

Standards and Quality Assurance

NY-Sun



The Standards and Quality Assurance Team manages a network of third-party inspectors to verify a sampling of projects for compliance with program and technical requirements.

This fact sheet is part of a series aimed at helping contractors become knowledgeable about common nonconformances in the NY-Sun Commercial and Industrial Program.

CAB Solar Cable Management System Guidance

CAB utilizes PVC coated steel hangers, messenger wire, clamps and brackets in the installation of a cable messenger support system for solar PV system conductors as allowed per NEC Article 396.

NYSERDA has prepared this guidance document to ensure code compliant installations, which address the concern related to CAB conductors where subject to physical damage as outlined in NEC 396.12. NYSERDA requires a site plan to clearly delineate and note all wire runs where CAB is proposed for review and approval prior to installation. NYSERDA will accept incidental jumps of a reasonably short length between rows of arrays when properly supported and protected from physical damage. Permanent warning signage installed on a driven post or concrete ballasted post if unable to drive a post due to site conditions such as a landfill or shallow bedrock shall be required.

NYSERDA will NOT accept the use of CAB in locations that extend beyond the array footprint and are routed any significant distance to adjacent arrays, balance of system or other service equipment components. It is our position that installing CAB in open areas will subject the conductors to physical damage. Physical damage could occur during mowing activities, snow removal or other maintenance operations.

Please provide NYSERDA with the manufacturer's installation manual regarding the CAB system. If not specifically addressed in the installation manual, provide the below information on the site plan as follows:

- Hanger interval spacing.
- Location where the messenger cables will be secured to the array.
- How is tension controlled on the messenger cable to ensure hanger height is maintained.
- Height above grade for the hangers.
- Identify all equipment grounding specifications.
- List the number and size of the conductors that will be installed in each CAB section.
- List the ampacities and overcurrent protection for all the conductors installed utilizing the CAB system per NEC table 310.15(B)(16) and NEC table 310.15(B)(3)(a).

Have questions?

If you have questions, please contact:
inspections@nyserderda.ny.gov.



NYSERDA