



## CCSX (BLX)



Crosslinked



Longitudinally waterproof



Weather-resistant

CCSX W 10–52 kV is a round-stranded, non-compacted covered overhead line designed for superior reliability and extended service life. The conductor is longitudinally watertight through extruded polymer applied between each conductor layer, effectively preventing water ingress and corrosion to ensure enhanced durability and performance.

The manufacturing process integrates water blocking and three extruded layers in a single operation, guaranteeing consistent quality and functionality. The UV-protected outer sheath provides resistance to sunlight and environmental stress, ensuring long-term suitability for outdoor applications.

CCSX is available in FeAl design and AlMgSi type Al7. Each conductor is marked with manufacturer / type / EN50397-1 / year + month / meter marking for full traceability. It is produced in all standard dimensions and offered in black, grey, or green, with options for customized solutions.

Amokabel also provides Environmental Product Declarations (EPD) for all CCSX products. Manufacturing and testing comply with EN50397-1 and SS4241464.

## APPLICATION

CCSX is a thermoset (XLPE) covered conductor with maximum operating temperature of +80°C. CCSX is a round-wire, non-compacted, coated overhead line conductor.

The conductor is longitudinally water-blocked by extruded polymer between each layer of the conductor.

The longitudinally water-blocked conductor and the three extruded layers are manufactured in a single, integrated process to ensure optimal quality and performance.

## STANDARDS

### Construction

EN50397-1

## APPROVAL



## CONSTRUCTION

### Bending radius - Extraction

15 xOD

### Bending radius - Final mount fixed

10 xOD

### Color

Black

### Conductor

AAAC, ACSR, ACSC

### Insulation

XLPE

### Labeling example

AMOKABEL-K CCSX 99 AAAC 20(24)kV W EN50397-1 year/month, meter marking

### Outer sheath

XLPE

### Semiconductor

Yes, extruded

## PROPERTIES

### Max. Short circuit temperature

250

### Max temperature

80 °C



## PROPERTIES

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**Min. temperature**

-20 °C

**UV resistance**

Yes

**Watertightness**

Yes, extruded polymer

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| Name                    | E-Number | Cross section [mm <sup>2</sup> ] | Outer diameter [mm] | Total weight [kg/km] | AC voltage rating | Number of strands [pcs] | Strand diameter [mm] |
|-------------------------|----------|----------------------------------|---------------------|----------------------|-------------------|-------------------------|----------------------|
| CCSX 50 AL7 20(24)kV W  |          | 50                               | 14.44               | 247                  | 20(24)kV          | 7                       | 3.08                 |
| CCSX 50 AL7 30(36)kV W  |          | 50                               | 16.44               | 292                  | 30(36)kV          | 7                       | 3.08                 |
| CCSX 50 AL7 33kV W      |          | 50                               | 17.1                | 309                  | 33kV              | 7                       | 3.08                 |
| CCSX 62 ACSR 20(24)kV W | 0620072  | 62                               | 15.31               | 331                  | 20(24)kV          | 7                       | 3.37                 |
| CCSX 62 ACSR 33kV W     |          | 62                               | 17.97               | 385                  | 33kV              | 7                       | 3.37                 |
| CCSX 70 AL7 20(24)kV W  |          | 70                               | 15.91               | 313                  | 20(24)kV          | 7                       | 3.57                 |
| CCSX 70 AL7 30(36)kV W  |          | 70                               | 17.91               | 362                  | 30(36)kV          | 7                       | 3.57                 |
| CCSX 70 AL7 33kV W      |          | 70                               | 18.57               | 380                  | 33kV              | 7                       | 3.57                 |
| CCSX 99 ACSR 20(24)kV W | 0620122  | 99                               | 17.95               | 489                  | 20(24)kV          | 7                       | 4.25                 |
| CCSX 99 ACSR 52kV W     |          | 99                               | 21.35               | 587                  | 52kV              | 7                       | 4.25                 |
| CCSX 99 AL7 20(24)kV W  | 0620123  | 99                               | 17.95               | 417                  | 20(24)kV          | 7                       | 4.25                 |
| CCSX 99 AL7 33kV W      |          | 99                               | 20.61               | 491                  | 33kV              | 7                       | 4.25                 |
| CCSX 100 ACSR W ET      |          | 100                              | 24.75               | 702                  | ET                | 7                       | 4.25                 |
| CCSX 100 AL7 52kV W     |          | 100                              | 21.35               | 530                  | 52kV              | 7                       | 4.25                 |
| CCSX 100 AL7 W ET       |          | 100                              | 24.75               | 645                  | ET                | 7                       | 4.25                 |
| CCSX 120 AL7 20(24)kV W |          | 120                              | 19.4                | 506                  | 20(24)kV          | 19                      | 2.84                 |
| CCSX 120 AL7 30(36)kV W |          | 120                              | 21.4                | 547                  | 30(36)kV          | 19                      | 2.84                 |
| CCSX 120 AL7 33kV W     |          | 120                              | 22.06               | 568                  | 33kV              | 19                      | 2.84                 |
| CCSX 120 AL7 52kV W     |          | 120                              | 22.8                | 610                  | 52kV              | 19                      | 2.84                 |
| CCSX 159 AL7 20(24)kV W | 0620172  | 159                              | 21.5                | 635                  | 20(24)kV          | 19                      | 3.26                 |
| CCSX 159 AL7 33kV W     |          | 159                              | 24.16               | 724                  | 33kV              | 19                      | 3.26                 |
| CCSX 159 AL7 52kV W     |          | 159                              | 24.9                | 751                  | 52kV              | 19                      | 3.26                 |
| CCSX 241 AL7 20(24)kV W | 0620229  | 241                              | 25.3                | 920                  | 20(24)kV          | 19                      | 4.02                 |
| CCSX 241 AL7 33kV W     |          | 241                              | 27.96               | 1023                 | 33kV              | 19                      | 4.02                 |
| CCSX 241 AL7 ET W       |          | 241                              | 32.1                | 1209                 | ET                | 19                      | 4.02                 |
| CCSX 329 AL7 20(24)kV W |          | 329                              | 28.79               | 1244                 | 20(24)kV          | 37                      | 3.37                 |
| CCSX 329 AL7 33kV W     |          | 329                              | 31.45               | 1346                 | 33kV              | 37                      | 3.37                 |
| CCSX 329 AL7 52kV W     |          | 329                              | 32.19               | 1388                 | 52kV              | 37                      | 3.37                 |

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|-------------------|----------|----------------------------------|---------------------|----------------------|-------------------|-------------------------|----------------------|
| CCSX 329 AL7 ET W |          | 329                              | 35.59               | 1550                 | ET                | 37                      | 3.37                 |

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