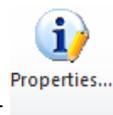# elecworks™ Tips & Tricks

Wire Colour / Size Marking

elecworks™ has multiple ways of having wire size and colour displayed by the wire number or on the wire. The wire size and colour can be included as either intelligent fields within the wire numbering methodology or as fixed text information within the wire numbering methodology. In addition, wire labels can also be placed instead of the normal wire numbers if you have the elecworks Harness (Onboard) module which extends the functionality of elecworks. The functionality is applicable to numbering wires on a per physical wire or a per equipotential basis.
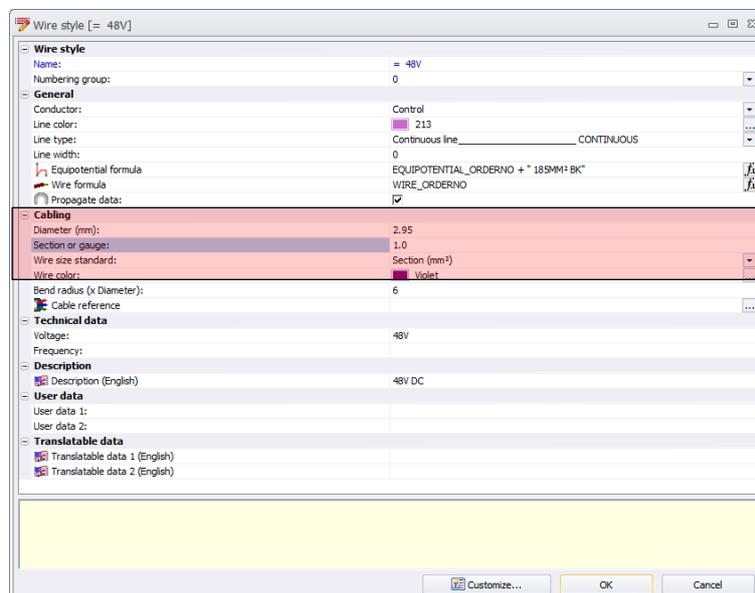
The following Tips & Tricks explains each method.

Wire Colour And Size Information As Text Within The Wire Numbering Formula

Right click over the current activated project > *Configurations* > Wire styles...

Highlight a wire style in the left of the dialogue and select Properties...

Ensure that the *diameter*, *section*, *wire size standard* and *wire colour* values are defined.

Example:

Diameter: 2.95
Section: 1.0
Wire size standard: Section (mm²)
Wire Color: Violet

If numbering wires on a per equipotential basis rather than a per physical wire basis, select
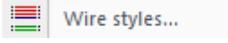
Equipotential formula   *fx*

In the *Formulas Equipotential Mark* section, enter:
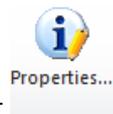
EQUIPOTENTIAL_ORDERNO + " ##mm² @@"

Where ## = the wire size e.g. 1 and @@ = the wire colour e.g. VT

Select [OK] to apply the changes. This must be repeated on all wire types.

Wire Colour And Size Information As Intelligent Fields Within The Wire Numbering Formula

Right click over the current activated project > *Configurations* > Wire styles...

Properties...

Highlight a wire style in the left of the dialogue and select

Ensure that the *diameter*, *section*, *wire size standard* and *wire colour* values are defined.
Example:
Diameter: 2.95
Section: 1.0
Wire size standard: Section (mm²)
Wire Color: Violet

If numbering wires on a per equipotential basis rather than a per physical wire basis, select

Equipotential formula   *fx*

In the *Formulas Equipotential Mark* section, enter:
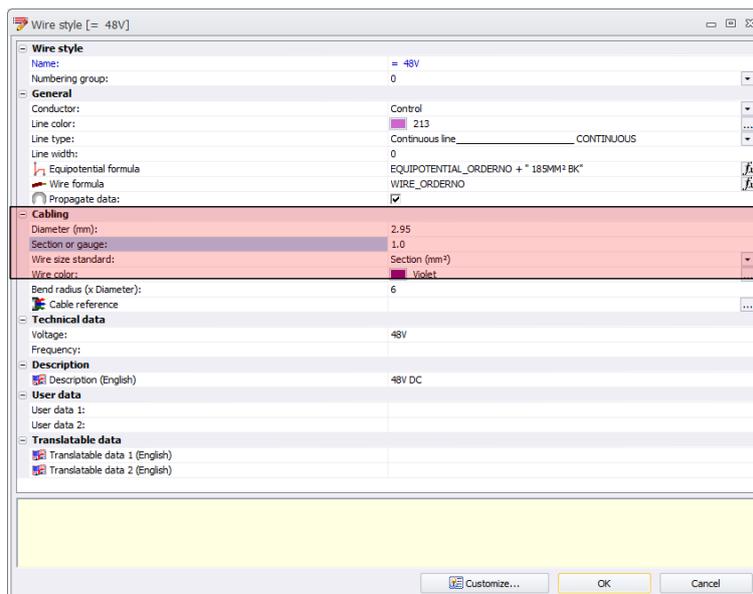
EQUIPOTENTIAL_ORDERNO + " " + EQUIPOTENTIAL_SECTION + "mm² " + EQUIPOTENTIAL_COLOR

Select OK to apply the changes. This must be repeated on all wire types.

Separators such as "/" or " " can be used between fields if you wish.

Wire Labels

This function is only available if you have the Harness (Onboard) module. For more information on the capabilities of this module please refer to the link at the top of the document.

The wire and equipotential labels used within the project are defined within the projects configuration

Right click over the current activated project > *Configurations* > Project...
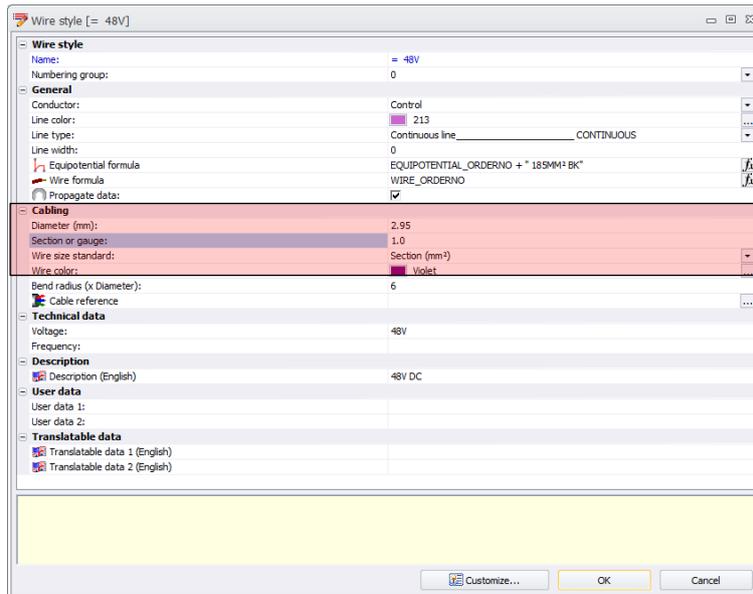
Select the Symbol tab
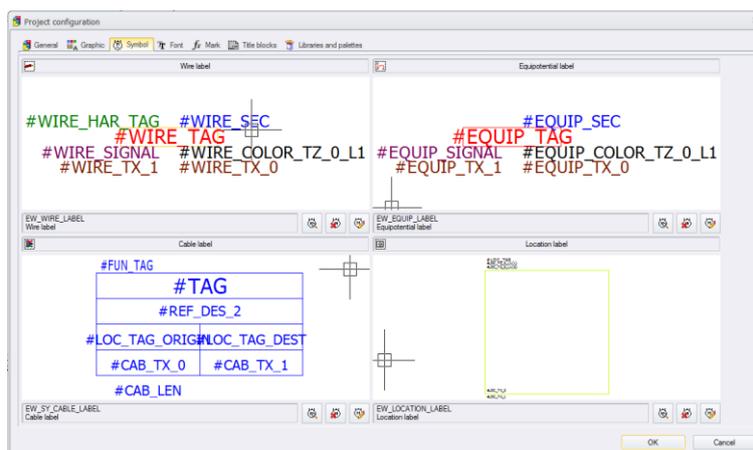
If numbering wires on a per equipotential basis rather than a per physical wire basis, the *Equipotential Label* is used.

Right click over the current activated project > *Configurations* > ☰ Wire styles...

Highlight a wire style in the left of the dialogue and select 🛈 Properties...

Ensure that the *diameter*, *section*, *wire size standard* and *wire colour* values are defined.
Example:
Diameter: 2.95
Section: 1.0
Wire size standard: Section (mm²)
Wire Color: Violet

If numbering wires on a per equipotential basis rather than a per physical wire basis, select
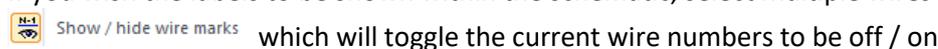╷₁ Equipotential formula   *fx*

In the *Formulas Equipotential Mark* section, enter:

EQUIPOTENTIAL_ORDERNO

Select [OK] to apply the changes. This must be repeated on all wire types.

If you wish the labels to be shown within the schematic, select multiple wires within a scheme and *right click* >
Show / hide wire marks   which will toggle the current wire numbers to be off / on

Right click to repeat > Show / hide equipotential labels   which will toggle the equipotential labels to be on / off
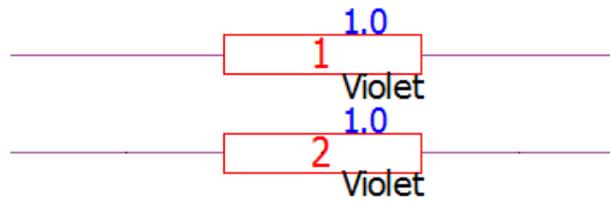
If you wish to include the text of "mm ²" then the symbol block EW_EQUIP_LABEL can be edited to include the static text.