

# **Engineering Base**

# **Wiring Manager**

#### AUCOTEC AG

Oldenburger Allee 24 D-30659 Hannover Phone:+49 (0)511 61 03-0 Fax: +49 (0)511 61 40 74

www.aucotec.com

#### AUCOTEC, INC.

17177 North Laurel Park Drive, Suite 437 Livonia, MI 48152 Phone: +1 630 485 5600 Fax: +1 248 655 7800

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## **1** General Remarks

Common CAE systems normally generate wiring data analyzing corresponding electrical diagrams. By means of the wiring manager you can generate wiring data alphanumerically, i.e. the generation of wiring data is not based on the diagrams anymore.

The wiring manager is a tool to handle cables, cable destinations and to connect plugs and sockets to devices either directly or via a cable. It contains a signal /potential workflow to manage systems with complex signal definitions.

#### **1.1 Basic Restrictions**

In order to be able to wire a cable using the wiring manager, the cable

- Must already have been created with its cores,
- or it has to be created using the wiring manager.

### **1.2 Functional Description**

The wiring manager can be started within a project from the **Equipment** folder on devices, units or cables. On the shortcut menu, click **Wiring Manager** or **Select Assistant**.

erminal Block Diagram basGraphicConfig GraphicConfig erminal Block Diagram Main Open Template erminal Block Wizard Terminal Block Wizard est Sheet basMain MakeASheet polboxXmlError Main gTestShape ypical Copy Wizard Typical Copy ypical Select Wizard Typical Copy ypical Select Wizard Typical Select pdate Dialog from Type Wizard Wizard Update Dialog from Type Wizard pdate In Catalog Wizard Wizard Update From Catalog Wizard pdate in Catalog Wizard Wizard Update in catalog wizard erify Cable and Wire Destinations Main Verify Cable and Wire Destinations firing Manager Wizard Wiring Manager	roject	Modul	Macro
erminal Block Diagram Main Open Template erminal Block Diagram Main Configuration erminal Block Wizard Terminal Block Wizard est Sheet basMain MakeASheet obloxXmError Main gTestShape ypical Copy Wizard RefreshNetWiring ypical Copy Wizard Typical Copy ypical Select Wizard Typical Copy ypical Select Wizard Update Dialog from Type Wizard pdate From Catalog Wizard Update Dialog from Type Wizard pdate in Catalog Wizard Wizard Update From Catalog Wizard pdate in Catalog Wizard Wizard Update in catalog erify Cable and Wire Destinations Main Verify Cable and Wire Destinations firing Manager Wizard Wiring Manager	erminal Block Diagram	basGraphicConfig	GraphicConfig
erminal Block Diagram Main Configuration erminal Block Wizard Vizard Terminal Block Wizard est Sheet basMain MakeASheet boolboxXmlError Main gTestShape ypical Copy Wizard RefreshNetWiring ypical Select Wizard Typical Copy ypical Select Wizard Typical Select pdate Dialog from Type Wizard Wizard Update Dialog from Type Wizard pdate From Catalog Wizard Update From Catalog Wizard pdate in Catalog Wizard Wizard Update From Catalog Wizard pdate in Catalog Wizard Wizard Update in catalog erify Cable and Wire Destinations Main Verify Cable and Wire Destinations Wizard Wizard Wire Manager	erminal Block Diagram	Main	Open Template
erminal Block Wizard Wizard Terminal Block Wizard set Sheet basMain MakeASheet boolboxXmlError Main gTestShape ypical Copy Wizard RefreshNetWiring ypical Copy Wizard Typical Copy ypical Select Wizard Typical Select bdate Dialog from Type Wizard Wizard Update Dialog from Type Wizard pdate From Catalog Wizard Update From Catalog Wizard pdate in Catalog Wizard Wizard Update From Catalog Wizard pdate in Catalog Wizard Wizard Update in catalog erify Cable and Wire Destinations Main Verify Cable and Wire Destinations Wizard Wizard Wiring Manager	erminal Block Diagram	Main	Configuration
est Sheet basMain MakeASheet polboxXmlError Main gTestShape ypical Copy Wizard RefreshNetWiring ypical Copy Wizard Typical Copy ypical Select Wizard Typical Select pdate Dialog from Type Wizard Wizard Update Dialog from Type Wizard pdate in Catalog Wizard Update From Catalog Wizard pdate in Catalog Wizard Update in catalog erify Cable and Wire Destinations Main Verify Cable and Wire Destinations Wizard Wiring Manager	erminal Block Wizard	Wizard	Terminal Block Wizard
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vpical Copy     Wizard     RefreshNetWiring       vpical Copy     Wizard     Typical Copy       vpical Select     Wizard     Typical Select       pdate Dialog from Type Wizard     Wizard     Update Dialog from Type Wizard       pdate From Catalog Wizard     Wizard     Update From Catalog Wizard       pdate in Catalog Wizard     Wizard     Update From Catalog Wizard       prify Cable and Wire Destinations     Main     Verify Cable and Wire Destinations	oolboxXmlError	Main	gTestShape
vpical Copy     Wizard     Typical Copy       vpical Select     Wizard     Typical Select       pdate Dialog from Type Wizard     Wizard     Update Select       pdate From Catalog Wizard     Wizard     Update From Catalog Wizard       pdate in Catalog Wizard     Wizard     Update From Catalog Wizard       pdate in catalog     Wizard     Update in catalog       erify Cable and Wire Destinations     Main     Verify Cable and Wire Destinations	ypical Copy	Wizard	RefreshNetWiring
vpical Select     Wizard     Typical Select       pdate Dialog from Type Wizard     Wizard     Update Dialog from Type Wizard       pdate From Catalog Wizard     Wizard     Update From Catalog Wizard       pdate in Catalog Wizard     Wizard     Update in catalog       erify Cable and Wire Destinations     Main     Verify Cable and Wire Destinations	ypical Copy	Wizard	Typical Copy
pdate Dialog from Type Wizard Wizard Update Dialog from Type Wizard pdate From Catalog Wizard Wizard Update From Catalog Wizard pdate in Catalog Wizard Wizard Update in catalog erify Cable and Wire Destinations Main Verify Cable and Wire Destinations irring Manager Wizard Wiring Manager	ypical Select	Wizard	Typical Select
pdate From Catalog Wizard Wizard Update From Catalog Wizard pdate in Catalog Wizard Wizard Update in catalog erify Cable and Wire Destinations Main Verify Cable and Wire Destinations irring Manager Wizard Wiring Manager	pdate Dialog from Type Wizard	Wizard	Update Dialog from Type Wizard
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erify Cable and Wire Destinations Main Verify Cable and Wire Destinations Irring Manager Wizard Wiring Manager	pdate in Catalog Wizard	Wizard	Update in catalog
i'ring Manager Wizard Wiring Manager	erify Cable and Wire Destinations	Main	Verify Cable and Wire Destinations 🛽
• • • • • • • • • • • • • • • • • • •	/iring Manager	Wizard	Wiring Manager
			) (

## 2 The Workflow

Starting the wiring manager from the equipment folder opens the following dialog:

Wiring Manager									
Destination A			1	Cable				Destination B	
Show cables separately	Group by destinations								
🚼 Cable Connections (wires) 🗮 Plu	ug List 🔀 Cable Connectio	ons (plugs)						Clear all data	1
Add cable Ad	d from catalog Filter:	Speisung	⊻ □ Ak	iv			F	leset table	
h Plug / T Posi Termi Pin	Connections	Vire Cable	Wire	Connections	Pin	Terminal	Position	Plug / Termin	-
									-
									G
0/a									0/a
6 4									89
77									20
3									3
Bridge/terminal prefabricate		Cable prefabricate	-	Bridge/terminal prefa	bricated				
				1				1	
Options					App	aly A	pply and close	Close	

Press the button **Add cable** ... to select an existing cable, or the button **Add from cata-log** ... to create a new cable from catalog data.

The following example is to be wired:



First press the button **Add from catalog** ...to select a cable from the catalog, enter a new name and select the destination folder.



When a new cable is created, it is shown with its cores in the centre of the dialog.

Destination A			(	Cable	0			Destination B	
	ب		,	Wxxx		-	y		
ow cables separately	Group by destination	ıs						Clear all date	
able Connections (wires)	Hug List	Filter		527				urear an Gata	1
	Add from catalog				1 1	*	B	eset table	
Plug / T Posi Termi	Connections	Wire Lable	Wire	Connections		l erminal	Position	Plug / Termin	-
			15-						1
1			2						
			3 PE						-
									-
									-
1									5
1									_
									00
E Bridge/terminal prefai	pricated	Cable prefabricate		Fidge/terminal prefab	icated				
Options					Apply	Ac	ply and close	Close	
NO-DOUDLOSS						100	Contraction of the second		

Use the buttons **Add Device** and **Remove device** to select or deselect devices on the left and right hand-side of the cable for wiring.

📜 Add devices	×
Project tree:	
<ul> <li>□ Docu Wiring Manager</li> <li>□ □</li> <li>□ □</li></ul>	
Selection: Docu Wiring Manager / G1	
Load completely	
OK Cancel	

After selecting devices you get the following view in the wiring manager:

										_
Desti	nation A				Cable				Destination B	
		۳			Wxxx			۳		
w cables se	parately	Group by destination	15							
ble Connec	tions (wires)	Plug List	onnections (plugs)						Clear all data	2
	······			·/						1
Add	cable	Add from catalog	Filter: Speisu	ung 🔄 🗖 Al	ktiv			F	Reset table	
Plug / T	Posi Termi	Connections	Wire 0	Cable Wire	Connections		Terminal	Position	Plug / Termin	1
			Wxxx							
-				1 📭						-
12			-2	2						£
			-33	3			_			
	1 • 1			3 ₽► PE ₽►			1	• 1		9
61	1 • 1 2 • 2			3 IP- PE IP-			1	• 1 • 2	62	₽/ ₽
G1	1 • 1 2 • 2 3 • 3			3 🕬 PE 📭			1 2 3	1 2 3	G2	a/ a
G1	1 • 1 2 • 2 3 • 3 4 • PE			380- PE 60-			1 2 3 PE	1 2 3 4	G2	()   2   2
G1	1 • 1 2 • 2 3 • 3 4 • PE			380- PE 60-			1 2 3 PE	1 2 3 4	G2	a a n
G1	1 • 1 2 • 2 3 • 3 4 • PE			3∎ PE ₽			1 2 3 PE	1 2 3 4	G2	67   4   <sup>1</sup> A
G1	1 • 1 2 • 2 3 • 3 4 • PE			360 PE 60			1 2 3 PE	1 2 3 4	G2	a 14 2
G1	1 • 1 2 • 2 3 • 3 4 • PE		-48 3 -48 PE	3≌⊶ PE ₽⊶			1 2 3 PE	1 2 3 4	G2	2 A A
G1	1 • 1 2 • 2 3 • 3 4 • PE	ated	-all 3 -all pE	3 PE PE	Bridge/terminel prefa	bricated	1 2 3 PE	1 2 3 4	G2	2 a 5
G1	1 • 1 2 • 2 3 • 3 4 • PE //terminal prefabrica	ated	-all 3 -all PE	3 PE PE	Bidge/terminal prefa	bricated	1 2 3 PE	1 2 3 4	62	SC YI F

Now the wiring can be started. First mark the left side pin 1 of device G1 and the left

hand side of wire 1. Press the button **Connect** (on the left) to wire the pin with the left side of the wire.

ring Manager									
Destination A				Cable				Destination B	
G1 <mark>-</mark>	<mark>_</mark>					_	y		
	r_			Wxxx *					
о. II II Г									
								Clear all data	
Cable Connections (wires)	Plug List	nnections (plugs)	·]					Clear all data	
Add cable A	Add from catalog	Filter: Speisu	ing 🝸 🗖 Al	ktiv			R	eset table	
Plug / T Posi Termi	Connections	Wire 0	Cable Wire	Connections		Terminal	Position	Plug / Termin	
G1 1 1	<b>→</b> 1	Wxxx*							
		1	1 📭						
	_		2						5
19		- PE	PE 📭						-
						1 •	1	52	
G1 2 2		-				3	3	- G2	-
4 • PE						PE	• 4		5
		-		-	-				
		-							
3									2
	Ind	Coble or	afabricate		hinatod				
	(cu	L'able pre	stabilicate	I Diagenterminal prei					
I Bridge/terminal prefabrica						127		1225	

Repeat this process with all relevant pins and wires. To remove an existing connection

press the button **Disconnect** . Using the button **Select all** you can also select all pins and wires of one side to apply the selection en bloc.

Use the **Ctrl-key** to select explicitly a set of pins / wires for wiring. In addition a selection of one wire left and right with one left and right side pin can be applied on both sides

simultaneously by pressing the button

ing Manager										_
Desti	nation A					Cable			Destination B	
	G1 <b>-</b>	<mark>4</mark>			٧	<b>∀</b> xxx *		🞜 G2		
		_								
how cables se Cable Connec	tions (wires)	Group by destination	onnections (pl	olugs)					Clear all data	
Add	cable	Add from catalog	Filter: S	peisung	🝸 🗆 Ak	tiv		F	Reset table	
Plug / T	Posi Termi	Connections	Wire	Cable	Wire	Connections	Terminal	Position	Plug / Termin	
	1 • 1	<b>-1</b>	Wxx	×× *		10-	1	1		
🗐 🔤 G1	3 • 3	-33	1		1	30-	2	- 3	— G2	-
	4 • PE	- PE	2		2	PE P	PE	- 4		C
6			3		3					
4			PE		PE 💻			-		0/
	1 • 1		1					• 1	<u>91</u>	-
4 G1	2 • 2	-	- 1				2	2	G2	
	3 • 3		- 1				3	3	-	
9	4 - FE		- 1					4		5
										-
1			1							Tran
5										V
🗖 Bridge	/terminal prefabrica	ted	Cabl	le prefabricate		Bridge/terminal prefabricated				
	1						1		Ĩ	

The resulting view after all pins and wires are wired. In addition the top dialog shows the cable and its connected devices.

2	Wiring Manager					<u>- 🗆 ×</u>
	Destination A		Cable		Destination B	
	G1 🛃	_	Wxxx *	—	<b></b> G2	

Here is another example with plugs to devices and cables.



#### Proceed as follows:

Destination A				Cable				Destination B	
	2_P1			Wxxx *		P2_	¢		
w cables separately able Connections (wires)	F Group by dest	tinations Cable Connecti	ons (plugs)					Clear all data	
Add cable	Add from catalog	Filter:	Speisung 🔽 🗖	Aktiv	Connection	Terminal	Position	Reset table	]
	and for the set								
P1 (Wxxx)	- 1 - 2 - 3 - 9	-411 -412 -413	Wxxx *	1	10- 20- 30- PE 0-	1		P2 (Wxxx)	
P1 (W500)	1 2 3 PE		Value         Cable           Wxxx	1 2 3 PE	1 Province dation	1 2 3 PE 1		P2 (Wixx)	
P1 (Waxx) P1 (Waxx)	1 1 2 3 PE 1 1 2 3 3 1 2 2 3 1 2 2 3 1 2 2 3 1 2 2 3 3 1 2 2 3 3 1 2 2 2 3 3 1 2 2 2 3 3 1 2 2 2 3 1 2 2 3 1 2 2 2 3 1 2 2 3 1 2 2 2 3 1 2 3 1 2 2 3 1 2 2 3 1 2 3 1 2 1 2	-a1 -a2 -a3 -aP	Vite Cable	1 2 3 PE	PE 20-	1 2 3 PE 1 2 3 PE		P2 (W/xxx) P2 (W/xxx)	h ha ha ha ha h
P1 (Wax)	1 1 2 3 9 PE	-a12 -a13 -a19 -a19	Vare Cable Vare Cable Vare Cable Vare Cable	PE	PE 12-	1 2 3 PE 1 2 3 9 PE		P2 (Wxxx) P2 (Wxxx)	I - I - I - I - I - I - I - I - I

First wire the cable plugs to the cable.

To mount the plugs, switch to the tab **Plug list**. Main scope of this view is to connect and disconnected cables and/or devices.

De	stination A			Cable			Destination B
		<b>≥</b> P1		Wxxx		P2 🚅	
how cables	separately	Group by destin	ations				
Cable Conn	ections (wires)	Plug List 🛃 Cab	le Connections (plugs)				Clear all data
Add device	BS						
rt of	Name	Comment	Cable / Machine	"Harting"	A	B	Connect
Wxxx Wxxx	P1 P2		Cable ( Wxxx) Cable ( Wxxx)				Connect with cable
							Detailed connection.
							Disconnect
							Reconnect
							Legend - fits the other side
							- connected to the other side
					101		
							- connected elsewhere

To add the device plugs to the list press the button **Add Device**. Use the **Ctrl-Key** to select and add several devices.

The second secon
Project tree:
Docu Wiring Manager V1 G1 G2 Wxxx Vxxx Termination Left Termination Right P1 P2
Selection: Docu Wiring Manager / G2 / J2
Load completely
OK Cancel

	estination A			Cable			Destination B
D_P		D P1			P2 🕑		
		-					
Show cables	separately	Group by destina	ations				
							Clear all data
Lable Lonn	ections (wires)		le Connections (plugs)		(A)		
Add device	es				A: J2 (G2)		
Part of	Name	Comment	Cable / Machine	"Harting"	A	В	
⊃= G1	J1		-		1-C		Lonnect
- 60	a particular		and the second se				
- 62	J2				2 -C		Connect with cable
D= GZ D= Wxxx	J2 P1		Cable ( Wxxx)		2 <b>-C</b> 3 <b>-C</b>		Connect with cable
D= Wxxx D= Wxxx D= Wxxx	J2 P1 P2		Cable ( Wxxx) Cable ( Wxxx)		2 -C 3 -C PE -C		Connect with cable Detailed connection.
D= Wxxx D= Wxxx	J2 P1 P2		Cable ( Wxxx) Cable ( Wxxx)		2 -C 3 -C PE -C		Connect with cable Detailed connection. Disconnect
D= ⊌xxx D= Wxxx D= Wxxx	J2 P1 P2		- Cable (Wxxx) Cable (Wxxx)		2 -C 3 -C PE -C		Connect with cable Detailed connection.
D= Wxxx D= Wxxx	J2 P1 P2		Cable (Wxxx) Cable (Wxxx)		2 -C 3 -C PE -C		Connect with cable Detailed connection. Disconnect Reconnect
≫Wxxx ≫Wxxx ≫Wxxx	J2 P1 P2		Cable (Wxxx) Cable (Wxxx)		2 - C 3 - C PE - C		Connect with cable Detailed connection. Disconnect Reconnect Legend
>= Wxxx >= Wxxx >= Wxxx	J2 P1 P2		Cable ( Wxx) Cable ( Wxx)		2 - C 3 - C PE - C		Connect with cable Detailed connection. Disconnect Reconnect
⊐ G2 ≫ Wxxx ≫ Wxxx	J2 P1 P2		Cable ( Wxxx) Cable ( Wxxx)		2 -C 3 -C PE -C		Connect with cable Detailed connection. Disconnect Reconnect Legend fits the other side
D= G2 D= Wxxx D= Wxxx	J2 P1 P2		Cable ( Wxxx) Cable ( Wxxx)		2 -C 3 -C PE -C		Connect with cable Detailed connection Disconnect Reconnect Legend its the other side connected to
D= Wxxx D= Wxxx D= Wxxx	J2 P1 P2		Cable (Wxxx) Cable (Wxxx)		2 -C 3 -C PE -C		Connect with cable Detailed connection Disconnect Reconnect
⇒ G2 ≫ Wxxx ≫ Wxxx	J2 P1 P2		Cable ( Wxxx) Cable ( Wxxx)		2 -C 3 -C PE -C		Connect with cable Detailed connection. Disconnect Reconnect .fits the other side .connected to
= G2 D= Wxxx D= Wxxx	J2 P1 P2		Cable ( Wxxx) Cable ( Wxxx)		2 - C 3 - C PE - C		Connect with cable Detailed connection. Disconnect Reconnect Legend . fits the other     side . connected te     the other side . connected te . connec

To connect the elements, you only select two relevant items on the left side of the list (Windows – Multi selection – Ctrl + left click). Both plugs are automatically shown aligned in the lower right pane. At first view you can see if both plugs match. For a better understanding a coloured legend is shown.

	stination A			Cable			Destination B
		Q_P1		Wxxx *		P2 _	
how cables s	eparately	Group by destina	ations				
Cable Conne	ections (wires) 🌐	Plug List 😰 Cab	le Connections (plugs)				Clear all data
Add device:	is	1			A: J1 (G1) B: P1 (W/ww)		
rt of	Name	Comment	Cable / Machine	"Harting"	A	B	Connect
G2	UU 12					14 -1	
112							
11/000	J2 P1		· Cable (W/ww)			2-0 - 2	Connect with cable
Wxxx Wxxx	92 P1 P2		Cable ( Wxxx) Cable ( Wxxx)		F	2 -C - 2 3 -C - 3 7E -C - PE	Connect with cable Detailed connection.
Wxxx Wxxx	P1 P2		Cable ( Wxxx) Cable ( Wxxx)		F	2 - C - 2 3 - C - 3 E - C - PE	Connect with cable Detailed connection. Disconnect
Wxxx Wxxx	92 P1 P2		Cable (Wxxx) Cable (Wxxx)		F	2 -C - 2 3 -C - 3 2 -C - PE	Connect with cable Detailed connection. Disconnect Reconnect
Wxxx Wxxx	92 P1 P2		Cable ( Wxxx) Cable ( Wxxx)		F	2 -C - 2 3 -C - 3 E -C - PE	Connect with cable Detailed connection. Disconnect Fleconnect Legend
Wxxx Wxxx	92 P1 P2		Cable (W/xxx) Cable (W/xxx)		F	2 - C - 2 3 - C - 3 E - C - PE	Connect with cable Detailed connection. Disconnect Reconnect Legend fits the other side
When When	P1 P2		Cable (Wxxx) Cable (Wxxx)		F	2 • C = 2 3 • C = - 3 E • C = - PE	Connect with cable Detailed connection Disconnect Reconnect Legend · fits the other side · connected t the other side

With the **Connect** button on the right both plugs are stuck together. Only pairs (plug and socket) can be connected directly. If identical connectors are marked (plug-plug; socket-socket) the **Connect** button is not active.

	stination A			Cable			Destination B
	(G1)J1 🔫	©_P1		Wxxx *		P2_C	D≕ J2 (G2)
Show cables Cable Conn	separately F ections (wires) III Pl	Group by destine	ations le Connections (plugs)		4. P2 8/4mml		Clear all data
Add device	es	Comment	Calls / Hanking	Philadian P	B: J2 (G2)	P	
= 61	I1	Commeria	Cable 7 Machine	naturig	A 1-	2-1	Connect
= 62	12				2 -	3-2	Connect with cable
= Wxxx	P1		Cable ( Wxxx)		3	<b>3-</b> 3	
Wxxx	P2		Cable (Wxxx)		PE -	D- PE	Detailed connection.
							Disconnect
							Reconnect
							Legend - fits the other side
							- connected to the other side
					2		- coppected

Existing plug-socket-connections can be dissolved with the **Disconnect** button. Using the **Detailed connection...** button to move to pin level and possibly rearrange all individual connection data.

etailed connection			×
Connections:			
G1 J1	Wxxx P1		Connect
1 <b>-C</b>	<b>-</b> 1		
2 <b>-C</b>	- 2		Discouncel
3-0	<b>-</b> 3		Disconnect
PE -C	- PE	Ţ	
Selected devices:			Use assignment rule
61 J1 4	• Wxxx P1 - 1		Store assignment rule
2 <b>-C</b> 3 <b>-C</b>	- 2 - 3		
PE -C	PE		Close

The top area of the dialog shows the real connection, whereas the bottom part shows the pins of the involved plugs. Use the buttons **Connect** and **Disconnect** to reorder the connected pins.

The view **Cable Connections (plugs)** displays the data of a connection. The assembly of a complete connection can be inspected here. Selecting a cable in the upper part of the dialog shows the appropriate information in this tab.

Selecting items below marks the corresponding connection data above and vice versa.

Death it	- 4		1		Selete -				- diantina D
Destinatio	nA		Lable					U	estination B
	(G1)J1 🗝 🕽	.P1		w	****		P2.	_ <b></b> )⊃= J2 (G2)	
w cables separa	tely T Gro	up by destinations							
ble Connections	: (wires)	ist 遅 Cable Connect	ions (plugs)						Clear all data
estination A	Term. A	Cable Terminal	Cable Plug A	Cable Wire A	Cable Wire B	Cable Plug B	Cable Terminal	Term. B	Destination
J1 (61)	1-0	- 1		-31	1 📭		1	<b>&gt;</b> 1	1.004
	2 -C 3 -C PE -C	2 -C = 2 P1 3 -C = 3 (Wixxx) PF -C = PF		P2	2-	F 2 F 2	J2 (G2)		
(01)			(		(11,000)	PF	)- PE	1000	

## 2.1 Activating Signal/Potential Workflows

In complex systems, for example satellite or rocket development, the main aspect is the signal management. Electronic components of different manufactures have to be wired regarding the signal definition. So-called ICD's (Interface Control Documents) describe the individual devices and their signals. There are always transmitters and receivers that have to be identified and wired

For this purpose you can insert or import the specific signal name of the manufacturer into the attribute **Default signal name** of each pin. The contents of this attribute is displayed in the wiring manager dialog after activation of this option.

Option <del>s</del>	×
General Cable Connections (wires) Destinations Other	1
Show which pin attribute:	
Signals	
Create potentials at: Functions/Potentials folder	
Default signal attribute:	
Color of connected wire:	
OK Cancel	

Since the devices give the signals, at this point first of all the device and cable plugs have to be connected in the view **Plug List.** 

iring Manager									
Destina	ation A			Cable				Destinatio	nB
(Res.	Box) J11-01 🔫	<b>→</b>					+	P11-01 (Harness \	V11)
(Mot	or 1) P08-01 🖃	<b>→</b>					+	D= J08-01(Hamess V	/11)
how cables sepa	arately 🗖	Group by destination							
Cable Connectio	ons (wires) 🏢 Plu	ig List 🥥 Cable Co	nnections (plugs)					Cle	ar all data
Add devices	1	1-2			A: J11-01 (Re	s. Box)			
			<u></u>		B: P11-01 (Ha	rness W11)			
Res Box	JI11.01	Lomment	Lable / Machine	Harting	· ^		-	B	Connect
Motor 1	P08-01					A -C	- A	Conr	ect with cable
Motor 2	P07-01		-			в-с	- В		
Harness W11	J07-01		•			C -C	- C	Detaile	ed connection
Harness W11	J08-01		-			D -C	- D		
Harness W11	P11-01		•			E -C	- E	[	lisconnect
					.	F -C	🗕 F	E F	leconnect
								· · · · · ·	recontrices.
								Legen	J
					-				- fits the other
									<ul> <li>connected to the other side</li> </ul>
									- connected elsewhere
Options						Apply	Ap	ply and close	Close

So the signal definition data is transmitted to the cable plugs and is shown in the wiring manager in the view **Cable Connections (wires)**.



Now the pins with the corresponding signal definitions can be wired as usual, for example the pins with the signal definition (Transmitter A and Receiver A). Select the pin A (Transmitter A) at the left and pin A (Receiver A) at the right. Use the button

**signal name** is shown. It can be replaced by unique signal name, for example Signal A.

Add S	Signal		×
۲	Create	new Signal	
N	lame:	Signal A	
0	Select ex	isting Signal	
	🛨 · 🌺 🤅	Signals	
	ſ	Old Canad	

After confirming this dialog the wiring manager shows the real signal.

📜 Wiring Manager			×
Destination A	Cable		Destination B
(Motor 1) P08-01 = ⊂ <mark>0_J08-01</mark>	W11*	P11-01 _	t≫= J11-01 (Res. Box)
بر س	(Hamess)	ٹ	
(Motor 1) D02 01			2 100 01/11 11/11
			JUS-U I(Harness W I I)
Show cables separately     Group by destinations			
💤 Cable Connections (wires) 🔠 Plug List 😼 Cable Connec	tions (plugs)		Clear all data
Add cable Add from catalog Filter	CAN Aktiv		Reset table
Plug / Ter       Signals       Terminal       Connect         J07-01	Wire     Cable     Wire       W11 (Harness)       Signal A       2       3       4       4       5       6	A (Receive A) B (Receive B) C (Receive B) C (Receive C) D (Receive C) E (Receive F) F (Receive F)	Signals Plug / Termin Signal A P11.01 (Harness W11 ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )
Options		Apply App	y and close Close