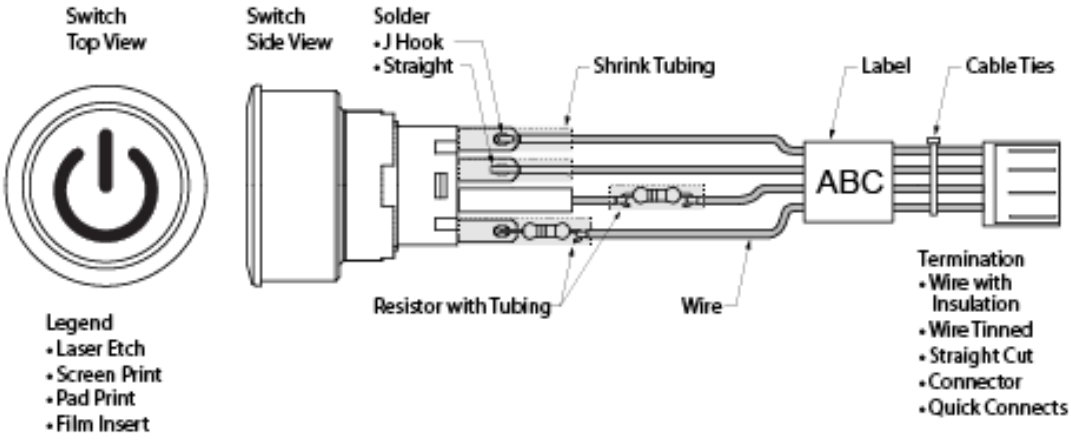
Thank you for your inquiry! NKK Switches is looking forward to providing you with your custom legend and/or assembly solution. Please provide as much information as necessary to build your custom solution. Quote accuracy is based on provided specifications. It is subject to change if there are any alterations. Customer provided drawings will supersede this form. If there is no preference for a particular item, please leave it blank. NKK Switches reserves the right to choose components if such information is not provided in order to produce 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 for a custom solution. Please note that not all parts are required, as they are dependent on your project requirements. Custom designs with more than one connector or overwrap are also possible. The following sheets cover each section step by step to help clarify the information necessary to create your custom legend or assembly solution.

Typical Switch and Wire Harness Assembly:



1. Contact Information:

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

Full Switch Part Number: _____

2. Quantity & Build Information:

Full Switch Part Number: _____

Build Frequency
One-time Build: ☐ Quantity: _____ Repeat Build: ☐

For all assemblies there will be a minimum quantity based on the build specifications.

For a repeat build please provide the Estimated Annual Usage (EAU): _____

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

Number of different build types: _____

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

3. Legend: (Legend-only. No harness: ☐)

Legend Imprint Method

Laser etching inside ☐ Laser etching outside ☐

Pad Print ☐ Screen Print ☐ No Preference ☐

Legend Type

a) Graphic Image(s) ☐ Text ☐

b) If legend(s) is provided via a graphic image(s), provide the artwork as an Adobe Illustrator file or a PDF. Include your image(s) when submitting this form.

c) When using text for your legend(s), please provide the following:

Row Text

1 _____

2 _____

3 _____

Please include additional information as required for multiple legends. Verify that the text will fit within the printable areas. Not all switches can support multiple rows of text.

d) Pad or screen print color (Pantone color, if desired): _____

e) Font Style (regular, bold, italic etc): _____

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

Orientation

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

Top ☐ Bottom ☐ Left ☐ Right ☐ No preference ☐

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

Pad Printing is the best option for printing a legend on an irregular surface, such as rockers, because it has minimal or no distortion. It has a minimum of tactile feel. A variety of colors can be used. Please note that pad printing is best if used on non-illuminated switches. Legends can go on the cap lens or diffuser to create different appearances.

Screen Printing is the best for printing a single-color legend on illuminated switches or when thick paint is needed to create a stronger tactile feel. It can go on the cap lens or diffuser to create different appearances.

Film Inserts allow for multicolor legends, like logos. They are also durable and have a smooth cap feel. Film inserts are best when used on illuminated switches because they have a clear and sharp look.

Please note:

When using Pantone colors, the legend color(s) will have a tolerance of shades adjacent to the desired Pantone color.

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

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

Wire Characteristics (Wire Harness-only. No legend: ☐)

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?
_____

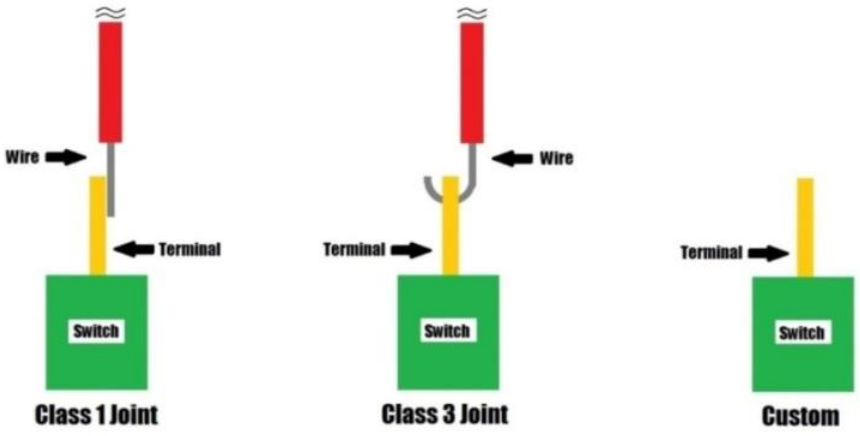
e) Which color wire will go to which terminal?

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 can only be used for solder lug thru-hole terminals where the wire, with tinning, is small enough to fit through the terminal hole.
If **Custom**, please include an illustration and/or description.



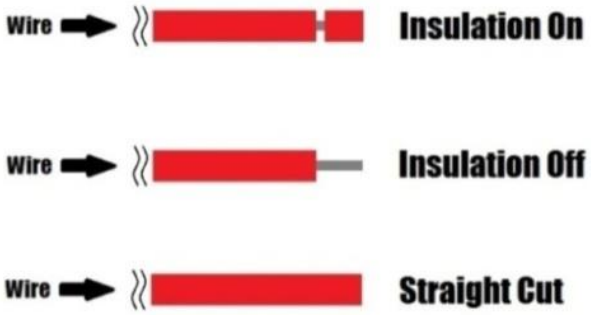
Connector/Termination (If legends-only box is checked on page 2 then this page is not needed.)

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) Does the wire insulation O.D. fit the terminals requested? Yes ☐.

j) 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) ☐



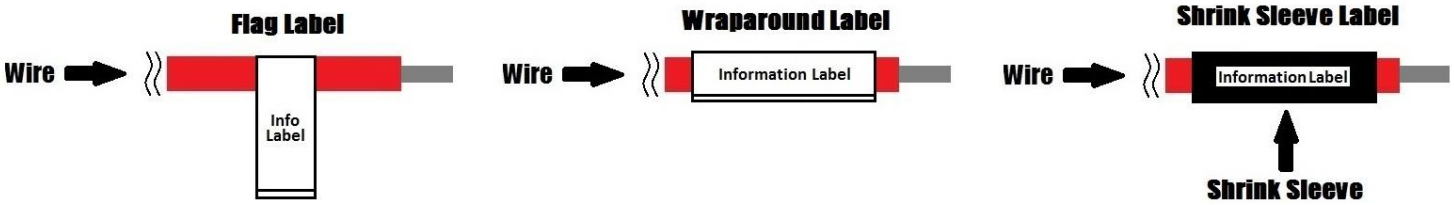
   b. What wire stripping length(s) is required at the non-switch end of wire? _____

Miscellaneous

k) Shrink tubing over solder joints? Yes ☐

l) What additional shrink sleeve(s) is required (diameter, length, and location)?
_____

m) Is a wraparound, flag, or shrink sleeve label needed? If so, please provide a language sample with dimensions and location:
_____



n) Epoxy Encapsulation: Yes ☐

Epoxy Encapsulation is a process that involves placing a switch into a mold or case and then pouring liquid epoxy compound (3M Scotch-Weld DP270) to completely cover the unit. It is then cured. This process protects the unit from harsh environmental conditions.

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

Comments & Additional Requirements:

_____
_____
_____
_____

Please send this completed form to webemail@nkkswitches.com

If you have any questions or need assistance, please contact customer support at: (480) 505-3790

Include any additional relevant drawings or additional specifications

Thank you!

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ANAB ANSI National Accreditation Board ACCREDITED ISO/IEC 17021-1 MANAGEMENT SYSTEMS CERTIFICATION BODY