

6. MAI 2022

TEAM 2

MODELLING WIZARD FOR CABLES

USER- DOCU

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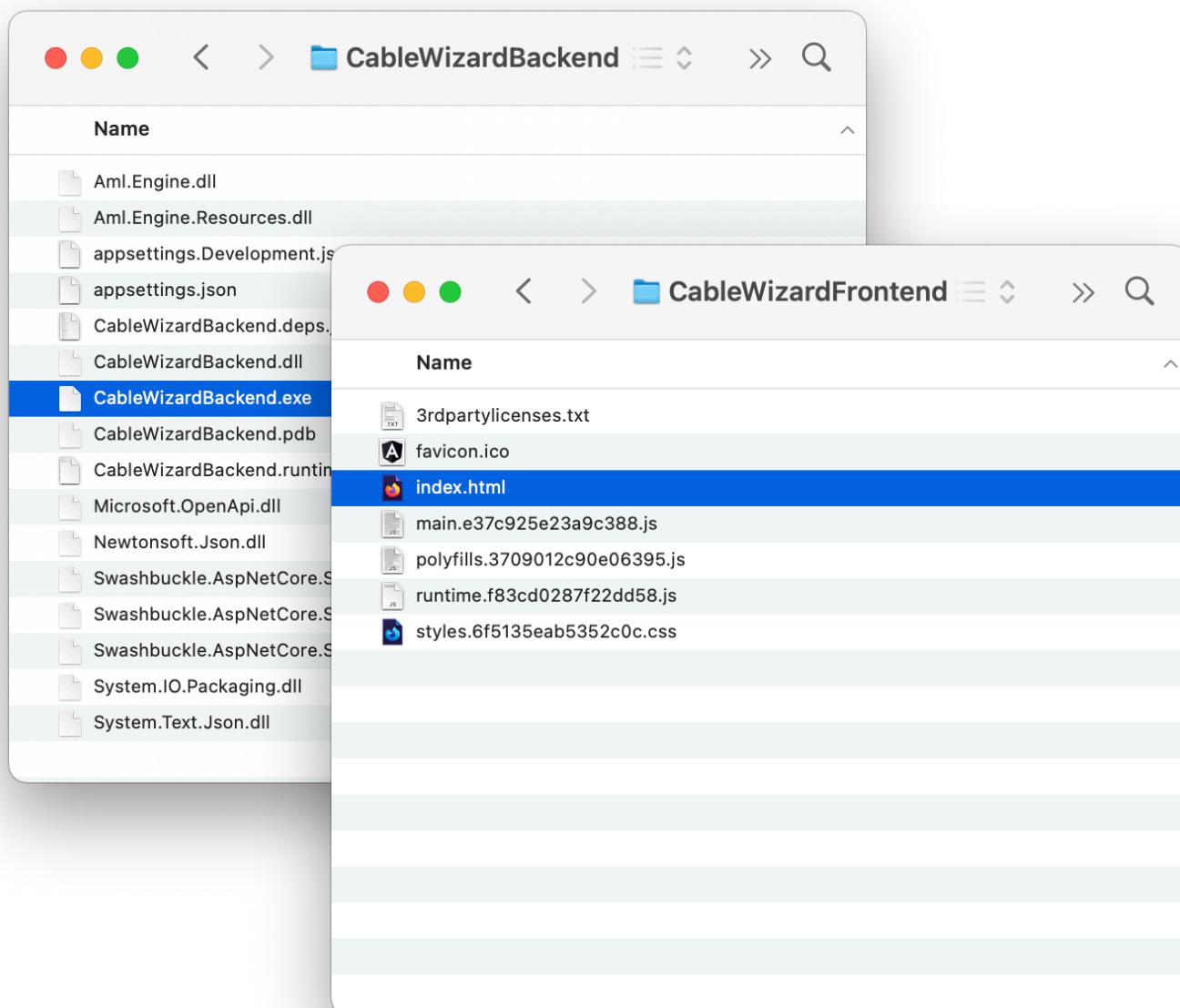
QUICK START

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 split up into an executable for the back end and a browser-compatible index.html file for loading the front end locally in the browser.

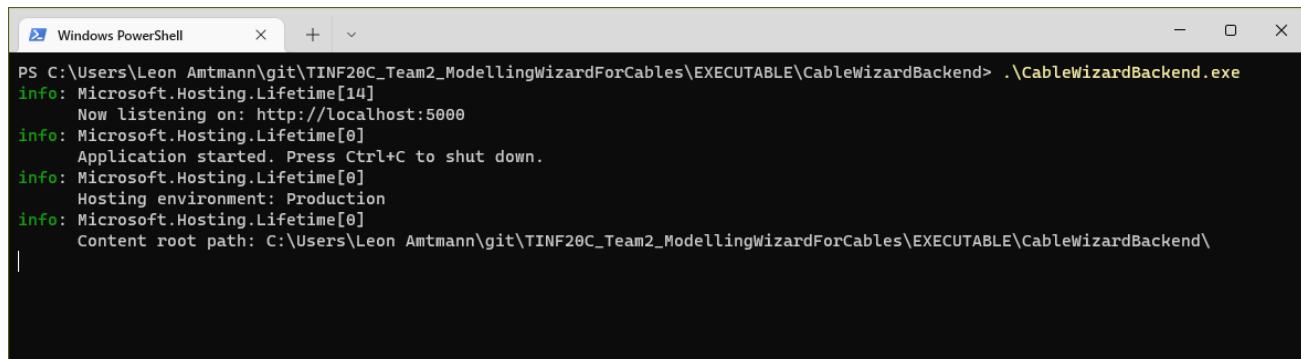


For the front end to be able to display data, the back end has to be running and ready to receive requests.

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/

RUNNING THE BACKEND



```
PS C:\Users\Leon Amtmann\git\TINF20C_Team2_ModellingWizardForCables\EXECUTABLE\CableWizardBackend> ./CableWizardBackend.exe
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://localhost:5000
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Production
info: Microsoft.Hosting.Lifetime[0]
      Content root path: C:\Users\Leon Amtmann\git\TINF20C_Team2_ModellingWizardForCables\EXECUTABLE\CableWizardBackend\
```

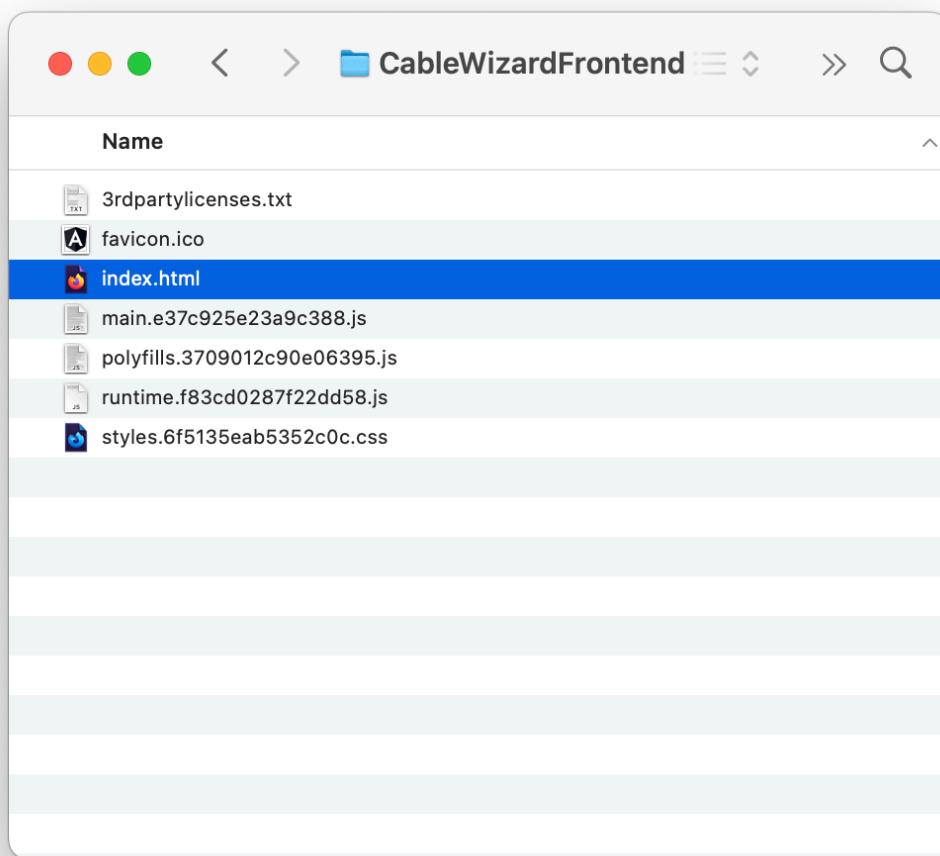
The backend is a command line application which must be run in a terminal window opened by the user.

To run the backend:

1. open a terminal window by pressing the **WINDOWS KEY + R** and typing **POWERSHELL.EXE**.
2. navigate to the location of the backend files using **cd**.
3. execute the backend by typing **./CableWizardBackend.exe** and hitting **ENTER**.

RUNNING THE FRONTEND

To run the frontend, double click the **index.html** file.



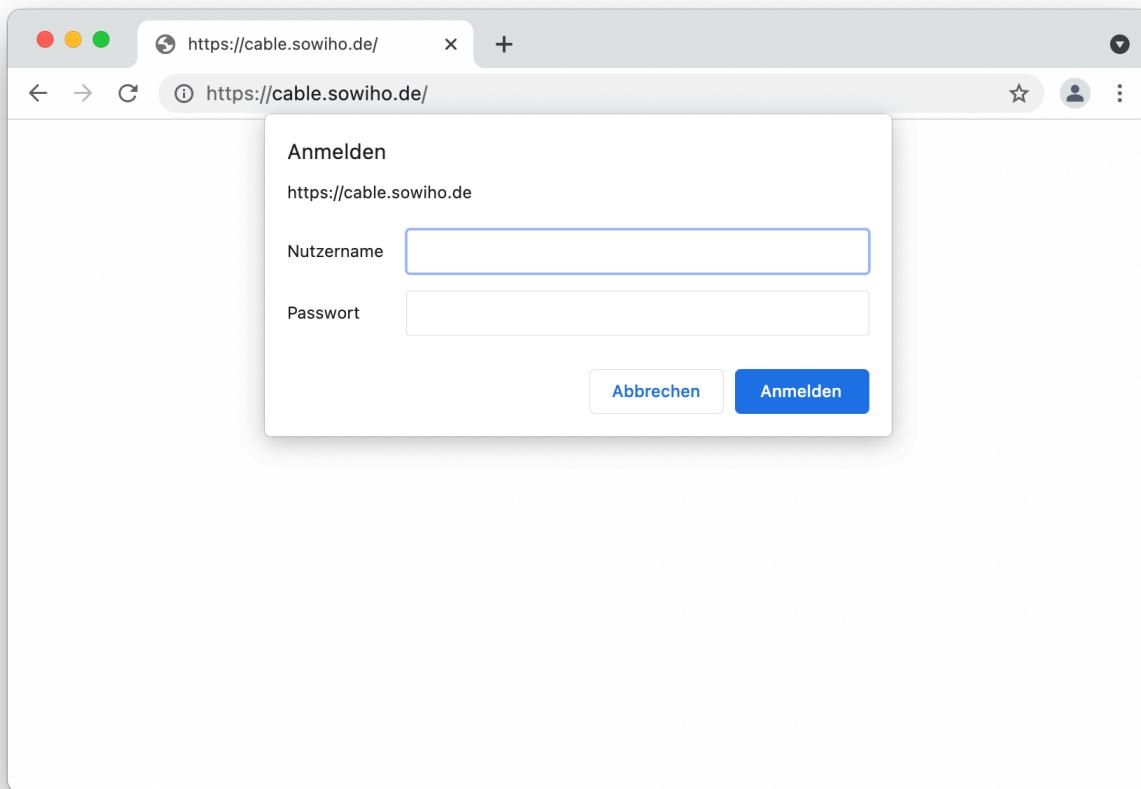
It should automatically open Firefox or Google Chrome, depending on operating system browser defaults.

If the backend is running correctly, the frontend will display cables on the right side of the screen.

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-

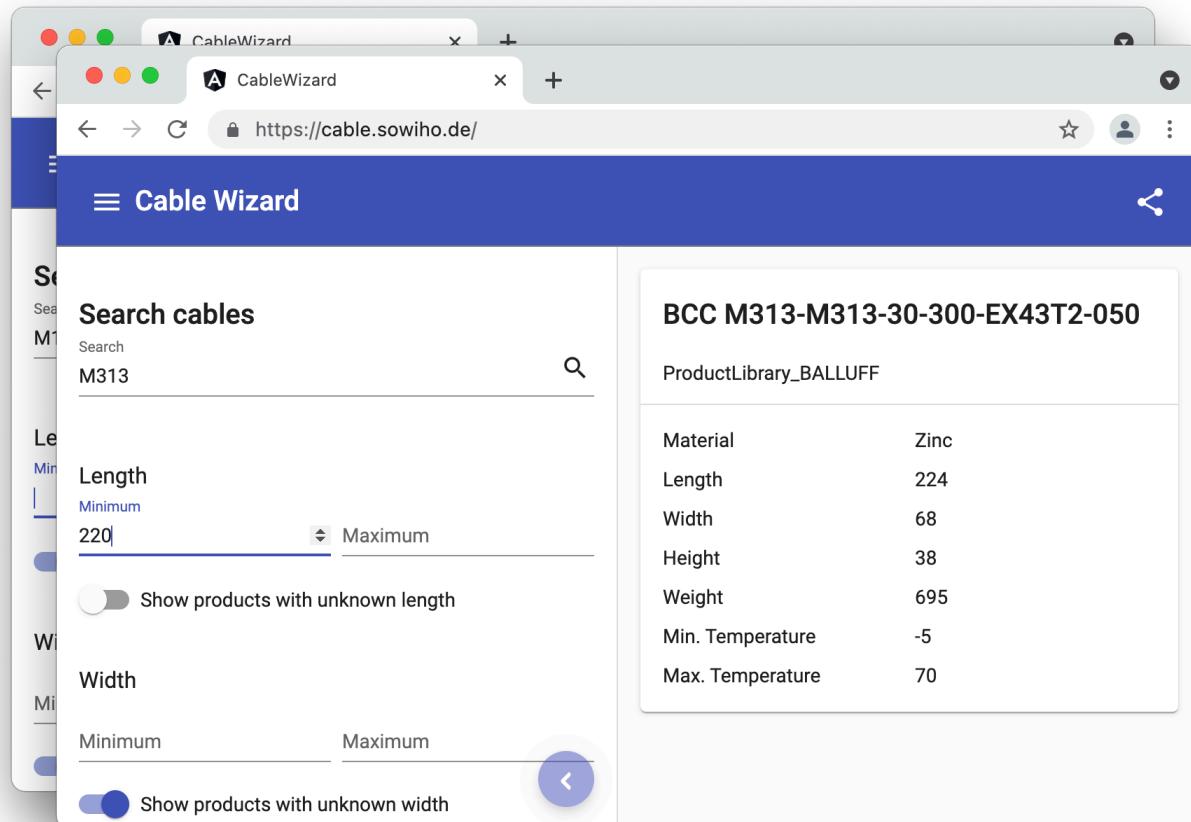
WIZARD HOMEPAGE AND NAVIGATION

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, two cable details cards are displayed: 'BCC M415-M415-3A-312-PX0534-035' and 'BCC M313-M313-30-300-EX43T2-050'. Each card lists product information like Material (Zinc), Length (224), Width (68), Height (38), Weight (695), Min. Temperature (-5), and Max. Temperature (70). The cards also mention '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

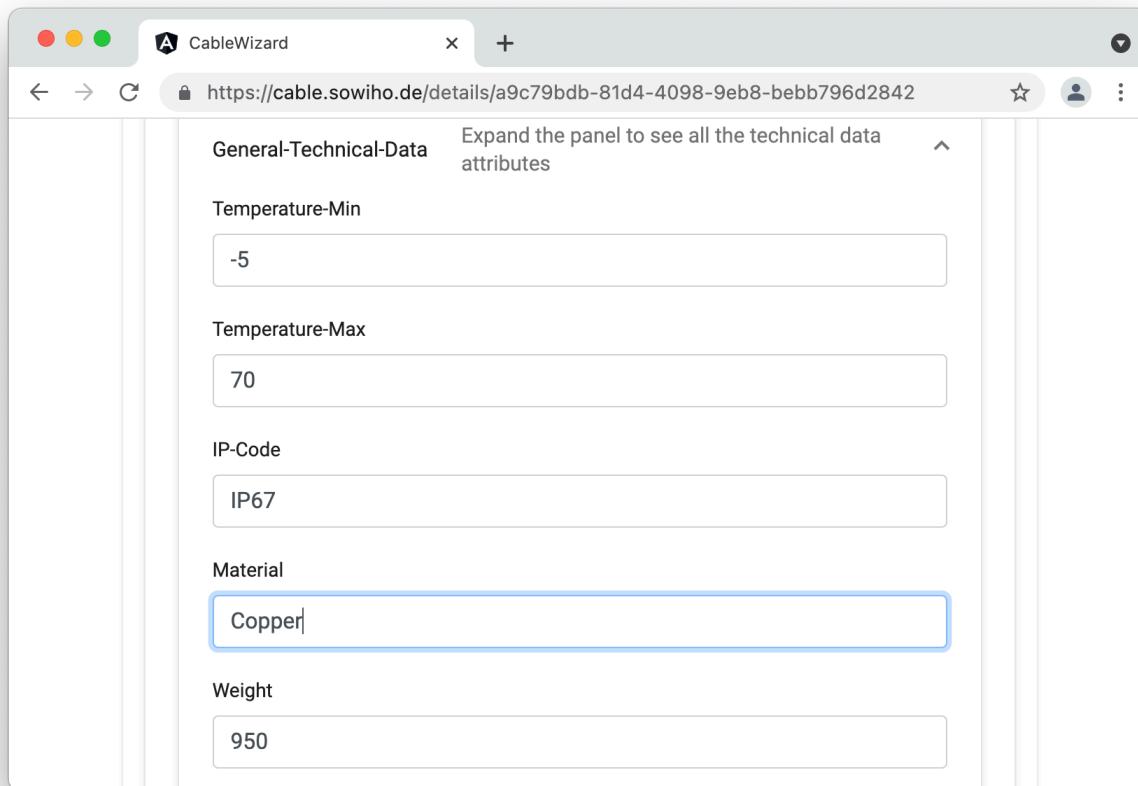
Once the user clicks on a cable, the cable details view will open. In this view, all lists are clickable and can be expanded to reveal further details.

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 four input fields: "Cable name" with the value "BCC M415-M415-3A-312-PX0534-035", "ID" with the value "0dbe2617-6775-42e1-8a5a-6c4b955a5f55", "Library" with the value "ProductLibrary_BALLUFF", and an "Attributes" section with a button to "Expand the panel to see all attributes".

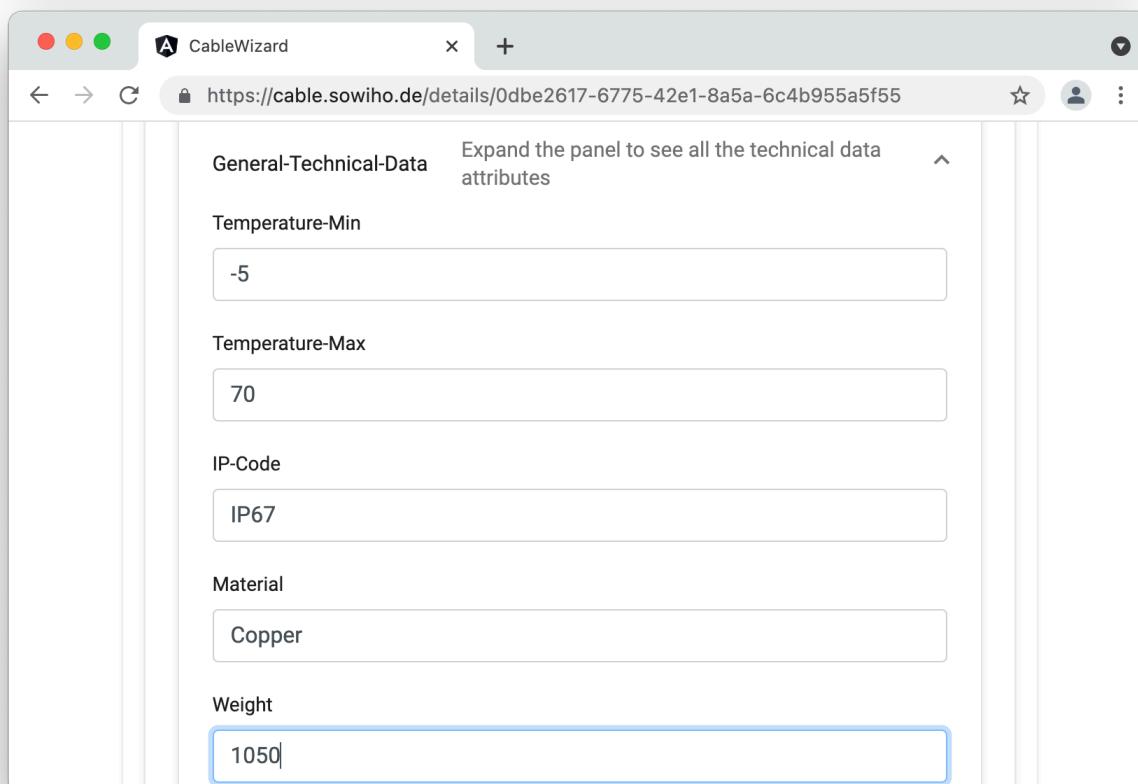
The screenshot shows the same web browser window with the "Connectors" panel expanded. The "Connectors" section has a button to "Expand the panel to see all connectors". Below it, the "Connector Name" field contains "M12A5PinFemale". Underneath, there are three collapsed sections labeled "Pin", "PinType", and "Pin-Name: 1". The "Connected to wire" section contains the 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.



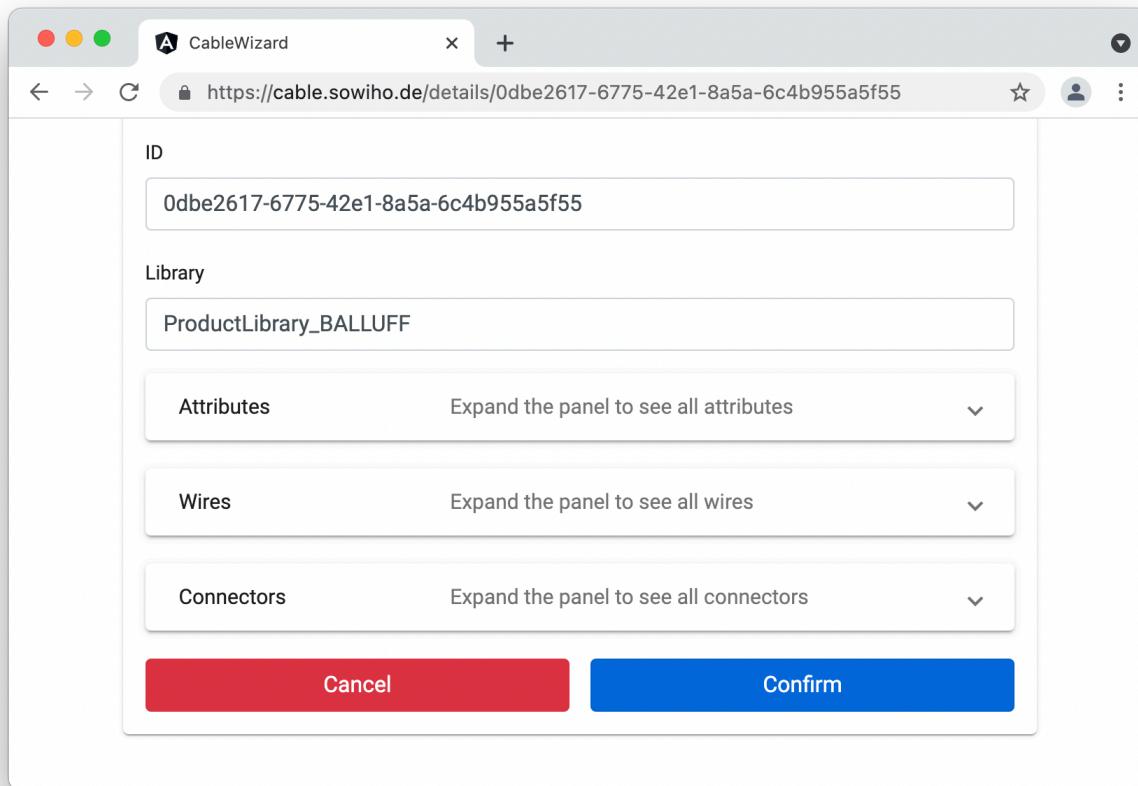
The screenshot shows the 'CableWizard' application window with the URL <https://cable.sowiho.de/details/a9c79bdb-81d4-4098-9eb8-bebb796d2842>. The 'General-Technical-Data' panel is expanded, displaying fields for Temperature-Min (-5), Temperature-Max (70), IP-Code (IP67), Material (Copper), and Weight (950). The 'Material' field is currently selected, indicated by a blue border around its input box.



The screenshot shows the 'CableWizard' application window with the URL <https://cable.sowiho.de/details/0dbe2617-6775-42e1-8a5a-6c4b955a5f55>. The 'General-Technical-Data' panel is expanded, displaying fields for Temperature-Min (-5), Temperature-Max (70), IP-Code (IP67), Material (Copper), and Weight (1050). The 'Weight' field is currently selected, indicated by a blue border around its input box.

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

DOWNLOADING AML FILES