

# Software for electrical and photovoltaic engineering

## CADelet, iDEA, Eplus - Electrical CAD

• CADelet supports AutoCAD 2023.

• New Autodesk OEM 2023 CAD engine for Eplus and iDEA.



• Assignment of the preferred manufacturers used in the job order, with a specific filter in all database access operations.

• Dynamic automatic tracking of connections upon symbol insertion, with assignment of wire characteristics.

• Automatic recognition of the phases when inserting symbols on a multi-line diagram.

• Interactive management of location and function in diagrams, with recognition of functional zones or perimeter locations.

• Import of annotations from PDF diagrams (manual sketches, texts, geometries) onto the project.

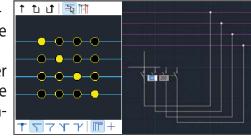
• Generation of the table with the history of the annotations added to the schema.

• Management of cross-references between any symbolic elements of the diagram also reported on the PDF representation of the diagram.

• New features on modular connectors, with the possibility of connections on the frame.

• Automatic connection on prewired cable scheme.

• PLC: further profiles for the automatic assign-



ment of operand numbering.

• PLC: identification and representation of the connectors integrated in the boards.

- PLC: updating and exchange of archives on .egz files using EG Data Exchange.
- Additional customizable data managed in schema reviews.

• Reporting of information taken from user drawings on the elements of the synoptic diagram.

• Export to .xls file of summary tables generated on schema.

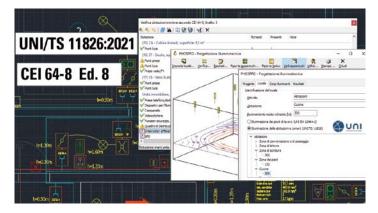
• Types of protections to be applied to utilities in CAD now aligned with Ampère.

• Generation of single-line diagrams from the Ampère project with identification and management of elements in the field.

• New ways of sorting the tables designed by network management.

• Extension of the calculation of illuminances for domestic environments, now according to UNI 11826.

• Updating of the typical plant equipment according to the classification of the new CEI 64-8 VIII ed.



#### **Cablo - Wiring harnesses**

• New interface with use of ribbon bar in Cablo.

• Different interface styles in Cablo with possibility of dark theme.

• Support for HiDPI and 4K multi-monitor systems.

• New ways of automatic cable marking with customizable profiles.

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### Tabula - Bil of materials

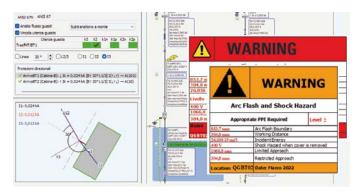
• Different interface styles in Tabula with possibility of dark theme.

• Support for HiDPI and 4K multi-monitor systems.

• Filter on preferred constructors in all database access operations.

### Ampère line - Electrical grid calculation

Arc Flash analysis of switchboards according to IEEE 1584-2018 standard and generation of report and signaling label to be affixed to the switchboard.
Setting of protections with AFDD arc flash mitigation device as an auxiliary element.



• Tabular multiple editing of units, with rapid addition of typical units.

• Multiple search and replacement of cables and protections.

• New management of the combined type protections with the possibility of coupling releases with a different manufacturer from the circuit-breaker.

• Possibility of setting both positive and negative adjustment tolerances.

• Drafting of typical protection reports and collation of the data sheet in the project documentation.

• Drafting and printing of the cable summary, multicore or single-core, by single type. • Automatic filiation of backup protections, at several definable levels.

• Identification of elements in the field and resulting single-line diagrams.

• Vector analysis of fault current flows, symmetrical, homopolar and two-phase ground.

• Analysis of the fault currents passing through a point following a fault in another set point.

• Analysis of the fault with 67 phase directional protections, in order to determine direction, characteristic angle and tripping logic.

• Check selectivity for fixed fault point with transformers in-rush in parallel.

• Setting of logic selectivity condition between protections.

• EGlink - Update to Revit 2022 / 2023

• EGlink - Optimized management of further parameters and recognition of typical electrical quantities.

• EGlink – Recognition of non-electrical connection elements such as manholes or similar, for the purpose of routing users.

• Assignment of preferential constructors and specific filter in all database access operations.

• Extension and updating of the device database.

### Solergo - Photovoltaic engineering

• Introduction of 3D obstacles according to typical representation models for plants or antennas.

• Editing of the elements (roofs and obstacles) on the 3D model with action on their grips.

• Export of monthly and daily energy and producibility data to .xls file.

• Generation of the single connection document.

• Filter on preferred constructors in all archive access operations.

• Extension and updating of the PV modules and inverter databases.

• Dark themed styles and HiDPI and 4K monitor support.



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