

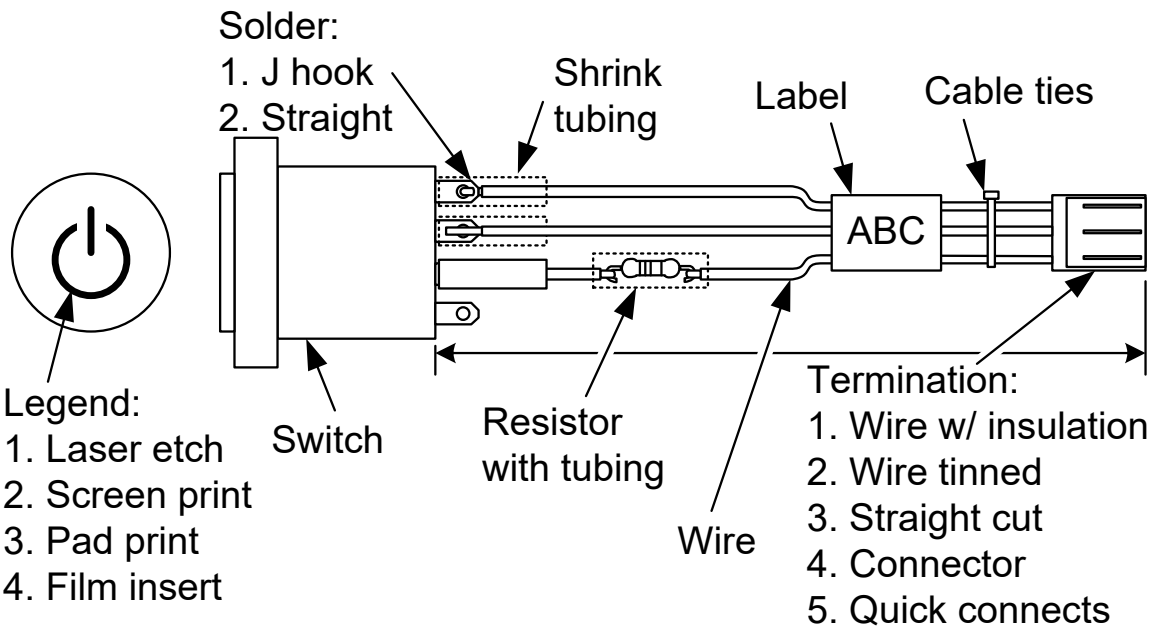
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Thank you for your inquiry and your business. NKK Switches is looking forward to providing you with a legend/assembly solution. Please provide as much information as necessary to build the assembly. Accuracy of the quote is based on current known specifications and is subject to change if there are alterations. Customer provided drawings shall supersede this list. If there is no preference for a particular item just leave it blank. NKK Switches reserves the right to choose components if such information is not given in order to provide an expedient quote.

NKK Switches will create an approval form or drawing that the customer must sign before work can begin.

Shown below are the many options available in a typical switch/wire harness with legend. Not all are required. They are dependent on the customer's requirements. Custom designs, such as but limited to, more than one connector or overwrap, are also possible. The following sheets cover each section step by step to clarify information necessary to add a legend and/or build an assembly.

Typical Switch and Wire Harness Assembly:



1. Quantity required:

Company Name _____ Date: _____
 Address _____ Phone: _____
 City: _____ State: _____ Zip Code: _____
 Contact Person: _____ Email: _____

Full switch part number: _____

Frequency of Build

One-time Build Quantity: _____, Repeat Build

For both types of assemblies there will be a minimum quantity based on the particulars of the build(s). For a repeat build please provide the Estimated Annual Usage (EAU): _____



Check List for Legends and Wire Harnesses

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Number of Different Builds

Sometimes there is a need for a group of assemblies that are similar except for the legend.

Number of different types of builds: _____

Single part number for a group of builds , Each build to have its own individual part number

2. Legend: (Legend-only. No harness)

Method

Laser etch inside , Laser etch outside , Pad Print ,

Screen Print , Film Insert , No Preference

Legend Type

a) Graphic Image(s) , Text

b) If Image(s), please provide artwork as Adobe Illustrator files or PDFs.

c) If Text, please provide the following (add information as required for multiple legends). Please verify that the text will fit within the printable areas. No all switches can hold all rows:

Row Text

- 1 _____
- 2 _____
- 3 _____

d) Color for pad or screen print (Pantone if desired): _____

e) Font (Bold etc): _____

f) Font Size (must fit within print area): _____

Orientation

Select the legend orientation to the NKK Switches' part number. Different switches will have restrictions on part number location:

Top , Bottom , Left , Right , No preference





Check List for Legends and Wire Harnesses

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Laser Etching is a quick method for adding a durable dark legend to switch caps. It can go inside the cap lens for a smooth cap feel on an illuminated cap or it can go on the outside for non-illuminated caps.

Pad Printing is the best option for printing a legend on an irregular surface, such as rockers, with minimal or no distortion. It has a minimum of tactile feel. Unlike laser etching, a variety of colors can be used. Best used on non-illuminated switches. It can go on the cap lens or diffuser for different appearances.

Screen Printing is the best option for printing a single color legend on illuminated switches or where thick paint is required for a stronger tactile feel. It can go on the cap lens or diffuser for different appearances.

Film Inserts allow for multicolor legends such as logos. It is also durable and has a smooth cap feel. Best used on illuminated switches for a sharp look.

For Pantone colors the legend color(s) shall have a tolerance of adjacent shades of the desired Pantone color.

The center of the graphic image or text shall be located within a Ø.040-inch tolerance zone.

3. Wire Harness: (If legends-only box is checked on page 2 then this page is not needed.)

Wire Characteristics

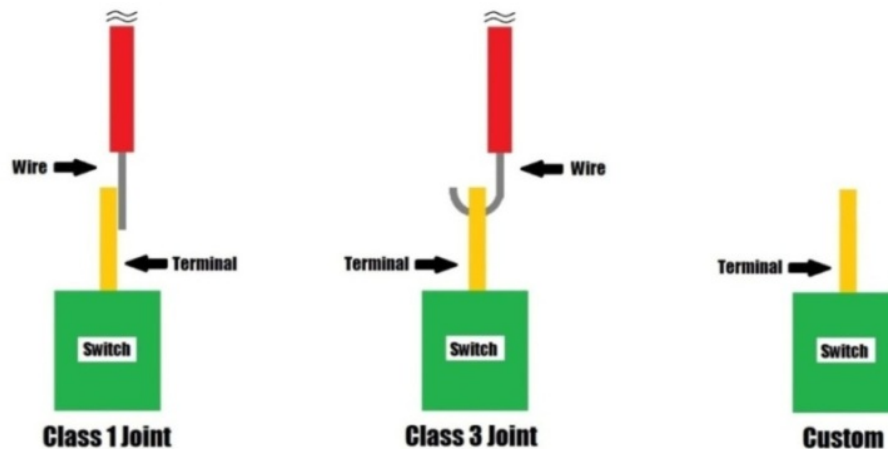
- a) Wire gauge (AWG)? _____
- b) Stranded , Solid
- c) Wire voltage and temperature rating and/or UL or MIL spec type? Or no preference
- d) Wire harness length from back of the switch body to the head of connector (or end of wire) and tolerances? _____
- e) Which color wire goes to which terminal?

Switch Terminal(s)	Wire Color(s)	Connector Terminal(s)	Resistor (Value and Watts)

Switch Characteristics

- f) Select solder joints class:
 Class 1 , Class 3 (J-Hook) , No preference , Custom

A **Class 1** joint is a straight solder. A **Class 3** joint is a J-hook through the terminal hole. Class 3 joints are only applicable for solder lug thru-hole terminals where the wire, with tinning, is small enough to fit through the terminal hole. If custom, please provide an illustration and/or description.



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Connector/Termination (If legends-only box is checked on page 2 then this page is not needed.)

- g) Select the type of termination for the non-switch end of the wire:
Wire (Default) , Connector , Quick Connect , Other
- h) For quick connects or connector(s) and/or contact(s) list the part numbers:

- i) For wire termination ends:
 - a. Select the termination method for the non-switch end of the wire:
Insulation On , Insulation Off (Tinned) , Straight Cut (Default)

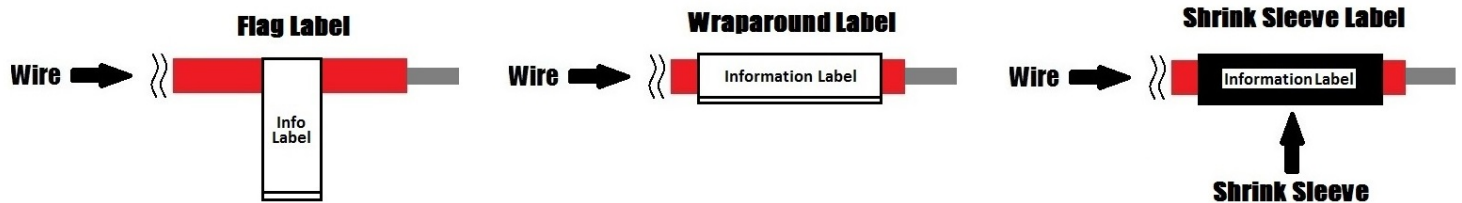


b. What is the wire stripping length(s) at non-switch end of wire? _____

Miscellaneous

- j) Shrink tubing over solder joints: Yes .
- k) What additional shrink sleeve(s) is required (diameter, length, and location)?

- l) Is a wraparound, flag, or shrink sleeve label needed (language sample w/ dimensions and location)? _____



m) Extra identifying label(s) for packing box or bags (in addition to NKK part number):

Comments/Additional Requirements

To expedite the process please send completed check list to customerservice@nkkswitches.com along with any additional relevant drawings or specifications.