# Table: Cords

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| **Schema:** | SystemSchematicBuilder |
| **Responsible:** | Kurt A Vedros |

Table holds all information on the cord part.

Cord – A malleable cylindrical object used to transport electricity.

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| **Column Name** | **Data type** | **Description** |
| CordID | Int | Primary Key to Cords system. |
| Name | String | The User given name of the cord. My be left blank. |
| Length | Float | The overall length of the cord given in meters. |
| VoltageDropRate | Float | The estimated amount that the voltage in the cord loses over a certain distance. |

**Procedures (Database functions)**

* sprocGetCords
  + Returns a list of Cord objects that are currently stored in the database.
* sprocGetCord
  + Returns a Cord object that is currently stored in the database that has the given Cord ID number.
* sproc\_CordAdd
  + Stores the given Cord object into the database and returns its assigned Cord ID number.
* sproc\_CordUpdate
  + Changes information of the Cords Table in the database with the given primary key to the given Cord class object.
* sproc\_CordRemove
  + Removes the Cord from the Cords Table with the given Cord ID number.

**DAL (Software Functions)**

* CordsGetAll()
  + Returns a list of Cord objects that are currently stored in the database.
* CordGet(int ID)
  + Returns a Cord object that is currently stored in the database that has the given Cord ID number.
* CordAdd(Cord Cord)
  + Stores the given Cord object into the database and returns its assigned Cord ID number. Returns -1 if error occurred, otherwise returns null.
* CordUpdate(Cord Cord)
  + Changes a Cord object that is currently stored in the database with the given Cord’s Cord.ID with the Cord’s information.
* CordRemove(int ID)
  + Removes the Cord object stored in the database with the given Cord ID number. Returns -1 if error occurred, otherwise returns null.