

Top 10 Saw-Cut Loop Tips and Tricks

That will save you Time & Money

BD Loops

#1. Use a 3/16" Saw Blade

Prevent detector lock and phantom detections with the right size blade.

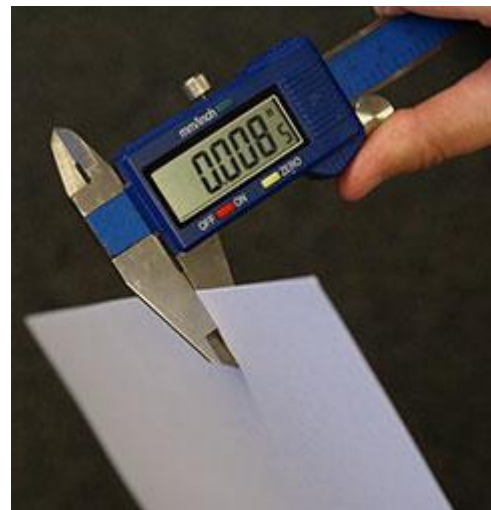
It is amazing how just one small aspect of a saw-cut installation, such as blade width can be so crucial for the life of the loop you are installing. Many installers and wire suppliers recommend the use of a 1/8" saw blade for saw-cutting in loops. It is easy to understand why, 1/8" diamond blades are inexpensive, make a narrow cut, and are easy to find in stores, but 1/8" blades cause a lot of issues that installers cannot easily see and the benefits are not worth the consequences.



Some Quick Stats on 1/8" Grooves:

- A saw-cut groove cut with an 1/8" blade is .125" wide.
- The outer diameter on a 20AWG XLPE wire commonly used in this industry is .118"
- The average width of a piece of copy paper is .004"

$$.125 - .118 = .007$$



Air pockets form when there isn't enough space for sealant to fully encapsulate the wire.

Because the wires are not encapsulated they are able to move slightly in the groove, this can cause false detections and detector lock up.

Water also finds its way into air pockets, if TFFN or THHN wire is

used the water can saturate the wires and cause intermittent loop problems.

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If you wrap wire in a 1/8" saw-cut groove the clearance around the top wire wrap will be **less than the thickness of 2 pieces of copy paper**. This is far too narrow for sealant to flow and encapsulate the wires below the top winding. Because the clearance is too narrow for sealant to flow air pockets will form.

In colder climates water in the groove will freeze and expand during winter and slowly push the wire out the groove. The best way to prevent air pockets is to use a 3/16" or wider blade for your saw-cut loops.

[Click here to read more about the importance of blade width.](#)

#2. Make a Saw Blade Depth Mark

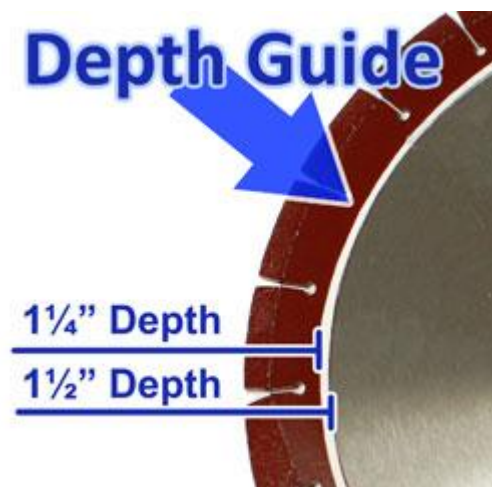
Cutting at the proper depth will save sealant and extend blade life.

By cutting at the correct depth, less sealant is needed to fill the groove. By simply reducing the blade depth from 2 1/2" to 1 1/4", installers can save over 50% in sealant. Not only does cutting at the proper depth save in sealant costs, but the life of the blade is extended. Reducing the depth of the groove, reduces the wear on the blade and allows for faster cutting.

Sealing the groove will take less time with the correct groove depth. Time, money and blade life are just three aspects where you save by cutting at the correct depth.

Every 14" blade at BD Loops comes with the marked blade depth of both 1 1/4" and 1 1/2".

[Click here to learn how to extend blade life and save sealant with a depth guide.](#)



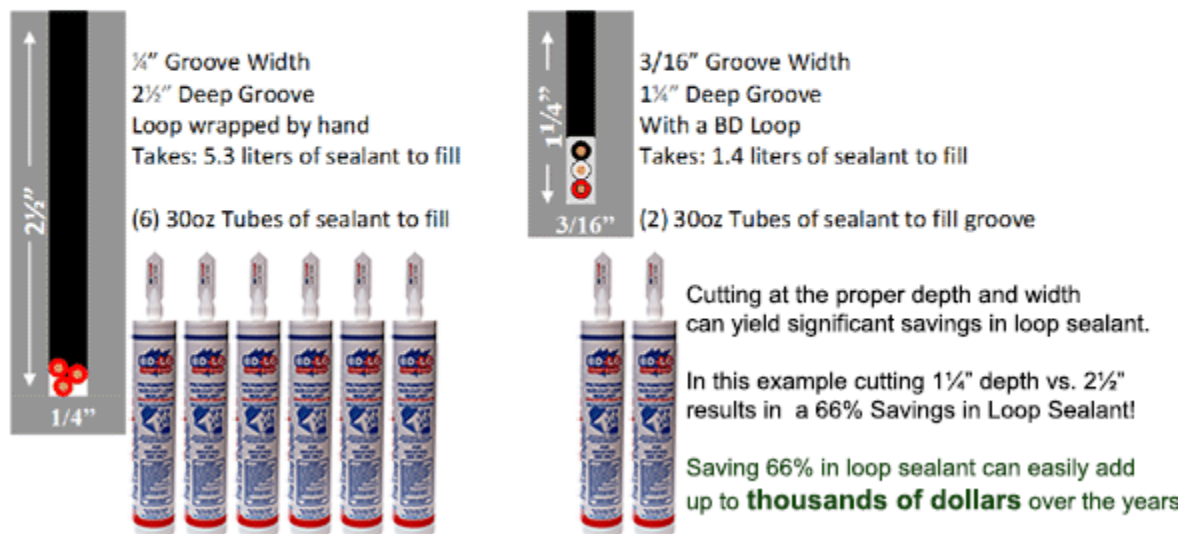
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Blade width and groove depth How much of a difference can they make?

Compare sealant consumption of the same size loop (32' perimeter with 15' of lead-in) cut at different depths and with different width blades:



#3. Use a Sealant Tip

Simply using a sealant tip is one of the easiest ways to save time on installations, are you using the correct kind?

Using a 3/16" flat sealant tip to seal the loop in 1 pass from the bottom up is one of the best ways to save a significant amount of time when installing loops. No more waiting around to do 2-3 passes to fully seal loops, and less strain on your back and knees. Sealant Brands like BD Loops BD-LG offer a 3/16" flat disposable sealant tip.

Sealants with pointed tip applicators will often be a few dollars less expensive than sealant that can be used with a flat sealant tip, but will require more passes to seal the loop. How much is your time worth?

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The image is a comparison graphic. On the left, a 'Pointed Tip' is shown with a white cone-shaped tip on a metal base. Text below it states: 'Fill the groove from the top down, inefficient. 2-3 passes are required to fill the groove. Often less expensive & can be purchased in big box stores, but takes multiple passes— How much is your time worth? Can cause sealant overflow waste.' In the center, 'VS.' is written in large orange letters. On the right, 'Flat Sealant Tips' are shown, including a white cone-shaped tip, a blue cylindrical tip, a grey rectangular tip, and a grey rectangular tip labeled 'Q290'. Text below them states: 'Sealant Tips allow you to fill the groove from the bottom up in ONE pass. - No waiting around for the sealant to seep down to apply additional passes of sealant. Less passes means less strain on your back and knees.' Below this text is a photograph of a sealant applicator tip being used on a groove, with the text 'Use a Sealant Tip and Seal the Loop in One Pass from the Bottom Up!' and 'No Air Pockets' overlaid. A small caption at the bottom reads 'Figure 4 - Sealant Applicator Tip'.

[Seal your loops in one pass - click here to read more about the best types of sealant tips for loops.](#)

#4. Modified Sealant Tip

Apply sealant more evenly with this simple trick.

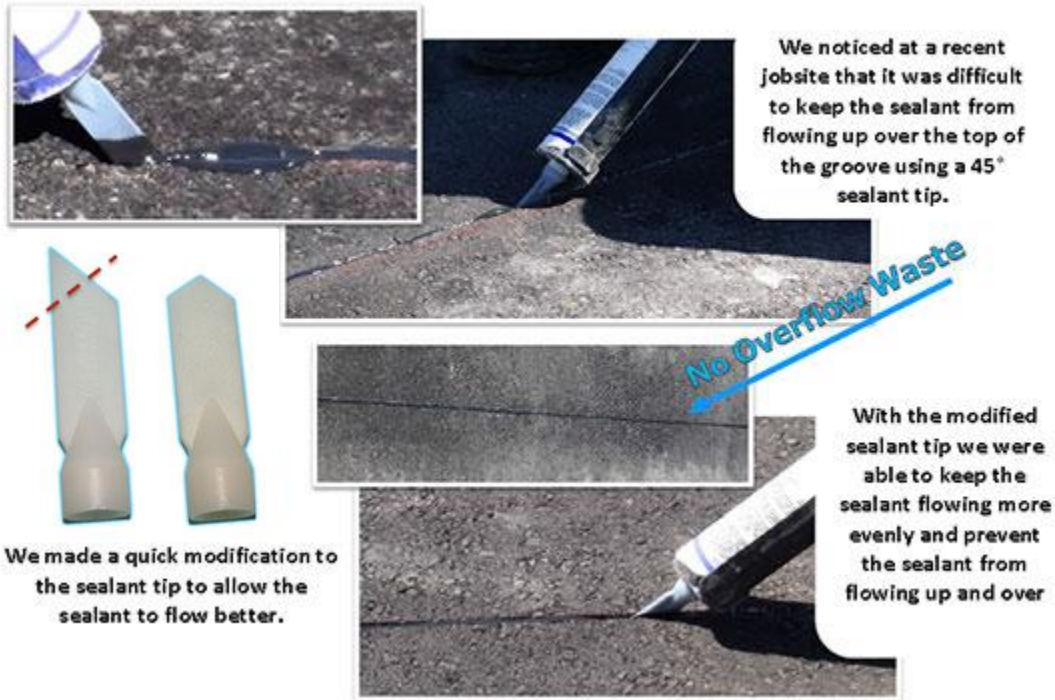
One simple cut of the sealant tip can make application simpler and smoother. The modified tip causes the sealant to flow smoothly into the groove while preventing the sealant from bubbling over the groove. The modified tip fills the groove in one pass, from the bottom up. Not only does the modified tip make application easier, but it also creates a more visually attractive cleaner seal while cutting down on waste.

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Modified Sealant Tip—Save Sealant and Seal Faster



#5. Sand Trick

Mask the saw-cut groove and open the lane faster with this simple trick!

This simple trick will set you apart from the competition. Create a more aesthetically appealing installation and make a happy customer in four easy steps.

[Click here to check out a step by step guide on the Sand Trick.](#)



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#6. How to Make a BD Loops Preformed Saw-Cut Loop Fit Every Time

*Hesitant about installing a preformed saw-cut loop?
Don't worry, it is easier than you think!*

Installing a preformed saw-cut loop can be a little intimidating if you've never done it before. Installers will often think that you have to cut a perfect sized pattern to make a preformed loop fit.

This may be true with some other brands of preformed loops, but not with BD Loops. As long as you don't cut the pattern too large our loops will fit 100% of the time.



[This quick trick simplifies saw-cut loop installation.](#)

#7. Rolling Work Seat

Applying loop sealant has never been easier!

The benefit of a rolling work seat is obvious, nobody enjoys hunching over and sealing saw-cut loops at the end of the day.

Save your back and knees the pain of bending over. Simply roll along the perimeter of the groove and seal it while in the seat. [These handy rolling work seats can be purchased at stores like Harbor Freight.](#)



#8. Sight Sticks

Skip chalking the cutting pattern with this simple trick.

Sight sticks can be used by experienced saw cutters. Simply mark the four corners of the loop with the metal sight sticks which are used as targets to guide the saw-cutting machine. Go straight from laying out the loop to cutting with these tools.

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Sight sticks can be made with wooden skewers, we recommend spray painting them to help them stand out. White and florescent spray paint stands out well against asphalt, and black and florescent paint stands out well against concrete.

#9. Dog-Ear Corner Size

Maintain a constant depth and prevent corner pieces from popping out.

Are you using the proper size dog ear-corner when cutting your 45° cuts? To maintain a constant cutting depth we recommend a 5 1/2" x 5 1/2" x 7 3/4" dog ear corner pattern. This size pattern is large enough to maintain a constant depth with blades up to 26" in diameter.

Cutting the corners too small can lead to the corner piece popping out, which creates an ugly mess that takes a lot of expensive loop sealant to fill.

[Click here to view a printable dog-ear corner template.](#)



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#10. Use an Air Wand to Clean and Dry the Saw-Cut Groove

If you keep compressed air on your truck this is the quickest way to clean and dry a saw-cut groove.

An air wand with a sealant tip fits nicely into saw-cut grooves and quickly blows out debris while drying the groove. Sealant manufacturers generally recommend applying sealant in a dry groove, rather than a wet one. Thoroughly drying the groove before applying sealant prevents bubbles from forming in the sealant and other issues.

Save time, clean and dry the groove faster with an air wand.



Brian Dickson is the Vice President of BD Loops, an assembler of preformed direct burial and saw-cut inductance loops for the gate, door, and parking industries. With over 15 years in business the quality of our loops is unparalleled. BD Loops products are available through over 400 distributors nationally. BD Loops offers 58 standard preformed loop sizes, all standard and custom loop sizes are ready to be shipped the same day. The company has several letters of recommendation testifying their professionalism and design, and is a member of the following associations: AFA, IDA, NOMMA, NAFC, IPI, CODA and IMSA. Visit www.bdloops.com and use the distributor locator to find a distributor near you. If you would like to speak to Brian Dickson please call BD Loops at 714-723-0946.