .030 | .76 | .045 | 1.14 | .763  | 19.38 |
|  | 22142 | 4  | 248 | 369  | .030 | .76 | .060 | 1.52 | .839  | 21.31 |
|  | 22143 | 5  | 293 | 436  | .030 | .76 | .060 | 1.52 | .891  | 22.63 |
|  | 22144 | 6  | 338 | 503  | .030 | .76 | .060 | 1.52 | .944  | 23.98 |
|  | 22145 | 7  | 378 | 563  | .030 | .76 | .060 | 1.52 | .944  | 23.98 |
|  | 22146 | 8  | 424 | 631  | .030 | .76 | .060 | 1.52 | .999  | 25.38 |
|  | 22147 | 9  | 469 | 698  | .030 | .76 | .060 | 1.52 | 1.074 | 27.28 |
|  | 22148 | 10 | 548 | 816  | .030 | .76 | .080 | 2.03 | 1.182 | 30.02 |
|  | 22150 | 12 | 631 | 939  | .030 | .76 | .080 | 2.03 | 1.209 | 30.71 |
|  | 22152 | 14 | 717 | 1067 | .030 | .76 | .080 | 2.03 | 1.255 | 31.88 |
|  | 22154 | 16 | 805 | 1198 | .030 | .76 | .080 | 2.03 | 1.307 | 33.20 |



Rip Cord

-25°C Installed  
-40°C to +90°C (Dry) (75°C Wet)

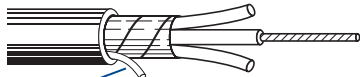
**CSA Control Cable**

## 600V CIC Multi-conductor Cables

| Description | Part Number | No. of Cond. | Cable Weight  |       | Insulation Thickness |    | Jacket Thickness |    | Nominal OD |    |
|-------------|-------------|--------------|---------------|-------|----------------------|----|------------------|----|------------|----|
|             |             |              | Lbs./1000 Ft. | kg/km | Inch                 | mm | Inch             | mm | Inch       | mm |

**8 AWG** Stranded (7x16) Bare Copper Conductors**Cross-linked Polyethylene Insulation • Black PVC Jacket** (Color Code: Black and Numbered)

|   |              |   |     |     |      |      |      |      |      |       |
|---|--------------|---|-----|-----|------|------|------|------|------|-------|
| CSA C22.2#131, Type CIC                                   | <b>22160</b> | 2 | 240 | 357 | .045 | 1.14 | .060 | 1.52 | .863 | 21.92 |
| CSA C22.2#0.3, Clause 4.31 Low Acid Gas<br>FT4 Flame Test | <b>22161</b> | 3 | 308 | 458 | .045 | 1.14 | .060 | 1.52 | .898 | 22.81 |
|   | <b>22162</b> | 4 | 379 | 564 | .045 | 1.14 | .060 | 1.52 | .957 | 24.31 |



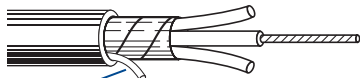
Rip Cord

-25°C Installed

-40°C to +90°C (Dry) (75°C Wet)

**6 AWG** Stranded (7x14) Bare Copper Conductors**Cross-linked Polyethylene Insulation • Black PVC Jacket** (Color Code: Black and Numbered)

|   |              |   |     |     |      |      |      |      |      |       |
|---|--------------|---|-----|-----|------|------|------|------|------|-------|
| CSA C22.2#131, Type CIC                                   | <b>22170</b> | 2 | 279 | 415 | .060 | 1.52 | .060 | 1.52 | .711 | 18.06 |
| CSA C22.2#0.3, Clause 4.31 Low Acid Gas<br>FT4 Flame Test | <b>22171</b> | 3 | 383 | 570 | .060 | 1.52 | .060 | 1.52 | .756 | 19.20 |



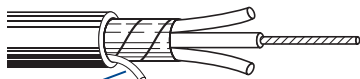
Rip Cord

-25°C Installed

-40°C to +90°C (Dry) (75°C Wet)

**4 AWG** Stranded (7x12) Bare Copper Conductors**Cross-linked Polyethylene Insulation • Black PVC Jacket** (Color Code: Black and Numbered)

|   |              |   |     |     |      |      |      |      |      |       |
|---|--------------|---|-----|-----|------|------|------|------|------|-------|
| CSA C22.2#131, Type CIC                                   | <b>22180</b> | 2 | 390 | 580 | .060 | 1.52 | .060 | 1.52 | .800 | 20.32 |
| CSA C22.2#0.3, Clause 4.31 Low Acid Gas<br>FT4 Flame Test | <b>22181</b> | 3 | 580 | 863 | .060 | 1.52 | .080 | 2.03 | .891 | 22.63 |



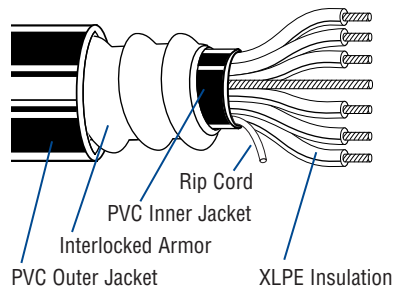
Rip Cord

-25°C Installed

-40°C to +90°C (Dry) (75°C Wet)

## CSA Control Cable

### 600V ACIC and Teck90 Cables — Overview



#### Introduction

Belden® Teck90 and ACIC cables are designed to meet demanding industrial needs by combining rugged durability and corrosion resistance with flexibility and easy handling.

Teck90 and ACIC Cables are available in a wide range of in-stock and custom constructions to meet the needs of pulp and paper, chemical, petroleum and other demanding industrial and resource industry environments. They are ideal for use in wet or dry areas; ventilated, non-ventilated or ladder-type cable troughs; ventilated flexible cableways; and for direct burial.

Belden Teck90 Cable is marked with “FT4,” “HL” designations, and cable constructions are certified to CSA Standard C22.2#131 and C22.2#174 for use in a wide range of hazardous locations. Both inner and outer jackets meet the acid gas evolution requirement of 14% maximum required by CSA Standard C22.2#0.3 Clause 4.31.

Custom cables are available upon request.

#### Construction

Class B stranded bare copper conductors, cross-link polyethylene insulation, bare copper ground wire, PVC inner jacket, aluminum steel interlocking armor, PVC outer jacket.

- Galvanized steel interlocking armor available as an option.

#### Voltage Rating

18 to 16 AWG — 600V ACIC

14 to 8 AWG — 600 Volts

14 to 4/0 AWG — 1000 Volts

#### Temperature Rating

-40°C to 90°C (Dry/Wet)

-25°C installed

#### Application

Teck90 and ACIC are general-purpose cables used in the pulp and paper, mining, petroleum and chemical industries as well as in commercial buildings.

Teck90 and ACIC may be used under the following conditions:

- Exposed or concealed wiring in dry or wet conditions
- In ventilated, non-ventilated or ladder-type cable trays in dry or wet conditions
- On walls or beams
- Directly buried
- CEC Class I, Division I locations

#### Minimum Bending Radius

12 times the overall cable diameter

#### Pulling Tensions

The combined use of Kellems grips and pulling eyes is recommended.

#### Design Advantages

##### Insulation Properties

- High tensile strength
- Impact- and crush-resistant
- Heat-resistant
- Excellent elongation
- Moisture-resistant
- Good low temperature properties

##### Electrical Properties

- High insulation resistance
- Low dielectric loss
- High dielectric strength

##### Other Features

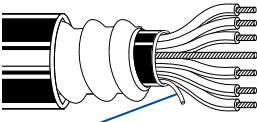
- Corrosion-resistant
- Versatile and flexible
- Provides cost savings as conduit and ducts are not required
- ACIC has a blue jacket
- Rip cord for inner jacket

#### Specifications

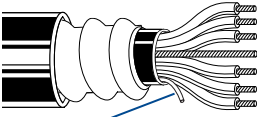
- CSA Standard C22.2#131
- CSA Standard C22.2#174 “Cables and Cable Glands for Use in Hazardous Locations”
- CSA Standard C22.2#0.3 Clause 4.31 “Low Acid Gas”
- CSA Standard C22.2#0.3 Clause 4.11.4 “Cables with FT4 Marking”

**CSA Control Cable**

## 600V ACIC Cables

| Description  | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |       | Armor OD |       | Outer Jacket |       | Maximum Pull Tension |      | Minimum Bend Radius |        |
|--|----------|--------------|---------------|-------|-----------------|-------|----------|-------|--------------|-------|----------------------|------|---------------------|--------|
|  |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm    | Inch     | mm    | Inch         | mm    | Lbs.                 | N    | Inch                | mm     |
| <b>18 AWG Stranded (7x26) Bare Copper Conductors • 18 AWG Bare Copper Ground Wire</b>                        |          |              |               |       |                 |       |          |       |              |       |                      |      |                     |        |
| <b>Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Blue PVC Outer Jacket</b> |          |              |               |       |                 |       |          |       |              |       |                      |      |                     |        |
| CSA C22.2#239<br>FT4 Flame Test  | 29030    | 2            | 163           | 243   | .32             | 8.13  | .52      | 13.21 | .62          | 15.75 | 44                   | 196  | 7.4                 | 187.96 |
| <br>Rip Cord                 | 29031    | 3            | 177           | 263   | .34             | 8.64  | .54      | 13.72 | .64          | 16.26 | 66                   | 294  | 7.6                 | 193.04 |
|  | 29032    | 4            | 195           | 290   | .37             | 9.40  | .57      | 14.48 | .67          | 17.02 | 88                   | 392  | 8.0                 | 203.20 |
|  | 29033    | 5            | 219           | 326   | .41             | 10.41 | .61      | 15.49 | .71          | 18.03 | 110                  | 490  | 8.5                 | 215.90 |
|  | 29034    | 6            | 239           | 356   | .45             | 11.43 | .65      | 16.51 | .75          | 19.05 | 132                  | 587  | 9.0                 | 228.60 |
|  | 29035    | 7            | 245           | 365   | .45             | 11.43 | .65      | 16.51 | .75          | 19.05 | 154                  | 685  | 9.0                 | 228.60 |
|  | 29036    | 8            | 266           | 396   | .48             | 12.19 | .68      | 17.27 | .78          | 19.81 | 176                  | 783  | 9.3                 | 236.22 |
|  | 29038    | 10           | 331           | 493   | .56             | 14.22 | .76      | 19.30 | .87          | 22.10 | 220                  | 979  | 10.6                | 269.24 |
|  | 29040    | 12           | 353           | 525   | .62             | 15.75 | .82      | 20.83 | .93          | 23.62 | 264                  | 1175 | 11.1                | 281.94 |
|  | 29043    | 15           | 401           | 597   | .65             | 16.51 | .85      | 21.59 | .96          | 24.38 | 330                  | 1469 | 11.5                | 292.10 |
|  | 29048    | 20           | 466           | 694   | .73             | 18.54 | .93      | 23.62 | 1.04         | 26.42 | 440                  | 1958 | 12.4                | 314.96 |
| HAZ LOC<br>CSA C22.2#0.3 Clause 4.31 Low Acid Gas  | 29053    | 25           | 589           | 877   | .79             | 20.07 | 1.05     | 26.67 | 1.16         | 29.46 | 550                  | 2448 | 13.9                | 353.06 |
|  | 29058    | 30           | 698           | 1039  | .88             | 22.35 | 1.14     | 28.96 | 1.25         | 31.75 | 660                  | 2937 | 15.0                | 381.00 |
|  | 29068    | 40           | 827           | 1231  | .97             | 24.64 | 1.23     | 31.24 | 1.35         | 34.29 | 880                  | 3916 | 16.2                | 411.48 |
| 29078  | 50       | 965          | 1436          | 1.09  | 27.69           | 1.35  | 34.29    | 1.47  | 37.34        | 1100  | 4895                 | 17.6 | 447.04              |        |

**16 AWG Stranded (7x24) Bare Copper Conductors • 16 AWG Bare Copper Ground Wire**

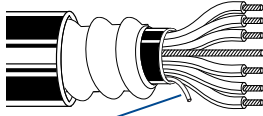
| Description  | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |       | Armor OD |       | Outer Jacket |       | Maximum Pull Tension |      | Minimum Bend Radius |        |
|--|----------|--------------|---------------|-------|-----------------|-------|----------|-------|--------------|-------|----------------------|------|---------------------|--------|
|  |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm    | Inch     | mm    | Inch         | mm    | Lbs.                 | N    | Inch                | mm     |
| <b>16 AWG Stranded (7x24) Bare Copper Conductors • 16 AWG Bare Copper Ground Wire</b>                        |          |              |               |       |                 |       |          |       |              |       |                      |      |                     |        |
| <b>Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Blue PVC Outer Jacket</b> |          |              |               |       |                 |       |          |       |              |       |                      |      |                     |        |
| CSA C22.2#239<br>FT4 Flame Test  | 29017    | 2            | 202           | 301   | .34             | 8.64  | .54      | 13.72 | .65          | 16.51 | 70                   | 312  | 7.7                 | 195.58 |
| <br>Rip Cord               | 29004    | 3            | 221           | 329   | .36             | 9.14  | .56      | 14.22 | .66          | 16.76 | 105                  | 467  | 7.9                 | 200.66 |
|  | 29018    | 4            | 242           | 360   | .39             | 9.91  | .59      | 14.99 | .70          | 17.78 | 140                  | 623  | 8.3                 | 210.82 |
|  | 29019    | 5            | 264           | 393   | .42             | 10.67 | .62      | 15.75 | .73          | 18.54 | 175                  | 779  | 8.6                 | 218.44 |
|  | 29005    | 6            | 292           | 435   | .46             | 11.68 | .66      | 16.76 | .77          | 19.56 | 210                  | 935  | 9.1                 | 231.14 |
|  | 29020    | 7            | 314           | 467   | .47             | 11.94 | .67      | 17.02 | .77          | 19.56 | 245                  | 1090 | 9.2                 | 233.68 |
|  | 29021    | 8            | 364           | 542   | .50             | 12.70 | .70      | 17.78 | .80          | 20.32 | 280                  | 1246 | 9.6                 | 243.84 |
|  | 29022    | 10           | 412           | 613   | .61             | 15.49 | .81      | 20.57 | .92          | 23.37 | 350                  | 1558 | 10.9                | 276.86 |
|  | 29006    | 12           | 441           | 656   | .63             | 16.00 | .83      | 21.08 | .94          | 23.88 | 420                  | 1869 | 11.2                | 284.48 |
|  | 29023    | 15           | 502           | 748   | .68             | 17.27 | .88      | 22.35 | 1.00         | 25.40 | 525                  | 2336 | 11.9                | 302.26 |
|  | 29007    | 20           | 636           | 947   | .77             | 19.56 | 1.03     | 26.16 | 1.13         | 28.70 | 700                  | 3115 | 13.7                | 347.98 |
| HAZ LOC<br>CSA C22.2#0.3 Clause 4.31 Low Acid Gas  | 29024    | 25           | 845           | 1258  | .89             | 22.61 | 1.15     | 29.21 | 1.26         | 32.00 | 875                  | 3894 | 15.1                | 383.54 |
|  | 29008    | 30           | 922           | 1372  | .94             | 23.88 | 1.20     | 30.48 | 1.30         | 33.02 | 1050                 | 4673 | 15.8                | 401.32 |
|  | 29009    | 40           | 1109          | 1650  | 1.06            | 26.92 | 1.32     | 33.53 | 1.41         | 35.81 | 1400                 | 6230 | 17.3                | 439.42 |
|  | 29016    | 50           | 1306          | 1944  | 1.19            | 30.23 | 1.45     | 36.83 | 1.54         | 39.12 | 1750                 | 7788 | 18.8                | 477.52 |
|  | 29025    | 60           | 1390          | 2070  | 1.27            | 32.26 | 1.53     | 38.86 | 1.66         | 42.16 | 2100                 | 9345 | 19.9                | 505.46 |

XLPE = Cross-linked Polyethylene

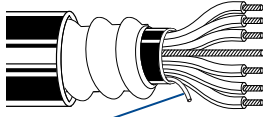
Color Code: #1 conductor is white; remaining conductors are black with number coding. Other color codes available upon request.

**CSA Control Cable**

## 600V Teck90 Cables

| Description  | Part No.     | No. of Cond. | Cable Weight  |       | Inner Jacket OD |       | Armor OD |       | Outer Jacket |       | Maximum Pull Tension |       | Minimum Bend Radius |        |
|--|--------------|--------------|---------------|-------|-----------------|-------|----------|-------|--------------|-------|----------------------|-------|---------------------|--------|
|  |              |              | Lbs./1000 Ft. | kg/km | Inch            | mm    | Inch     | mm    | Inch         | mm    | Lbs.                 | N     | Inch                | mm     |
| <b>14 AWG Stranded (7x22) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire</b>  |              |              |               |       |                 |       |          |       |              |       |                      |       |                     |        |
| <b>Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket</b>                    |              |              |               |       |                 |       |          |       |              |       |                      |       |                     |        |
| CSA C22.2#131<br>FT4 Flame Test<br><br>Rip Cord | <b>C5500</b> | 2            | 198           | 296   | .36             | 9.14  | .56      | 14.22 | .66          | 16.76 | 108                  | 481   | 7.8                 | 198.12 |
|  | <b>C5501</b> | 3            | 222           | 331   | .39             | 9.91  | .58      | 14.73 | .66          | 16.76 | 162                  | 721   | 8.2                 | 208.28 |
|  | <b>C5502</b> | 4            | 251           | 375   | .42             | 10.67 | .62      | 15.75 | .71          | 18.03 | 216                  | 961   | 8.5                 | 215.90 |
|  | <b>C5503</b> | 5            | 284           | 424   | .47             | 11.94 | .66      | 16.76 | .74          | 18.80 | 270                  | 1202  | 9.0                 | 228.60 |
|  | <b>C5504</b> | 6            | 317           | 473   | .51             | 12.95 | .70      | 17.78 | .78          | 19.81 | 324                  | 1442  | 9.5                 | 241.30 |
|  | <b>C5505</b> | 7            | 331           | 494   | .51             | 12.95 | .70      | 17.78 | .78          | 19.81 | 378                  | 1682  | 9.5                 | 241.30 |
|  | <b>C5506</b> | 8            | 414           | 618   | .58             | 14.73 | .77      | 19.56 | .86          | 21.84 | 432                  | 1922  | 10.4                | 264.16 |
|  | <b>C5508</b> | 10           | 510           | 761   | .67             | 17.02 | .93      | 23.62 | .95          | 24.13 | 540                  | 2403  | 12.3                | 312.42 |
|  | <b>C5510</b> | 12           | 551           | 822   | .69             | 17.53 | .95      | 24.13 | .97          | 24.64 | 648                  | 2884  | 12.6                | 320.04 |
|  | <b>C5513</b> | 15           | 636           | 949   | .77             | 19.56 | 1.03     | 26.16 | 1.11         | 28.19 | 810                  | 3605  | 14.1                | 358.14 |
|  | <b>C5518</b> | 20           | 810           | 1209  | .90             | 22.86 | 1.16     | 29.46 | 1.24         | 31.50 | 1080                 | 4806  | 15.1                | 383.54 |
|  | <b>C5523</b> | 25           | 948           | 1415  | .90             | 22.86 | 1.24     | 31.50 | 1.33         | 33.78 | 1350                 | 6008  | 16.1                | 408.94 |
|  | <b>C5528</b> | 30           | 1047          | 1563  | 1.05            | 26.67 | 1.30     | 33.02 | 1.40         | 35.56 | 1620                 | 7209  | 16.8                | 426.72 |
|  | <b>C5529</b> | 40           | 1310          | 1955  | 1.20            | 30.48 | 1.42     | 36.07 | 1.51         | 38.35 | 2160                 | 9612  | 18.3                | 464.82 |
| HAZ LOC<br>CSA C22.2#0.3 Clause 4.31 Low Acid Gas  | <b>C6064</b> | 50           | 1620          | 2418  | 1.35            | 34.29 | 1.60     | 40.64 | 1.66         | 42.16 | 2700                 | 12015 | 20.5                | 520.70 |

**12 AWG Stranded (7x20) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire**

| Description  | Part No.  | No. of Cond. | Cable Weight  |       | Inner Jacket OD |       | Armor OD |       | Outer Jacket |       | Maximum Pull Tension |      | Minimum Bend Radius |        |        |
|--|---|--------------|---------------|-------|-----------------|-------|----------|-------|--------------|-------|----------------------|------|---------------------|--------|--------|
|  |   |              | Lbs./1000 Ft. | kg/km | Inch            | mm    | Inch     | mm    | Inch         | mm    | Lbs.                 | N    | Inch                | mm     |        |
| <b>12 AWG Stranded (7x20) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire</b>  |   |              |               |       |                 |       |          |       |              |       |                      |      |                     |        |        |
| <b>Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket</b>                      |   |              |               |       |                 |       |          |       |              |       |                      |      |                     |        |        |
| CSA C22.2#131<br>FT4 Flame Test<br><br>Rip Cord | <b>C5530</b>                                      | 2            | 225           | 336   | .41             | 10.41 | .60      | 15.24 | .69          | 17.53 | 172                  | 765  | 8.3                 | 210.82 |        |
|  | <b>C5531</b>                                      | 3            | 261           | 390   | .43             | 10.92 | .62      | 15.75 | .70          | 17.78 | 258                  | 1148 | 8.6                 | 218.44 |        |
|  | <b>C5532</b>                                      | 4            | 301           | 449   | .47             | 11.94 | .66      | 16.76 | .73          | 18.54 | 344                  | 1531 | 9.1                 | 231.14 |        |
|  | <b>C5533</b>                                      | 5            | 348           | 519   | .52             | 13.21 | .71      | 18.03 | .78          | 19.81 | 430                  | 1914 | 9.1                 | 231.14 |        |
|  | <b>C5534</b>                                      | 6            | 435           | 649   | .59             | 14.99 | .78      | 19.81 | .86          | 21.84 | 516                  | 2296 | 10.5                | 266.70 |        |
|  | <b>C5535</b>                                      | 7            | 450           | 672   | .59             | 14.99 | .78      | 19.81 | .86          | 21.84 | 602                  | 2679 | 10.5                | 266.70 |        |
|  | <b>C5536</b>                                      | 8            | 506           | 755   | .64             | 16.26 | .83      | 21.08 | .92          | 23.37 | 688                  | 3062 | 11.1                | 281.94 |        |
|  | <b>C5538</b>                                      | 10           | 633           | 945   | .75             | 19.05 | 1.01     | 25.65 | 1.02         | 25.91 | 860                  | 3827 | 13.3                | 337.82 |        |
|  | <b>C5540</b>                                      | 12           | 696           | 1039  | .77             | 19.56 | 1.03     | 26.16 | 1.12         | 28.45 | 1032                 | 4592 | 13.5                | 342.90 |        |
|  | <b>C5543</b>                                      | 15           | 823           | 1228  | .90             | 22.86 | 1.16     | 29.46 | 1.24         | 31.50 | 1290                 | 5741 | 15.1                | 383.54 |        |
|  | <b>C5548</b>                                      | 20           | 1035          | 1545  | .99             | 25.15 | 1.25     | 31.75 | 1.34         | 34.04 | 1720                 | 7654 | 16.5                | 419.10 |        |
|  | <b>C5553</b>                                      | 25           | 1230          | 1836  | 1.10            | 27.94 | 1.36     | 34.54 | 1.45         | 36.83 | 2150                 | 9568 | 17.6                | 447.04 |        |
|  | HAZ LOC<br>CSA C22.2#0.3 Clause 4.31 Low Acid Gas | <b>C5558</b> | 30            | 1390  | 2075            | 1.20  | 30.48    | 1.46  | 37.08        | 1.51  | 38.35                | 2580 | 11481               | 17.6   | 447.04 |

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
 3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
 4 conductors — Black, Red, Blue, White  
 5 or more conductors — Black and numbered

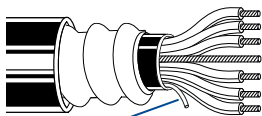
**CSA Control Cable**

## 600V Teck90 Cables

| Description | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |    | Armor OD |    | Outer Jacket |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|---------------|-------|-----------------|----|----------|----|--------------|----|----------------------|---|---------------------|----|
|             |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm | Inch     | mm | Inch         | mm | Lbs.                 | N | Inch                | mm |

**10 AWG Stranded (7x18) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .030" (.76mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131  
FT4 Flame Test



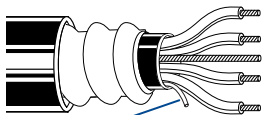
Rip Cord

|              |    |      |      |      |       |      |       |      |       |      |       |      |        |
|--------------|----|------|------|------|-------|------|-------|------|-------|------|-------|------|--------|
| <b>C5560</b> | 2  | 278  | 415  | .48  | 12.19 | .66  | 16.76 | .72  | 18.29 | 296  | 1317  | 8.9  | 226.06 |
| <b>C5561</b> | 3  | 327  | 488  | .50  | 12.70 | .70  | 17.78 | .75  | 19.05 | 444  | 1976  | 9.2  | 233.68 |
| <b>C5562</b> | 4  | 405  | 604  | .57  | 14.48 | .77  | 19.56 | .79  | 20.07 | 592  | 2634  | 10.1 | 256.64 |
| <b>C5563</b> | 5  | 487  | 727  | .63  | 16.00 | .83  | 21.08 | .93  | 23.62 | 740  | 3293  | 11.5 | 292.10 |
| <b>C5564</b> | 6  | 556  | 830  | .68  | 17.27 | .88  | 22.35 | .93  | 23.62 | 888  | 3952  | 11.5 | 292.10 |
| <b>C5565</b> | 7  | 627  | 936  | .69  | 17.53 | .89  | 22.61 | .99  | 25.15 | 1036 | 4610  | 11.8 | 299.72 |
| <b>C5566</b> | 8  | 739  | 1103 | .74  | 18.80 | .94  | 23.88 | 1.00 | 25.40 | 1184 | 5269  | 12.4 | 314.96 |
| <b>C5568</b> | 10 | 964  | 1439 | .84  | 21.34 | 1.10 | 27.94 | 1.24 | 31.50 | 1480 | 6586  | 14.4 | 365.76 |
| <b>C5570</b> | 12 | 1067 | 1593 | .93  | 23.62 | 1.19 | 30.23 | 1.26 | 32.00 | 1776 | 7903  | 15.6 | 396.24 |
| <b>C5573</b> | 15 | 1297 | 1936 | .99  | 25.15 | 1.25 | 31.75 | 1.37 | 34.80 | 2220 | 9879  | 16.3 | 414.02 |
| <b>C5578</b> | 20 | 1546 | 2307 | 1.13 | 28.70 | 1.39 | 35.31 | 1.47 | 37.34 | 2960 | 13172 | 16.9 | 429.26 |
| <b>C5579</b> | 25 | 1802 | 2690 | 1.26 | 32.00 | 1.52 | 38.61 | 1.60 | 40.64 | 3700 | 16465 | 19.7 | 500.38 |
| <b>C5580</b> | 30 | 2142 | 3197 | 1.34 | 34.04 | 1.60 | 40.64 | 1.66 | 42.16 | 4440 | 19758 | 20.6 | 523.24 |

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

**8 AWG Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

CSA C22.2#131  
FT4 Flame Test



Rip Cord

|              |   |     |     |     |       |     |       |     |       |     |      |      |        |
|--------------|---|-----|-----|-----|-------|-----|-------|-----|-------|-----|------|------|--------|
| <b>C5583</b> | 2 | 407 | 607 | .59 | 14.99 | .78 | 19.81 | .86 | 21.84 | 384 | 1709 | 10.6 | 269.24 |
| <b>C5581</b> | 3 | 471 | 703 | .63 | 16.00 | .83 | 21.08 | .90 | 22.86 | 576 | 2563 | 10.8 | 274.32 |
| <b>C5582</b> | 4 | 606 | 904 | .69 | 17.53 | .89 | 22.61 | .97 | 24.64 | 768 | 3418 | 12.5 | 317.50 |

Dual Rated 600V, 1000V  
HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (if required, a Red conductor can be used in place of White.)  
3 conductors — Black, Red, Blue (if required, a White conductor can be used in place of Blue.)  
4 conductors — Black, Red, Blue, White  
5 or more conductors — Black and numbered

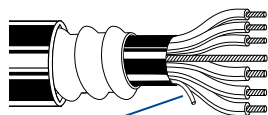
**CSA Control Cable****600V Teck90 Cables**

| Description | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |    | Armor OD |    | Outer Jacket |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|---------------|-------|-----------------|----|----------|----|--------------|----|----------------------|---|---------------------|----|
|             |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm | Inch     | mm | Inch         | mm | Lbs.                 | N | Inch                | mm |

**Composite 14 AWG Stranded (7x22) and 12 AWG Stranded (7x20) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire**

**Aluminum Interlocked Armor • .031" (.79mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                                 |             |                |     |     |      |       |     |       |     |       |     |      |     |        |
|---------------------------------|-------------|----------------|-----|-----|------|-------|-----|-------|-----|-------|-----|------|-----|--------|
| CSA C22.2#131<br>FT4 Flame Test | <b>6054</b> | 3c/14<br>3c/12 | 369 | 549 | .560 | 14.22 | .75 | 19.05 | .89 | 22.61 | 424 | 1886 | 8.4 | 213.36 |
|---------------------------------|-------------|----------------|-----|-----|------|-------|-----|-------|-----|-------|-----|------|-----|--------|



Rip Cord

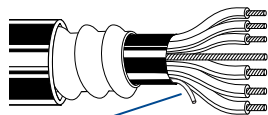
HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

**Composite 14 AWG Stranded (7x22) and 10 AWG Stranded (7x18) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire**

**Aluminum Interlocked Armor • .031" (.79mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                                 |             |                |     |     |      |       |     |       |     |       |     |      |     |        |
|---------------------------------|-------------|----------------|-----|-----|------|-------|-----|-------|-----|-------|-----|------|-----|--------|
| CSA C22.2#131<br>FT4 Flame Test | <b>6051</b> | 3c/14<br>3c/10 | 432 | 643 | .600 | 15.24 | .82 | 20.83 | .92 | 23.37 | 608 | 2705 | 9.0 | 228.60 |
|---------------------------------|-------------|----------------|-----|-----|------|-------|-----|-------|-----|-------|-----|------|-----|--------|



Rip Cord

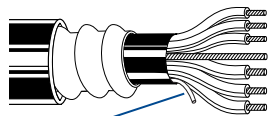
HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

**Composite 14 AWG Stranded (7x22) and 8 AWG Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire**

**Aluminum Interlocked Armor • .046" (1.17mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                                 |             |               |     |     |      |       |     |       |     |       |      |      |     |        |
|---------------------------------|-------------|---------------|-----|-----|------|-------|-----|-------|-----|-------|------|------|-----|--------|
| CSA C22.2#131<br>FT4 Flame Test | <b>6059</b> | 3c/14<br>3c/8 | 608 | 905 | .700 | 17.78 | .89 | 22.51 | .98 | 24.92 | 1160 | 5160 | 9.8 | 248.92 |
|---------------------------------|-------------|---------------|-----|-----|------|-------|-----|-------|-----|-------|------|------|-----|--------|



Rip Cord

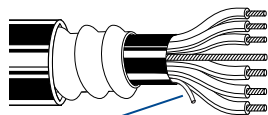
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CSA C22.2#0.3 Clause 4.31 Low Acid Gas

**Composite 14 AWG Stranded (7x22) and 6 AWG Stranded (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire**

**Aluminum Interlocked Armor • .061" (1.55mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                                 |             |               |     |      |      |       |      |       |      |       |      |      |      |        |
|---------------------------------|-------------|---------------|-----|------|------|-------|------|-------|------|-------|------|------|------|--------|
| CSA C22.2#131<br>FT4 Flame Test | <b>6060</b> | 3c/14<br>3c/6 | 849 | 1264 | .810 | 20.57 | 1.06 | 27.00 | 1.16 | 29.41 | 1700 | 7562 | 11.6 | 294.64 |
|---------------------------------|-------------|---------------|-----|------|------|-------|------|-------|------|-------|------|------|------|--------|



Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
4 conductors — Black, Red, Blue, White  
5 or more conductors — Black and numbered



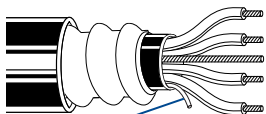
**CSA Control Cable**

## 1000V Teck90 Cables

| Description | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |    | Armor OD |    | Outer Jacket |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|---------------|-------|-----------------|----|----------|----|--------------|----|----------------------|---|---------------------|----|
|             |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm | Inch     | mm | Inch         | mm | Lbs.                 | N | Inch                | mm |

**14 AWG** Stranded (7x22) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

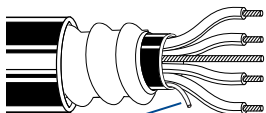
|                |              |   |     |     |     |       |     |       |     |       |     |     |     |        |
|----------------|--------------|---|-----|-----|-----|-------|-----|-------|-----|-------|-----|-----|-----|--------|
| CSA C22.2#131  | <b>C5701</b> | 3 | 251 | 374 | .47 | 11.94 | .67 | 17.02 | .73 | 18.54 | 162 | 721 | 9.2 | 233.68 |
| FT4 Flame Test | <b>C5702</b> | 4 | 301 | 448 | .51 | 12.95 | .71 | 18.03 | .81 | 20.57 | 216 | 961 | 9.7 | 246.38 |



Rip Cord

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas**12 AWG** Stranded (7x20) Bare Copper Conductors • 14 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

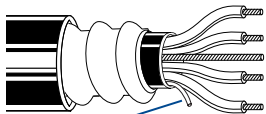
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|----------------|--------------|---|-----|-----|-----|-------|-----|-------|-----|-------|-----|------|------|--------|
| CSA C22.2#131  | <b>C5730</b> | 2 | 253 | 377 | .48 | 12.19 | .68 | 17.27 | .74 | 18.80 | 172 | 765  | 9.3  | 236.22 |
| FT4 Flame Test | <b>C5731</b> | 3 | 291 | 433 | .51 | 12.95 | .71 | 18.03 | .76 | 19.30 | 258 | 1148 | 9.7  | 246.38 |
|                | <b>C5732</b> | 4 | 368 | 548 | .59 | 14.99 | .75 | 19.05 | .85 | 21.59 | 344 | 1531 | 10.8 | 274.32 |



Rip Cord

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas**10 AWG** Stranded (7x18) Bare Copper Conductors • 12 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

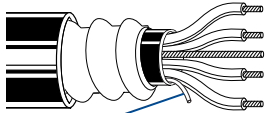
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|----------------|--------------|---|-----|-----|-----|-------|-----|-------|-----|-------|-----|------|------|--------|
| CSA C22.2#131  | <b>C5760</b> | 2 | 285 | 424 | .56 | 14.22 | .79 | 19.99 | .70 | 17.71 | 296 | 1317 | 10.3 | 261.62 |
| FT4 Flame Test | <b>C5761</b> | 3 | 389 | 581 | .59 | 14.99 | .79 | 20.07 | .85 | 21.59 | 444 | 1976 | 10.3 | 261.62 |
|                | <b>C5762</b> | 4 | 460 | 687 | .65 | 16.51 | .85 | 21.59 | .90 | 22.86 | 592 | 2634 | 11.5 | 292.10 |



Rip Cord

HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas**8 AWG** Stranded (7x16) Bare Copper Conductors • 10 AWG Bare Copper Ground Wire**Aluminum Interlocked Armor • .045" (1.14mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                |              |   |     |     |     |       |     |       |     |       |     |      |      |        |
|----------------|--------------|---|-----|-----|-----|-------|-----|-------|-----|-------|-----|------|------|--------|
| CSA C22.2#131  | <b>C5583</b> | 2 | 407 | 607 | .59 | 14.99 | .78 | 19.81 | .86 | 21.84 | 384 | 1709 | 10.6 | 269.24 |
| FT4 Flame Test | <b>C5581</b> | 3 | 471 | 703 | .63 | 16.00 | .83 | 21.08 | .90 | 22.86 | 576 | 2563 | 10.8 | 274.32 |
|                | <b>C5582</b> | 4 | 606 | 905 | .69 | 17.53 | .89 | 22.61 | .97 | 24.64 | 768 | 3418 | 12.5 | 317.50 |



Rip Cord

Dual Rated 600V, 1000V  
HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
 3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
 4 conductors — Black, Red, Blue, White  
 5 or more conductors — Black and numbered

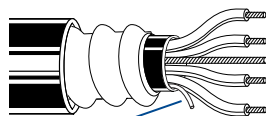
**CSA Control Cable**

## 1000V Teck90 Cables

| Description | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |    | Armor OD |    | Outer Jacket |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|---------------|-------|-----------------|----|----------|----|--------------|----|----------------------|---|---------------------|----|
|             |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm | Inch     | mm | Inch         | mm | Lbs.                 | N | Inch                | mm |

**6 AWG Stranded (7x14) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .060" (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                                 |              |   |     |      |     |       |      |       |      |       |      |      |      |        |
|---------------------------------|--------------|---|-----|------|-----|-------|------|-------|------|-------|------|------|------|--------|
| CSA C22.2#131<br>FT4 Flame Test | <b>C5590</b> | 2 | 567 | 844  | .73 | 18.54 | .99  | 25.15 | 1.10 | 27.94 | 610  | 2713 | 12.8 | 325.12 |
|                                 | <b>C5591</b> | 3 | 685 | 1019 | .78 | 19.81 | 1.04 | 26.42 | 1.15 | 29.21 | 915  | 4072 | 13.4 | 340.36 |
|                                 | <b>C5592</b> | 4 | 927 | 1380 | .89 | 22.61 | 1.15 | 29.21 | 1.24 | 31.50 | 1220 | 5429 | 14.9 | 378.46 |



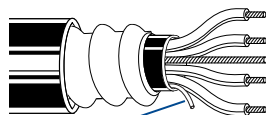
Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

**4 AWG Stranded (7x12) Bare Copper Conductors • 8 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .060" (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                                 |              |   |      |      |     |       |      |       |      |       |      |      |      |        |
|---------------------------------|--------------|---|------|------|-----|-------|------|-------|------|-------|------|------|------|--------|
| CSA C22.2#131<br>FT4 Flame Test | <b>C5601</b> | 3 | 961  | 1430 | .91 | 23.11 | 1.17 | 29.72 | 1.23 | 31.24 | 1455 | 6475 | 15.2 | 386.08 |
|                                 | <b>C5602</b> | 4 | 1202 | 1794 | .91 | 23.11 | 1.25 | 31.75 | 1.33 | 33.78 | 1940 | 8633 | 16.2 | 411.48 |



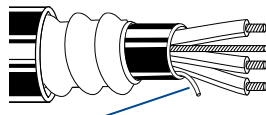
Rip Cord

HAZ LOC

CSA C22.2#0.3 Clause 4.31 Low Acid Gas

**3 AWG Stranded (7x11) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .060" (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                                 |              |   |      |      |     |       |      |       |      |       |      |      |      |        |
|---------------------------------|--------------|---|------|------|-----|-------|------|-------|------|-------|------|------|------|--------|
| CSA C22.2#131<br>FT4 Flame Test | <b>C5611</b> | 3 | 1126 | 1681 | .97 | 24.64 | 1.23 | 31.24 | 1.30 | 33.02 | 1836 | 8170 | 15.8 | 401.32 |
|---------------------------------|--------------|---|------|------|-----|-------|------|-------|------|-------|------|------|------|--------|



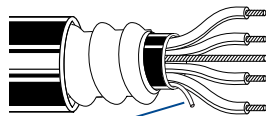
Rip Cord

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CSA C22.2#0.3 Clause 4.31 Low Acid Gas

**2 AWG Stranded (7x10) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .060" (1.53mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                                 |              |   |      |      |      |       |      |       |      |       |      |       |      |        |
|---------------------------------|--------------|---|------|------|------|-------|------|-------|------|-------|------|-------|------|--------|
| CSA C22.2#131<br>FT4 Flame Test | <b>C5621</b> | 3 | 1291 | 1927 | 1.02 | 25.91 | 1.28 | 32.51 | 1.37 | 34.80 | 2316 | 10302 | 16.5 | 419.10 |
|                                 | <b>C5622</b> | 4 | 1691 | 2524 | 1.12 | 28.45 | 1.38 | 35.05 | 1.48 | 37.59 | 3088 | 13736 | 17.7 | 449.58 |



Rip Cord

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CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 2 conductors — Black, White (If required, a Red conductor can be used in place of White.)  
 3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
 4 conductors — Black, Red, Blue, White

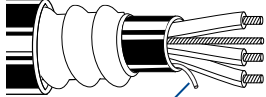
**CSA Control Cable**

## 1000V Teck90 Cables

| Description | Part No. | No. of Cond. | Cable Weight  |       | Inner Jacket OD |    | Armor OD |    | Outer Jacket |    | Maximum Pull Tension |   | Minimum Bend Radius |    |
|-------------|----------|--------------|---------------|-------|-----------------|----|----------|----|--------------|----|----------------------|---|---------------------|----|
|             |          |              | Lbs./1000 Ft. | kg/km | Inch            | mm | Inch     | mm | Inch         | mm | Lbs.                 | N | Inch                | mm |

**1 AWG Stranded (19x14) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .080" (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

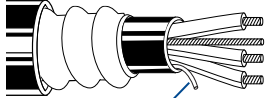
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|----------------|--------------|---|------|------|------|-------|------|-------|------|-------|------|-------|------|--------|
| CSA C22.2#131  | <b>C5625</b> | 3 | 1620 | 2411 | 1.25 | 31.75 | 1.51 | 38.35 | 1.59 | 40.39 | 1980 | 8807  | 19.1 | 485.14 |
| FT4 Flame Test | <b>C5626</b> | 4 | 2173 | 3234 | 1.34 | 34.04 | 1.57 | 39.88 | 1.68 | 42.67 | 2680 | 11921 | 20.2 | 513.08 |



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CSA C22.2#0.3 Clause 4.31 Low Acid Gas

**1/0 AWG Stranded (19x12) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .080" (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

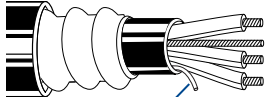
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|----------------|--------------|---|------|------|------|-------|------|-------|------|-------|------|-------|------|--------|
| CSA C22.2#131  | <b>C5627</b> | 3 | 1912 | 2854 | 1.34 | 34.04 | 1.60 | 40.64 | 1.67 | 42.42 | 3582 | 15940 | 20.0 | 508.0  |
| FT4 Flame Test | <b>6164</b>  | 4 | 2514 | 3742 | 1.44 | 36.58 | 1.67 | 42.42 | 1.78 | 45.21 | 4700 | 20906 | 21.4 | 543.56 |



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**2/0 AWG Stranded (19x11) Bare Copper Conductors • 6 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .080" (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

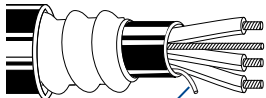
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|----------------|--------------|---|------|------|------|-------|------|-------|------|-------|------|-------|------|--------|
| CSA C22.2#131  | <b>C5635</b> | 3 | 2300 | 3423 | 1.40 | 35.56 | 1.63 | 41.40 | 1.74 | 44.20 | 4200 | 12010 | 20.9 | 530.86 |
| FT4 Flame Test | <b>6157</b>  | 4 | 3039 | 4523 | 1.55 | 39.37 | 1.84 | 46.74 | 1.95 | 49.53 | 5500 | 24465 | 23.4 | 594.36 |



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**3/0 AWG Stranded (19x10) Bare Copper Conductors • 4 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .080" (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

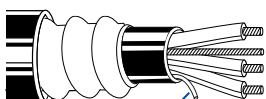
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|----------------|-------------|---|------|------|------|-------|------|-------|------|-------|------|-------|------|--------|
| CSA C22.2#131  | <b>6163</b> | 3 | 2905 | 4324 | 1.51 | 38.10 | 1.80 | 45.72 | 1.91 | 48.26 | 5020 | 11121 | 22.9 | 579.12 |
| FT4 Flame Test | <b>6179</b> | 4 | 3700 | 5506 | 1.67 | 42.42 | 1.96 | 49.78 | 2.07 | 52.58 | 6500 | 28913 | 24.8 | 629.92 |



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CSA C22.2#0.3 Clause 4.31 Low Acid Gas

**4/0 AWG Stranded (19x9.5) Bare Copper Conductors • 4 AWG Bare Copper Ground Wire****Aluminum Interlocked Armor • .080" (2.03mm) XLPE Insulation • PVC Inner Jacket • Black PVC Outer Jacket**

|                |             |   |      |      |      |       |      |       |      |       |      |       |      |        |
|----------------|-------------|---|------|------|------|-------|------|-------|------|-------|------|-------|------|--------|
| CSA C22.2#131  | <b>6193</b> | 3 | 3450 | 5134 | 1.63 | 41.40 | 1.92 | 48.77 | 2.03 | 51.56 | 6650 | 29580 | 24.4 | 619.76 |
| FT4 Flame Test |             |   |      |      |      |       |      |       |      |       |      |       |      |        |



HAZ LOC  
CSA C22.2#0.3 Clause 4.31 Low Acid Gas

XLPE = Cross-linked Polyethylene

Color Code: 3 conductors — Black, Red, Blue (If required, a White conductor can be used in place of Blue.)  
4 conductors — Black, Red, Blue, White

## CSA Control Cable

### 1000V Variable Frequency Drive Cable

#### Cable Specifications

- CSA C22.2 #38 Type TC
- CSA C22.2 #230 Type TC
- CSA FT4 70,000 BTU Flame Test
- 90°C Dry and Wet
- -40°C Cold Bend, -25°C Cold Impact
- -25°C Installation temp
- Per CEC Part 1, Suitable for Use in Hazardous Locations:  
Class 1 — Zone 2  
Class 2 — Division 2
- Sunlight Resistant/UV Resistant
- Direct Burial

#### 14 to 2 AWG with Foil/Braid Shield

Belden's classic line of VFD cables, with foil/braid shield, is offered in 14 to 2 AWG, and continues to be the highest-performing solution in the market. The oversized XLPE insulation provides the lowest capacitance available in a VFD cable. Its highly effective dual shielding provides the lowest resistance to ground path, which improves common mode current containment. Included are a full-size, insulated green ground wire with a yellow stripe, as well as a drain wire for ease of installation and termination. The 85% braid coverage offers optimum EMI low frequency noise protection, while the 100% aluminum/Mylar tape offers RFI high frequency noise protection. Cables are round and smooth for proper sealing of glands and molding applications.

#### Large AWG (1 to 4/0) with Copper Tape Shield, Symmetrical Design

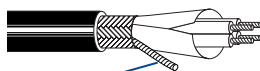
Belden's symmetrical design combines the benefits of our classic line of VFD cables, with additional features for use on larger, more powerful AC motor drives. Its highly effective shielding provides a low resistance ground path, which improves common mode current containment. The spirally applied dual copper tapes provide improved flexibility and EMI/RFI noise protection. Three symmetrical bare ground wires provide a balanced ground system. This reduces the likelihood of premature motor bearing or motor insulation failure.

| Description | Part Number | AWG | Stranding | Shield |
|-------------|-------------|-----|-----------|--------|
|-------------|-------------|-----|-----------|--------|

**14 to 2 AWG** (3) Stranded Bare Copper Circuit Conductors + (1) Full-sized PVC Insulated Ground • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage) • Full Size TC Drain Wire (ICEA Method 4 Color Code: Black and Numbered, Green/Yellow Ground)

#### XLPE Insulation • Black Sunlight- and Oil-resistant PVC Jacket

| 1000V CSA TC            | Part Number | AWG | Stranding | Shield  |
|-------------------------|-------------|-----|-----------|---|
| FT4                     | 29550       | 14  | 7         | Beldfoil<br>(100% Coverage)<br>+ TC Braid<br>(85% Coverage) |
| RW90 Circuit Conductors | 29551       | 12  | 7         |   |
|                         | 29552       | 10  | 7         |   |
|                         | 29553       | 8   | 7         |   |
|                         | 29554       | 6   | 7         |   |
|                         | 29555       | 4   | 7         |   |
|                         | 29556       | 2   | 7         |   |



Drain Wire

**1 to 4/0 AWG** (3) Stranded Bare Copper Circuit Conductors + (3) Symmetrical Bare Copper Grounds • (2) Spiral Copper Tape Shields

#### XLPE Insulation • Black Sunlight- and Oil-resistant PVC Jacket

| 1000V CSA TC              | Part Number | AWG | Stranding | Shield                     |
|---------------------------|-------------|-----|-----------|----------------------------|
| FT4                       | 29557       | 1   | 19        | (2) Spiral<br>Copper Tapes |
| XHHW-2 Circuit Conductors | 29558       | 1/0 | 19        |                            |
|                           | 29559       | 2/0 | 19        |                            |
|                           | 29560       | 3/0 | 19        |                            |
|                           | 29561       | 4/0 | 19        |                            |



Products listed are subject to minimum order quantities.