Extending SolShare CT Tails
Version D1

DISCLAIMER

This document is intended to provide guidance on how to extend CTs provided with SolShare. This document does not override the local electrical safety standards and wiring rules. It is the responsibility of the installer to ensure the shared solar installation meets the relevant electrical safety and wiring standards in the installation locality.

SOLSHARE CTs

➢ Each SolShare is shipped with 15 CTs, typically EChun ECS16-120 split core CTs.
➢ Each CT has a 10m tail attached.
➢ Each CT box, CT and its connected tail is marked with a SolShare output (e.g., **L2**-1) for ease of installation.
➢ As part of a SolShare installation, every connected flat must have 1 x SolShare CT installed between the electricity meter and the solar point of connection (measuring grid import/export).
➢ For more information on how to install SolShare CTs, please see the latest version of the *SolShare Installation Manual* on Allume's Document Library.

EXTENDING CT TAILS

If the installation location requires a tail length of a CT over 10m, the tails can be extended. The CT tails can be extended **up to 100m**. This should be done using:

➢ Shielded, twisted pair cable of gauge **0.25mm^2 (24 AWG) or larger**.
➢ The cable must be rated to a voltage suitable for the electrical installation.
➢ Splicing connector / pluggable terminal block or similar.
➢ Shielding of cable **must** be grounded. This can be done by connecting shielding to a splice connector then running an insulated cable to SolShare ground bar.

Critical info (SolShare will not commission if the below are not met):

➢ Ensure there is good electrical contact between tail & extension & SolShare terminal block.
➢ Ensure shielding is not compromised along the extension/s and tails (e.g., avoid the use of sharp objects like metal cable ties on these tails/wires).
➢ Ensure the cable run is not twisted or buckled.

Tip:

➢ Label the extended tail with the same SolShare output name (e.g., **L2**-1) as is written on the original part of the tail and the CT. This will help to ensure the correct CT tail is inserted into the correct terminal on the SolShare during installation.