

6. MAI 2022

TEAM 2

MODELLING WIZARD FOR CABLES

USER- DOCU

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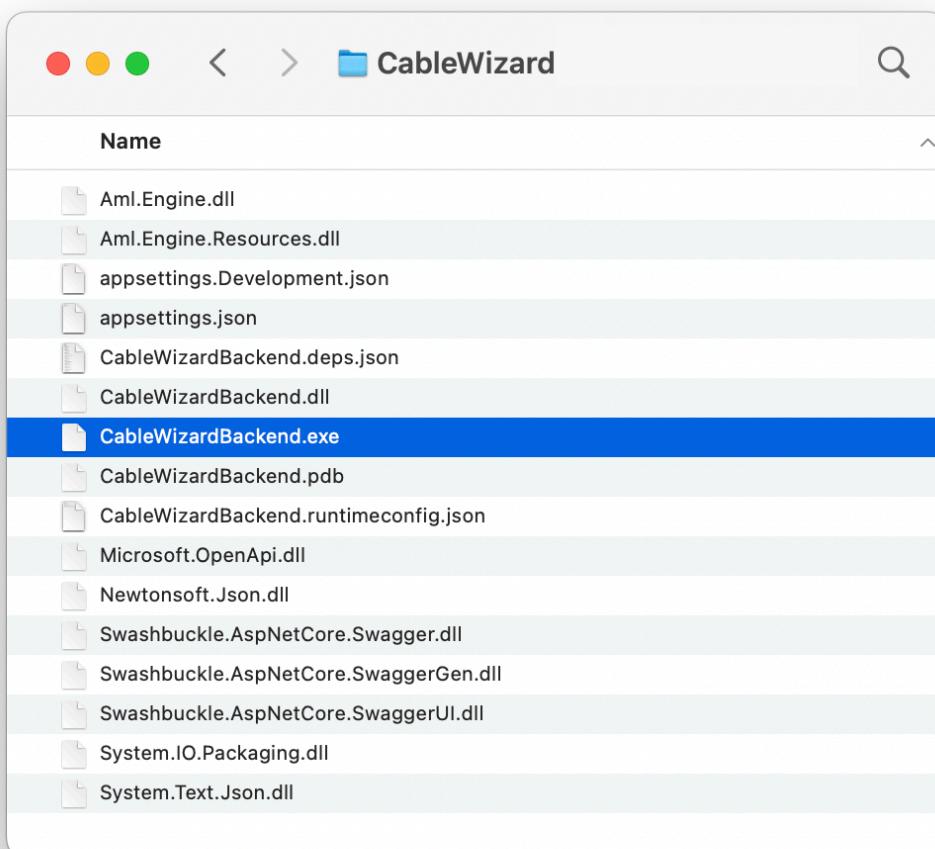
QUICK START

A copy of the Modelling Wizard is already running under <https://cable.sowiho.de/>. Please continue to the section **USING THE WIZARD** for usage instructions.

LOCAL PRODUCT SETUP

FILE STRUCTURE AND LOCATIONS

The Application is delivered as an executable. Double click the file highlighted using your Windows™ Explorer to start the backend and web server.



For the front end to be able to display data, the back end has to be running and ready to receive requests. Once the application is running, you can access the application in your browser under <http://localhost:5000/>.

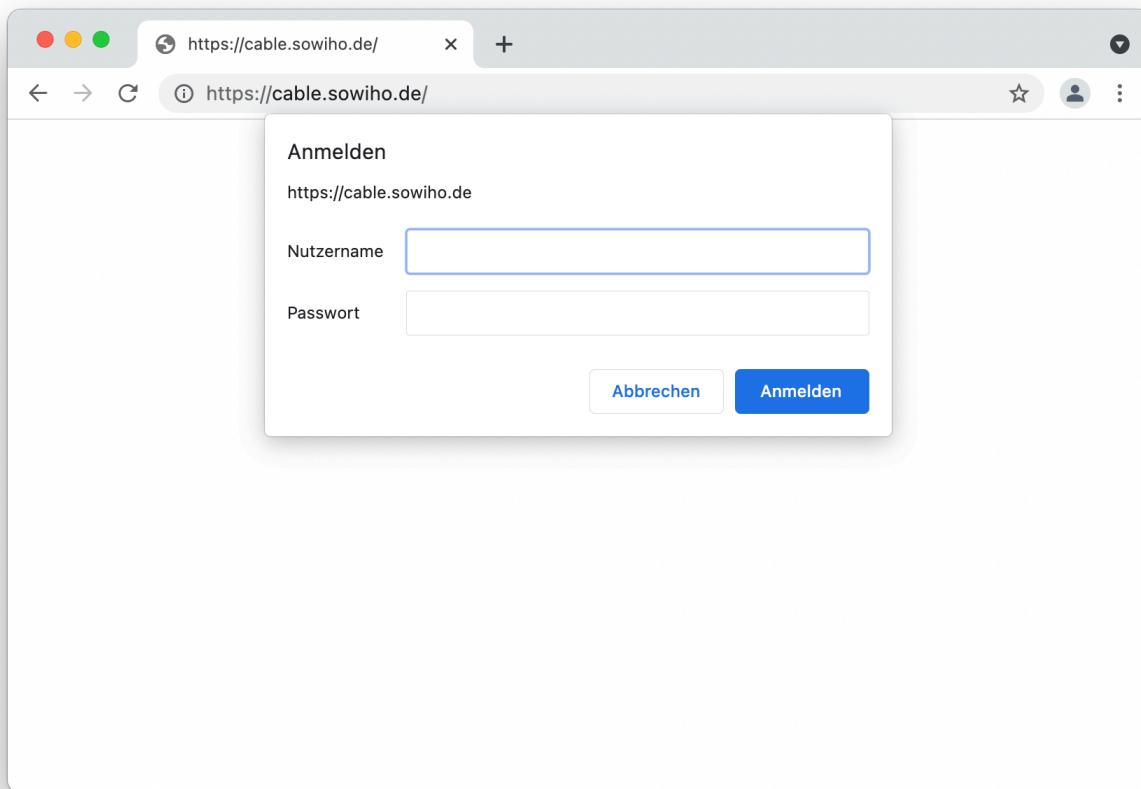
REQUIREMENTS

Requirements	Software	Version	Link
Backend	Microsoft® Windows™	10 (21H2) or greater	https://www.microsoft.com/en-us/software-download/windows10ISO
Backend	.NET 6.0 SDK x64	6.0.0 or greater	https://dotnet.microsoft.com/en-us/download
Frontend	Firefox, alternatively Google Chrome	100 or greater	https://www.mozilla.org/en-US/firefox/new/

USING THE WIZARD

(OPTIONAL) USER AUTHENTICATION

If required, user authentication can be provided by browser-based means. This option is only available if the frontend is hosted externally, meaning not running in a local environment.



Credentials for the test environment:

Username: user

Password: Wk!EsbrrUgKspYqR9@*P-

WIZARD HOMEPAGE AND NAVIGATION

The screenshot shows the 'Cable Wizard' application interface. On the left, there's a search bar labeled 'Search cables' with a magnifying glass icon. Below it are two sections for filtering by length and width, each with 'Minimum' and 'Maximum' input fields and a toggle switch for 'Show products with unknown length' or 'width'. On the right, there are two expanded product details boxes. The top box is for 'BCC M415-M415-3A-312-PX0534-035' from 'ProductLibrary_BALLUFF', listing properties like Material (Zinc), Length (224), Width (68), Height (38), Weight (695), Min. Temperature (-5), and Max. Temperature (70). The bottom box is for 'BCC M313-M313-30-300-EX43T2-050' from 'ProductLibrary_BALLUFF', showing similar property details.

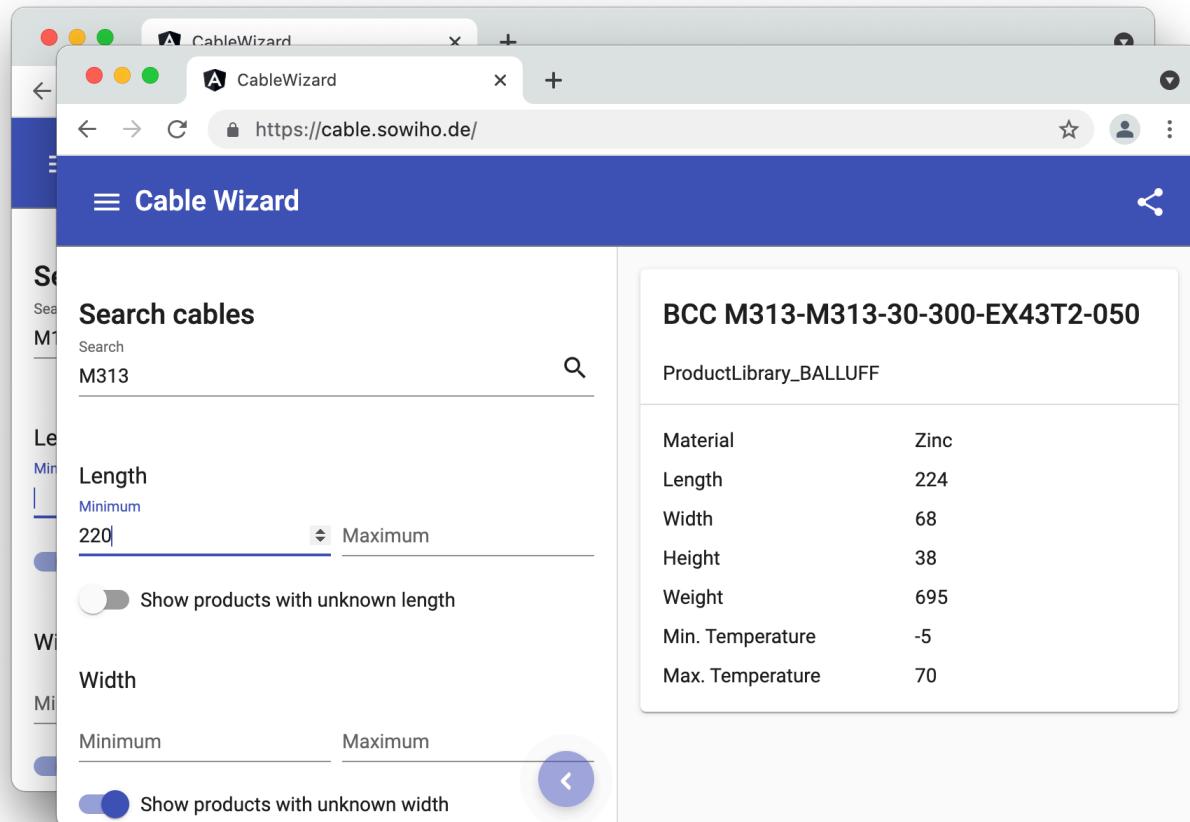
BCC M415-M415-3A-312-PX0534-035	
ProductLibrary_BALLUFF	
Material	Zinc
Length	224
Width	68
Height	38
Weight	695
Min. Temperature	-5
Max. Temperature	70

BCC M313-M313-30-300-EX43T2-050	
ProductLibrary_BALLUFF	

The Cable Wizard's home page consists of a filter menu on the right side as well as a cable overview list on the left side. Clicking on a cable will open the cable details view further explained under the point **VIEWING CABLE DETAILS**. If the user desires to get back to the cable overview list, they can use the browser back buttons to navigate back out of the cable details view.

FILTERING CABLES

If the user desires to narrow down the list of cables displayed, they can enter filter data on the right side of the home screen.



VIEWING CABLE DETAILS

Once the user clicks on a cable, the cable details view will open. In this view, all lists are clickable and can be expanded to reveal further details.

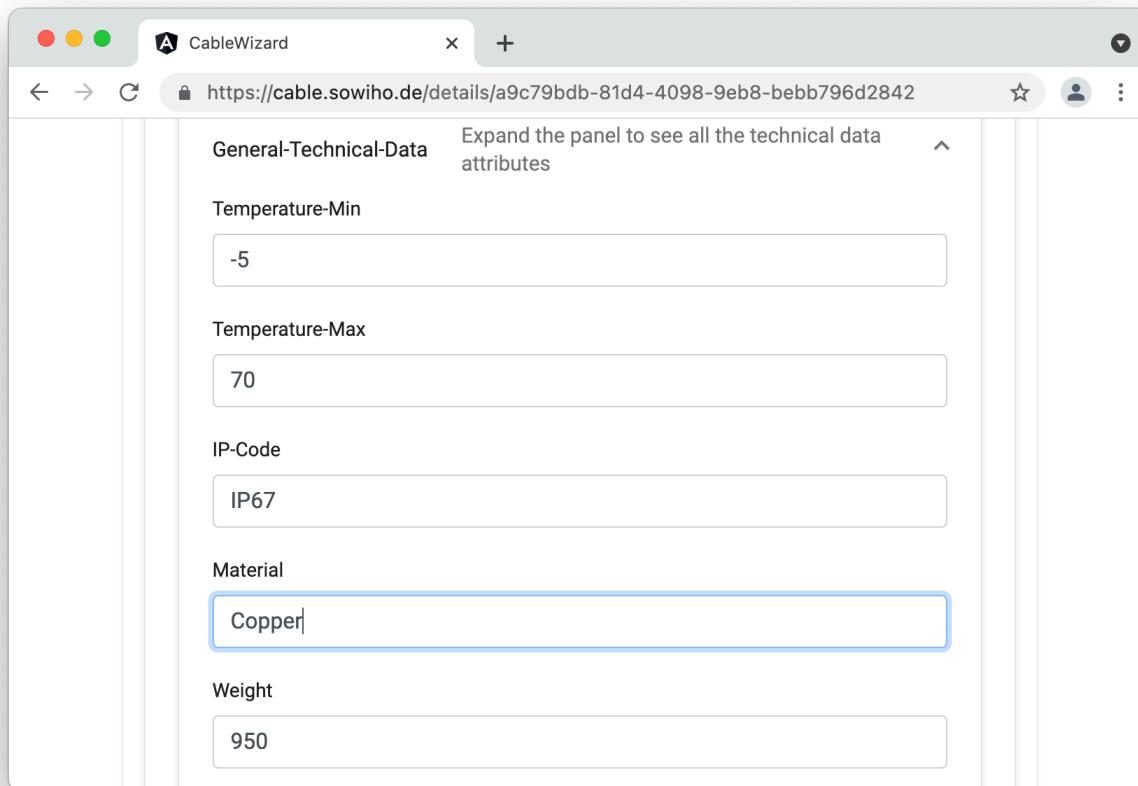
The screenshot shows a web browser window titled "CableWizard" with the URL <https://cable.sowiho.de/details/0dbe2617-6775-42e1-8a5a-6c4b955a5f55>. The main content area is titled "Configure cable". It contains the following fields:

- Cable name: BCC M415-M415-3A-312-PX0534-035
- ID: 0dbe2617-6775-42e1-8a5a-6c4b955a5f55
- Library: ProductLibrary_BALLUFF
- Attributes: A button labeled "Expand the panel to see all attributes" with a dropdown arrow.

The screenshot shows the same web browser window with the "Connectors" panel expanded. The panel has a header "Connectors" with an expand/collapse arrow and a sub-section "Connector Name" containing the value "M12A5PinFemale". Below this, there are three collapsed sections: "Pin", "PinType", and "Connected to wire" (with value "C1").

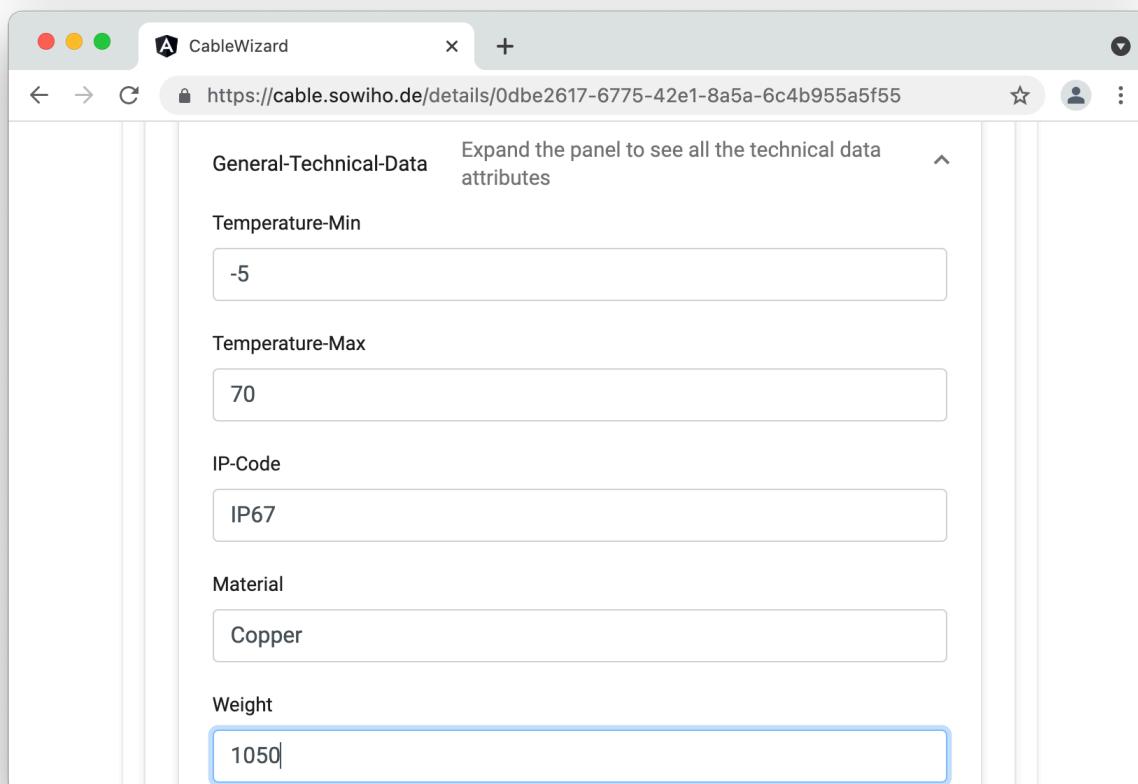
EDITING CABLE DETAILS

Editing cable details is possible in the cable details view. For example, once the user expands the *Attributes* list, they are able to edit general technical details of the cable like material and weight.



The screenshot shows a web browser window titled "CableWizard" with the URL <https://cable.sowiho.de/details/a9c79bdb-81d4-4098-9eb8-bebb796d2842>. The page displays a form for editing cable details. A callout box points to the "Material" field, which contains the value "Copper".

General-Technical-Data	Expand the panel to see all the technical data attributes
Temperature-Min	-5
Temperature-Max	70
IP-Code	IP67
Material	Copper
Weight	950

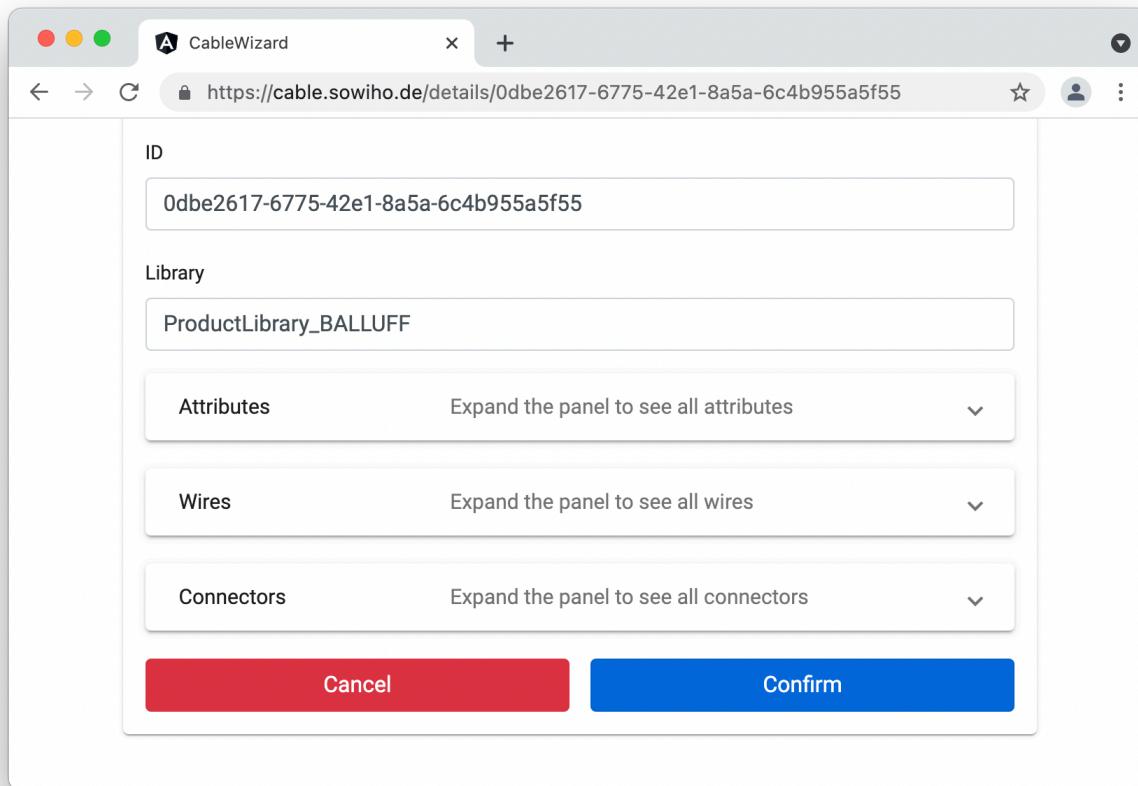


The screenshot shows a web browser window titled "CableWizard" with the URL <https://cable.sowiho.de/details/0dbe2617-6775-42e1-8a5a-6c4b955a5f55>. The page displays a form for editing cable details. A callout box points to the "Weight" field, which contains the value "1050".

General-Technical-Data	Expand the panel to see all the technical data attributes
Temperature-Min	-5
Temperature-Max	70
IP-Code	IP67
Material	Copper
Weight	1050

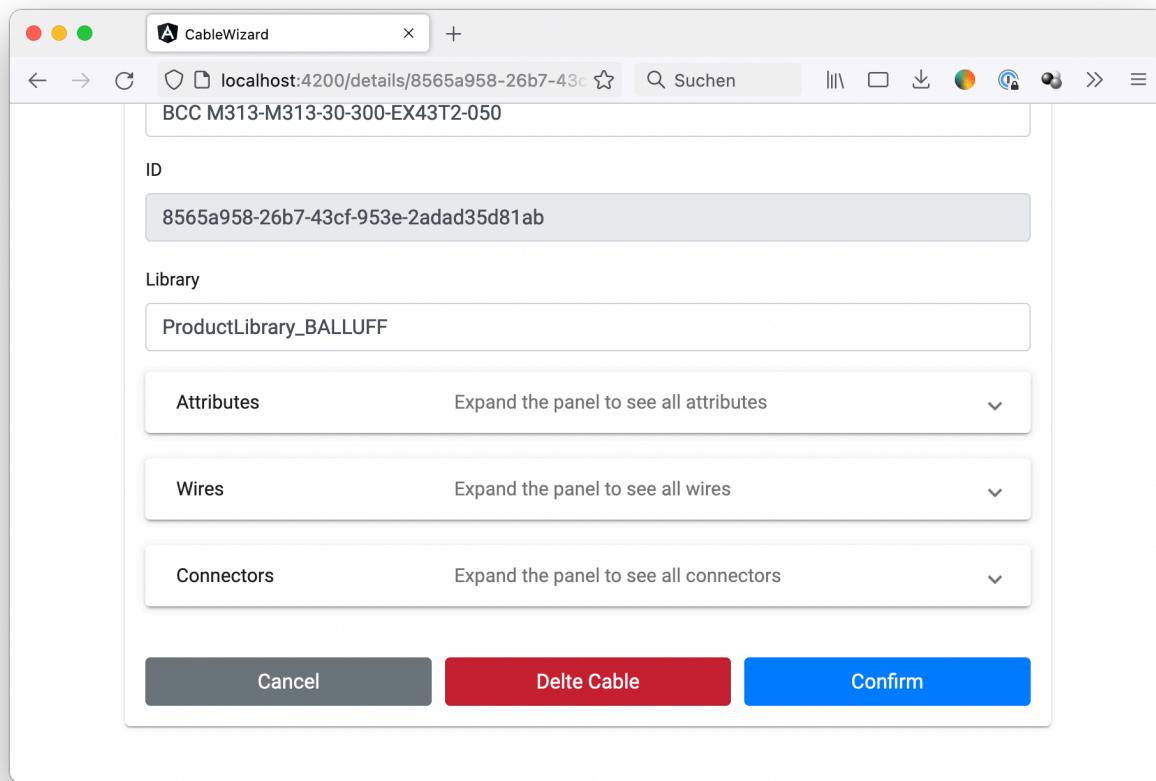
SAVING CHANGES

Changes made to a cable can either be discarded or saved to file by the backend by either choosing Cancel or Confirm.



DELETING A CABLE

Cables can be deleted by pressing the „Delete Cable“ button in the cable detail view.



DOWNLOADING AML FILES

The entire display list can be downloaded through the button in the cable overview list. The downloaded library contains all cables visible in the overview list.

