



Tools and Materials Required for Splicing

FID

Samson Tubular, Wire or Selma fids are available in a variety of sizes depending on the rope type and diameter you're splicing.

PUSHER

Helpful for extracting cores or pushing a fid through the rope.

TAPE

Masking tape, electrical tape or a similar plastic tape can be used during splicing.

SCISSORS OR KNIFE

For cutting away strands — must be sharp.

TWINE

Good quality nylon braided or twisted twine in a size adequate for the rope diameter being spliced.*

RULER OR TAPE MEASURE

MARKING PEN



**In general, braided nylon twine is preferred for lock stitching. Polyester twines, or twisted twines in either polyester or nylon, can also be used.*

The twine should be approximately the same diameter as 1 strand in the rope. If the rope or the cover of the rope is made up of pairs of strands rather than a single strand, the twine should be about the same diameter as these 2 strands together.

To check for correct twine size, lay the twine over the strands in the rope — if it covers the width of the strand(s), it is the right size.

Splicing Tools

SPLICING KIT

The Samson Splicing Kit comes with 5 aluminum tubular fids (size range 1/4" through 1/2" diameter).



WIRE AND ALUMINUM TUBULAR FIDS

Our wire fids are 1/2 scale, meaning that the length of the tool is 1/2 the actual fid length for the corresponding rope diameter. Tubular fids are 100% scale, meaning that the overall length of the tool is equal to the actual fid length for the corresponding rope diameter.



SPLICING TRAINING KIT

The Samson Splice Training Kit comes complete with a fid, pusher, instructions and 2 lengths of double braided ropes.



SELMA FIDS

Made from highly polished stainless steel, Selma Fids are patented worldwide. Available in sets of four only, the Selma Fid may be used to splice hollow braided lines from 1/8" to 9/16" or double braid and 3-strand rope up to 1-1/8".





Fid Information

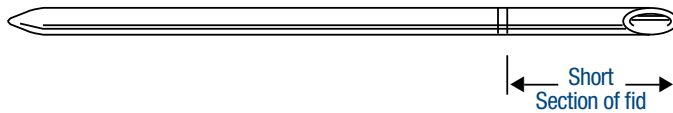
FID LENGTH DEFINITION

The length of the splicing tool, called a "fid," may or may not have a 1:1 correlation with the fid length for a given rope diameter. The "fid length" for a rope is calculated as 21 times the rope diameter. As the rope diameter increases, so does the fid length. For example the fid length for a 4" diameter rope is 84".

To keep fids to a manageable length, they may be scaled to the actual fid length of a given rope diameter. Our tubular fids are 100% scale, meaning that the overall length of the tool is equal to the actual fid length for the corresponding rope diameter. Our wire fids are 1/2 scale, meaning that the length of the tool is 1/2 the actual fid length for the corresponding rope diameter.

TUBULAR FIDS

A different sized splicing fid is required for each size of rope.



Fid Size = Rope Dia. (Inches)	Total Fid Length (Inches)	Short Fid Section (Inches)
1/4"	5-1/2"	2-1/16"
5/16"	6-3/4"	2-1/2"
3/8"	7-3/4"	2-7/8"
7/16"	9-1/2"	3-9/16"
1/2"	11"	4-1/8"
9/16"	12-1/4"	3-5/8"
5/8"	14"	4-1/8"
3/4"	16"	4-3/4"
7/8"	19"	4-3/4"
1"	21"	5-1/4"

CALCULATING FID SHORT SECTION

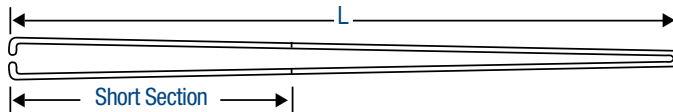
1/4" – 1/2" short section is 37.5% of fid length

9/16" – 3/4" short section is 30% of fid length

7/8" and up short section is 25% of fid length

WIRE FIDS

For rope sizes above 3" circumference (1" diameter), use a wire fid. fid scale: 1/2 (for rope diameters between 1" and 2").



Fid Size = Rope Dia. (Inches)	Total Fid Length "L" (Inches)	Short Section "C" (Inches)
1"	10-1/2"	2-5/8"
1-1/8"	12-1/4"	3"
1-1/4"	13-1/4"	3-1/4"
1-5/16"	14"	3-1/2"
1-1/2"	16"	4"
1-5/8"	17-1/2"	4-1/2"
1-3/4"	19"	4-3/4"
2"	21"	5-1/4"