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CAD solutions for electric harness



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- **Cable definition**

With Cabling 4D 2011 you can define a multi-polar cable within the windows for connection definition, both in wiring diagram and harness layout mode. This saves time and simplify the use of the product.

- **Import material from a database coming from an harness layout**

With this new option the transition of projects between the companies that share them became easier. The company that designed an harness layout of a schema can send the drawing and all material data refer to the drawing. The company that receive the project can import material data from the database to update its archive materials (Cabling.mdb). If you do not intend to add these materials to your archive material you can make a copy, import new materials and, on completion of wiring changes, restore the original file.

- **Output in Excel file**

Most of the output to file of Cabling can be now generated directly in Excel, in addition to the usual CSV format. This new opportunity to speed up the operations of opening the file and to prevent Excel 'interpreters' some cells of the sheet, as can happen with the CSV file.



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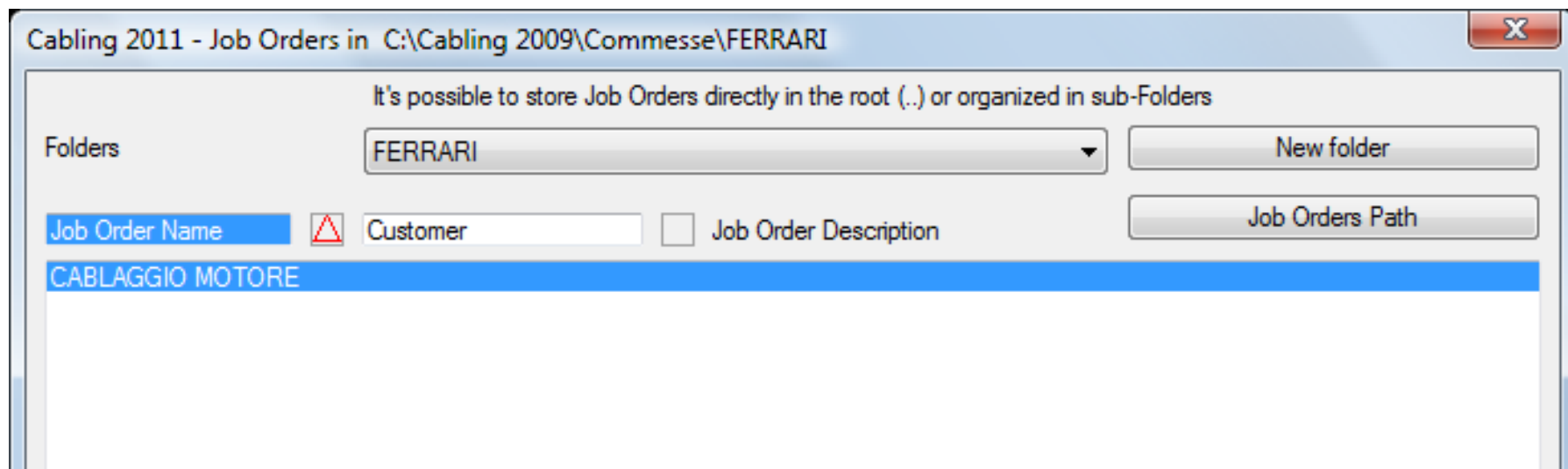


- **Rigeneration output files**

Using Cabling 4D 2011 is now possible to regenerate automatically, as well as the tables, also the external files CSV or XLS. First to overwrite the files a confirmation is required. This new opportunities allows to remember files generated by Cabling and regenerate them quickly with original parameter using during first output.

- **Job-order management: job orders in sub-folder**

Many companies work by breaking down the job order for Client: this new option allows you to see, starting from a root folder, the sub-folder in which other job-order will be stored.



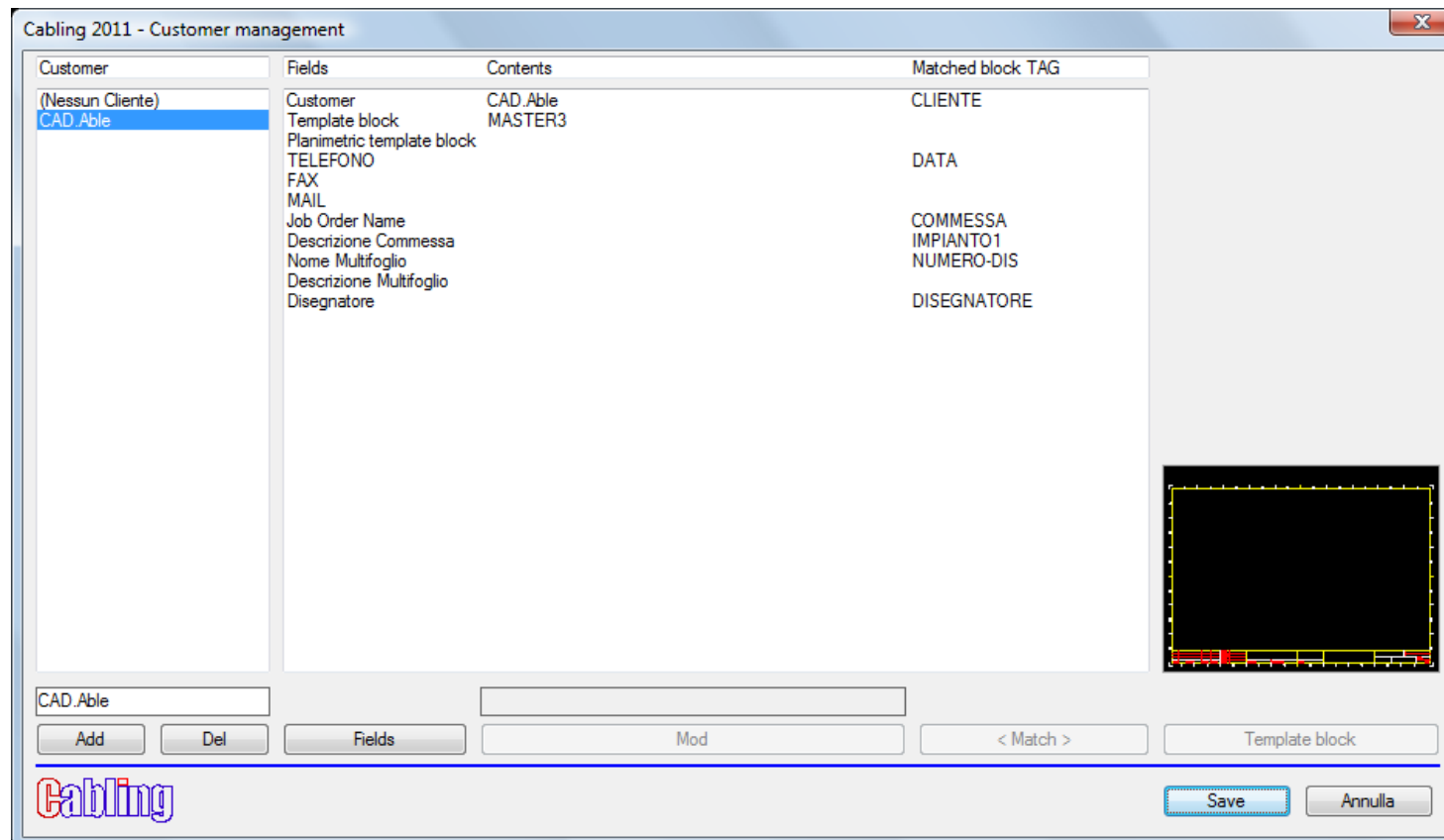


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- **New customer management**

Window Customer management change and it's now more simple and intuitive to use.





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- **Trasform an Unplugged Group into a Connector**

Using Cabling 4D 2011 is possible to tranform an Unplugged Group already inserted in harness layout schema into a Connector. If during the design you haven't knowledge about the type of finale connector, this utility allows to make the transformation without loose previous connections already done.

- **Button to check the name of Group when you design**

When you realize a complex harness layour schema sometime it's necessary to have a look on name of group already used: a new button on window 'Insert Group' open a further window where names of Groups are listed in alphabet order with related additional information (type of Group, material, function...)

- **New feature to read and use name of groups coming from a file (relief file)**

Many time name of Groups are coming from a rilief file compiled by a technician looking the vehicle or the equipment: this file can be read by Cabling and, with a new button on window 'Insert Group', the list of names and functions can be visualized and selected to use. Names already inserted are highlight to avoid to select another time.

- **Multiple Bundles drawing**

New option allows to draw a group of identical bundles create radially respect to the starting point.



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- **Possibility to enable / disable the display a single length for the sheaths joined together**
This option was added to maintain compatibility with previous versions of Cabling.
- **Change scale factor for Accessories**
As for the groups the accessories can be scaled with a special function. Function is available in Accessory utilities.
- **New command to plot (Autoplot)**
Printing with Cabling is now easier and more immediate with the new plot command.
- **Node integrated accessories management**
Accessories integrated in the node (accessories invisible) can now have a quantity, facilitating the adding of multiple and repeated accessories.
- **New mode to present accessories in Insert Group command**
Inside the command Insert Group the new setting allows to visualize in three different ways the accessories associated to selected group: visualize all the accessories, visualize only the first, don't visualize.
- **Improvement in Connection Table and List**
For splices is now added to the pin (- for default) the number (1) or (2) to indicate the two sided where the wires come to be connected together. This helps to understand how the splice must be realized.



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- **Add-on length for bundles**

The bundles, in addition to length, may now have an add-on length positive or negative. This add-on is added (or removed if negative) to the length of the bundle only in the outputs bundles cutting list and bill of materials. This option allows you to maintain the correct size of the bundles for the calculation of the lengths of the wires even if the coating material is subject to lengthening or shortening during assembly and at the same time in the output is exported the length of cut required.

- **Matching of harness**

The harness layout scheme of two harnesses can now be compared each other to allow to highlight the differences. This feature is extremely useful to have a list of changes and use them to change, for example, the production cycle of the new version of the harness compared to a previous one.

- **Wiring diagram improved**

In the design of the poles in 'Pin by Pin' drawing mode is now possible to change the symbol of the pin during the insertion cycle, to better suit the needs of the design of subsequent connections.

You can also line up horizontally or vertically to a pole already entered.

Finally, when performing the wiring diagram scheme using data coming from harness layout, each insertion of a group highlights the pole to which the group will be connected, helping the alignment between the poles and the subsequent drawings of connections.