Product Overview

CCSX (BLX) 10–52 kV is a round-stranded, non-compacted covered overhead line conductor designed to provide high operational reliability and extended service life in overhead power distribution networks.

The conductor features longitudinal water blocking, achieved by extruded polymer material applied between each conductor layer. This construction helps prevent water ingress and reduces the risk of moisture-related corrosion, improving long-term durability and performance.

Its manufacturing process combines longitudinal water blocking with the extrusion of three polymer layers in a single production operation, ensuring consistent product quality and reliable layer integration.

The UV-protected outer sheath provides resistance to sunlight and environmental exposure, making CCSX suitable for long-term outdoor installations.

Conductor Designs

CCSX is available in the following conductor designs:

- **FeAl Design:** Aluminium conductor with iron-related design configuration.
- **AlMgSi Design (Al7):** Aluminium-magnesium-silicon alloy conductor.

Products are available in standard dimensions, with customized solutions offered according to project requirements.

Key Features

- **Wide Voltage Range:** Designed for covered overhead line applications from 10 kV to 52 kV.
- **Longitudinal Water Blocking:** Extruded polymer material between conductor layers helps prevent water penetration.
- **Three-Layer Extrusion:** Water blocking and three polymer layers are integrated into a single manufacturing operation.
- **UV-Resistant Outer Sheath:** Provides protection against sunlight and outdoor environmental exposure.
- **Reliable Outdoor Performance:** Designed for durability and extended service life.
- **Full Product Traceability:** Each conductor is marked with manufacturer, type, EN 50397-1, year and month of manufacture, and meter marking.
- **Color Options:** Available in black, grey, or green.
- **Customized Solutions:** Standard dimensions and project-specific configurations are available.

Standards and Quality Assurance

CCSX products are manufactured and tested in accordance with:

- EN 50397-1
- SS 424 14 64

QZ Cable also provides Environmental Product Declarations (EPDs) for all CCSX products.

Applications

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CCSX (BLX) covered overhead line conductors are designed for outdoor overhead power distribution applications where reliable moisture protection, UV resistance, and long-term conductor performance are required.

Technical Specifications

Name	Cross section [mm2]	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	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	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	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	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	241	25.3	920	20(24)kV	19	4.02
CCSX 241 AL7 33kV	241	27.96	1023	33kV	19	4.02

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Name	Cross section [mm2]	Outer diameter [mm]	Total weight [kg/km]	AC voltage rating	Number of strands [pcs]	Strand diameter [mm]
W						
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
CCSX 329 AL7 ET W	329	35.59	1550	ET	37	3.37

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