

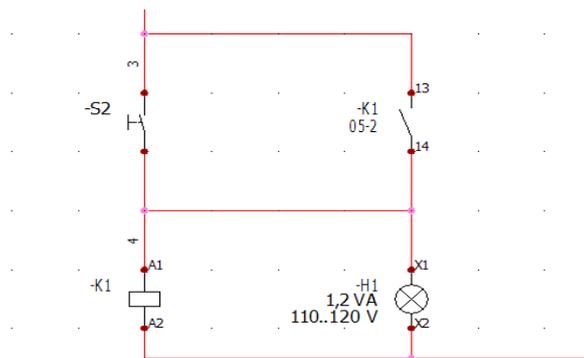
elecworks™ Tips & Tricks

Wire Connection Order

Whilst elecworks automatically calculates the shortest possible routing based on segregation and trunking fill when combined with PTC Creo (elecworks™ for PTC Creo routing module required), the user can predetermine the connection order for the purposes of wire from-to lists.

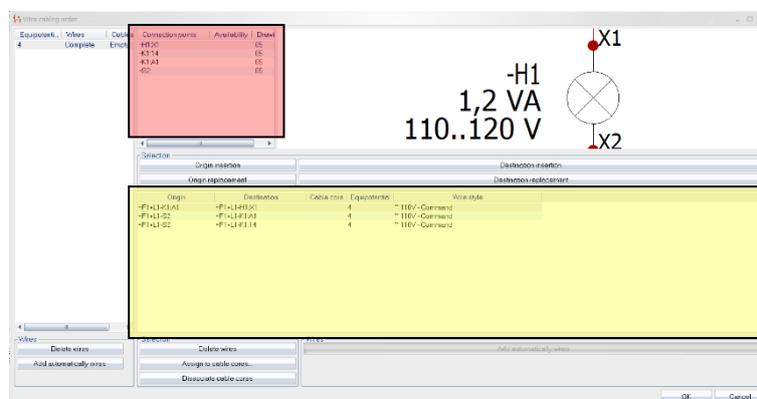
A schematic is a representation of a series of connections but the IEC “T” style connection does not advise how to physically define the wire connection order.

You can explicitly define the wire connection sequence of any wire networks consisting of three or more interconnected devices. You can control how elecworks™ analyzes the circuits and how from/to connection information is output to various reports.



The above circuit as an example has a wire 4 connected between several components. Effectively this could be wired up in four different ways.

Right click over the wire and select  Wire cabling order...



The current connection order is detailed

The available connections are detailed

Highlight the wires that are shown in the current connection order and select



Select one of the connections from the list of available connections e.g. K1:A1 and select



Highlight this new connection in the current connection order and then highlight the next connection from the list of available connections e.g. K1:14 and then select



Repeat the process for K1:14 to H1:X1

Repeat the process for H1:X1 to S2:

Until the connections look similar to the following

Origin	Destination	Cable core	Equipotential	Wire style
=F1+L1-H1:X1	=F1+L1-S2:	4	~ 110V - Command	
=F1+L1-K1:14	=F1+L1-H1:X1	4	~ 110V - Command	
=F1+L1-K1:A1	=F1+L1-K1:14	4	~ 110V - Command	

This gives a wire from-to list of

Drawings list List of the cables Bill Of Materials grouped by manufacturer List of wires by line style						
△	Origin	Destination	Wire number	Section	Length	
1	N2	K2		1.0 (mm ²)	0	
2	T1	Q3	1	1.0 (mm ²)	0	
3	Q3	S1	2	1.0 (mm ²)	0	
4	S1	S2	3	1.0 (mm ²)	0	
23	S2	-K1:13	3	1.0 (mm ²)	0	
5	-H1:X1	S2	4	1.0 (mm ²)	0	
26	-K1:A1	-K1:14	4	1.0 (mm ²)	0	
24	-K1:14	-H1:X1	4	1.0 (mm ²)	0	
6	-K1:A2	-H1:X2	5	1.0 (mm ²)	0	
25	Q3	-K1:A2	5	1.0 (mm ²)	0	