

Amokabel Covered Conductor Q&A

The Energy Industry Equipment Manufacturing // News // BLOG // Amokabel Covered Conductor Q&A



Installation guide for Amokabel Covered Conductors

What is Amokabel Covered Conductor (CC)?

Amokabel Covered Conductor (CC) is a round, non-compacted cable with an outer layer of High-Density Polyethylene (HDPE) and internal layers of XLPE, semi-conductor and water blocking materials.

What Australian networks can these be used on?

Amokabel Covered Conductor can be used on any Australian Network as a direct replacement for bare conductor.

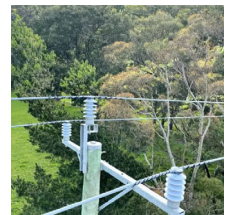
What are the benefits of installing ACC?

Amokabel Covered Conductor (CC) offers significant benefits, primarily reduced bushfire risk. The ACC also significantly enhances network reliability plus safety for people and wildlife, often with economical retrofitting to existing infrastructure. Outages caused by wildlife can be easily avoided with the Amokabel New Generation Converted Conductor making it a cost-effective wildlife mitigation solution.

What sizes are used in Australia?

While Amokabel produce a large range of CC sizes, the three sizes currently available in the Australian market are:

- **CCSX25** - 7/2.12 ACS CBL 31.5kN
Direct replacement for 3/2.75 (3/12) steel conductor
- **CCSX62** - 6/1/3.37 ACSR CBL 18.6kN
Direct replacement for AAC and ACSR conductors from 7/2.50 to 7/3.75
- **CCSX159** - 19/3.26 AAAC CBL 42kN *Direct replacement for 19/3.25 AAC*



Which Australian states have installed the ACC successfully?

Amokabel Covered Conductor has currently been installed in Victoria, New South Wales and Tasmania with trials taking place in other Australian states.

ACC cable and installation requirements

Do I need to keep CC off the ground when stringing?

It is preferred to keep the CC off the ground where possible and practical. The hard covering on the CC will provide protection when running across smooth surfaces such as grassy paddocks, however, steps are to be taken to prevent potential damage by sharp objects such as barbed wire fences, street signs or farm implements. Steps to mitigate damage include placing barriers to prevent contact. E.g., Hard cover or LV mat over a fence or sign.



What stockings and comealongs/cable grips are required?

Specific stockings and comealongs/cable grips are required for each of the 3 sizes of covered conductor with each size having its own specific termination fitting type.

Socks Stockings/Hauling

Specific testing has been completed to confirm suitability of the stockings below to safely haul Amokabel CC.

- **CCSX25** - [Slingco ZCS1710 \(6-12mm\) stocking](#)
- **CCSX62** - [Slingco ZCS1711 \(12-19 mm\) stocking](#)
- **CCSX159** - [Slingco ZCS1712 \(19-25mm\) stocking](#)

Per the Slingco manufacturer's instructions, an appropriately rated swivel (minimum 2 times CBL) and Panduit clamps are to be used with the stockings.

Refer to [TEN's Slingco Cable Pulling Grips information sheet](#)

What is needed for Straining?

Specific equipment in lieu of a standard comealong is required to strain the 3 types of CC.

- **CCSX25** - MRP 4 bolt pocketbook comealong (11.8mm) – 4B-465 and **CD8-60-12 Torque wrench** is required.
- **CCSX62** - [Riganti IR 3112](#) longjaw comealong with 15.8mm Al to Al jaws
- **CCSX159** - Standard Chicago, NGK or Klein comealongs to suit 21.7mm diameter
- **CCT-GRIP** - [CCT Up to 180mm2 Up to 80mm2](#)



CCSX25 compression joints

A 60 or 100 Tonne press and head with 16mm AF steel dies are required to compress the CCSX25 termination and mid span joints. The CCSX62 and CCSX159 do not require crimping as the terminations are via a wedge clamp and the mid span joints are completed using auto splices. Any crimp heads under 60T have not been tested or approved.

What tools and equipment are needed?



CUTTING RC-32ACSR

Ratchet hand cable cutters

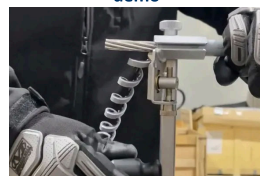
[Watch our quick cable cutting demo](#)



STRIPPING IBST50400

Sheath stripper

[Watch our quick cable stripping demo](#)



CRIMPING (CCSX25 only)

HP60TCSA 60 Tonne - Hydraulic Crimping Tool / Head

K60-16.0-ST 60 Tonne crimping dies

RHP700LK Battery pump



STRINGING

GGT001 Swivel joint

SPP-1A SPP Universal stringing roller

ZCS1710 Cable pulling grips - Slingco

ZCS1711 Cable pulling grips - Slingco

ZCS1712 Cable pulling grips - Slingco



STRAINING

4B-465 Pocketbook Grip 4

CD8-60-12 1000V insulated torque wrench

IR3112 with IR3112L15.8AL Grips

CCT-GRIP Serrated grip

Why should I band the socks?

As per the Slingco manufacturer's instructions, an appropriately rated swivel (minimum 2 times CBL) and banding clamps are to be used with the stockings.

BAND-IT® 201 Stainless Steel Bands

The BAND-IT® type 201 Stainless steel non- magnetic band is the preferred option in all general use banding applications, offering high tensile strength and good resistance to oxidation and weathering. Available in a variety of widths and thicknesses.

[See available options here](#)

In addition, EASYSSCALE – imprinted measurements on the band, help determine band length and eliminate costly waste. Packaged in a standard box or a durable plastic tote for easy dispensing.

Ball-Lokt™ Banding System

For applications ranging from identification tagging to bundling cables, Ball-Lokt™ Ties in 316 stainless steel, provide a longer life than nylon ties, especially in extreme climates.

Self-locking design installation by hand or with the KS 652 tool, to assure uniform tension and clean tail cut-off for safe handling. Ideal for conductor wire grip application.

Contact TEN

TEN has worked closely with [Groundline Engineering](#) and [Amokabel Australia](#) to produce this information.