Helicopter lineman on the power line

Sized for a 6 inch hoop (15 cm). The stitched design is about 5 × 5 in (12.7 × 12.7 cm).



Which color goes where: by number on page 2.
Fabric: pale blue cotton or linen.

Stitch in this order

Filled parts from the back of the picture forward, then lines and knots.

1. **Long and short stitch**, 1 strand
   Far hills, valley, near slope, helicopter, trousers
2. **Satin stitch**, 2 strands
   Mast, tail fin, tail plane, stripe, windows, pilot jacket, pilot face, pilot helmet, exhaust, skid legs, skids, rotor blades, rotor tips, and 18 more
3. **Stem stitch**, strands by part on page 2
   Tower, tower arms, tool bag strap, fir trunks
4. **Back stitch**, strands by part on page 2
   Tower bracing, tower arms, far wires, tool bag rim, glove lines
5. **Whipped back stitch**, strands by part on page 2
   Conductor, long line, rope border
6. **Straight stitch**, 1 strand
   Headset, brow, smile, sleeve folds
7. **Split stitch**, 2 strands
   Window frames, ball seam
8. **French knot**
   strands by part on page 2, two wraps
   Insulators, headset, tail rotor, rope ring, eye, ball bolts

In a 6 inch hoop the French knots are drawn smaller than about 2 mm (a little over 1/16 in). Use one strand of floss for them there, or choose a larger hoop.

Floss

- **1 DMC 926 Medium Gray Green** Far hills (darker)
- **2 DMC 927 Light Gray Green** Far hills (lighter)
- **3 DMC 501 Dark Blue Green** Valley (darker), near slope (lighter)
- **4 DMC 502 Blue Green** Valley (lighter)
- **5 DMC 500 Very Dark Blue Green** Firs, near slope (darker)
- **6 DMC 3799 Very Dark Pewter Gray**
  Far wires, tower bracing, tower arms, tower, conductor and skids and 4 more parts
- **7 DMC 632 Ultra Very Dark Desert Sand**
  Boots, insulators, glove lines, pilot face, neck and fir trunks and 3 more parts
- **8 DMC 939 Very Dark Navy Blue**
  Rope border (darker), rotor blades, far leg and window frames and 10 more parts
- **9 DMC 3820 Dark Straw**
  Rope border, long line and harness (lighter), gloves and rope ring, hard hat (darker)
- **10 DMC 815 Medium Garnet** Helicopter (darkest), tail fin and ball seam
- **11 DMC 321 Red** Helicopter (light)
- **12 DMC 498 Dark Red** Helicopter (dark), tail plane
- **13 DMC 350 Medium Coral** Helicopter (lightest)
- **14 DMC 712 Cream** Clouds and stripe, hard hat and tail rotor (lighter)
- **15 DMC 747 Very Light Sky Blue** Windows
- **16 DMC 312 Very Dark Baby Blue**
  Trousers (middle), shirt sleeves (darker), pilot jacket and sleeve folds
- **17 DMC 970 Light Pumpkin**
  Marker balls (light), vest (lighter), pilot helmet and rotor tips
- **18 DMC 334 Medium Baby Blue** Trousers (light), shirt sleeves (lighter)
- **19 DMC 946 Medium Burnt Orange** Vest (darker), marker balls (middle)
- **20 DMC 3819 Light Moss Green** Vest bands
- **21 DMC 3064 Desert Sand** Face and tool bag
- **22 DMC 900 Dark Burnt Orange** Marker balls (dark)

Three ways to transfer the pattern

1. **Fabric you can see through**
   Tape page 3 to a sunny window or lay it on a light box, tape the fabric over it and trace the lines with a sharp pencil or a water-soluble pen.
2. **Fabric you cannot see through**
   Lay dressmaker's carbon paper colored side down on the fabric with page 3 on top, tape the layers and trace the lines firmly with a ballpoint pen.
3. **Iron-on: the lines stay**
   Go over the lines of page 4, the mirrored page, with an iron-on transfer pen, lay it ink side down on the fabric and press with a dry iron, as the pen's packet says.

Pages 3 and 4 are the pattern at actual size. Print them at 100% with scaling turned off. Then put the fabric in the hoop: inner ring under, drawing up, tight as a drum.

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6 inch hoop

How to read it

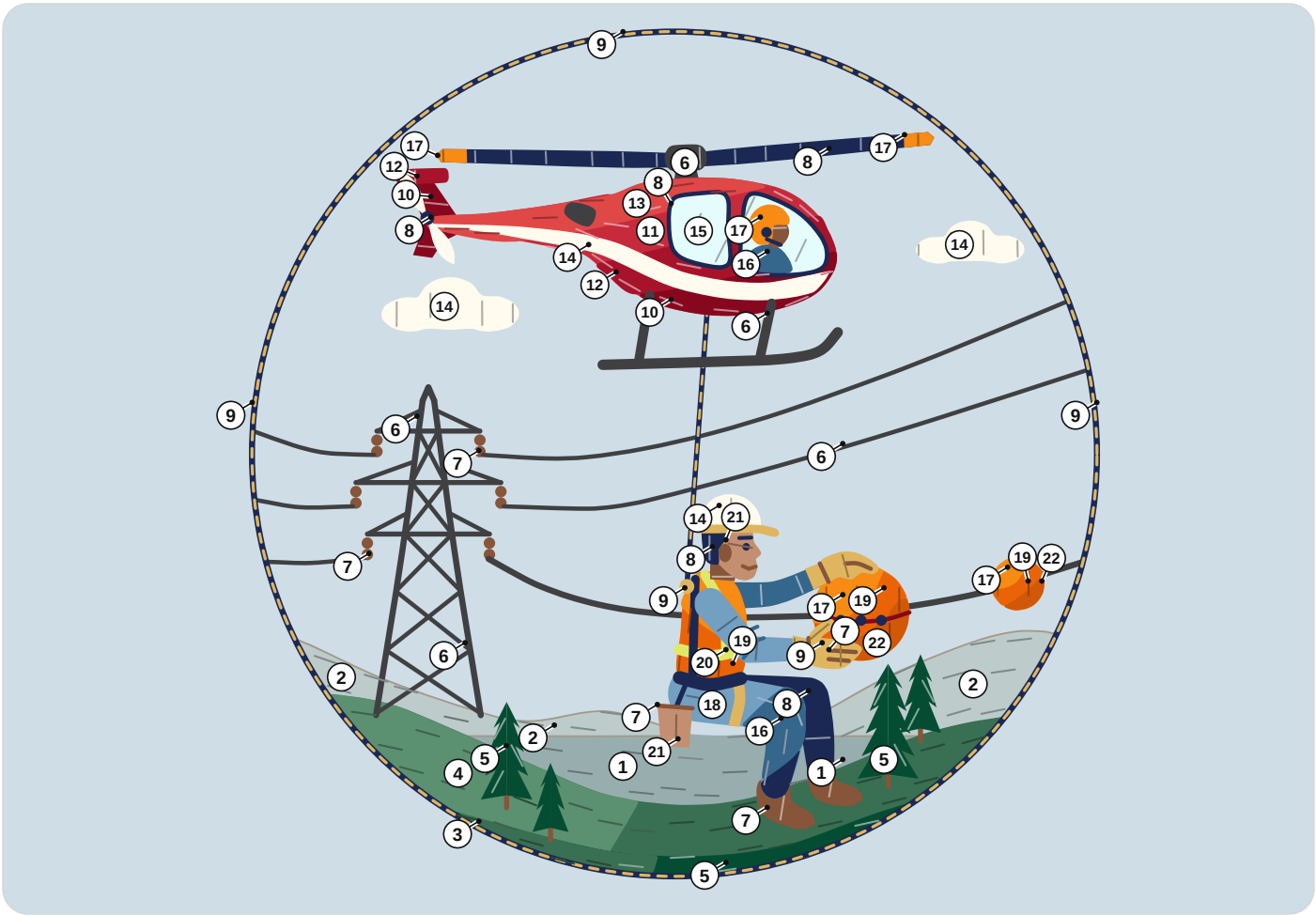
Floss is six strands. Cut 18 inches (45 cm), pull out the number given one at a time, and lay them together.

Inside a filled shape start with two or three tiny stitches, which the filling covers. Start a line with a small knot on the back. End each thread by running the needle under the backs of a few stitches.

Each small ring is one French knot. A dashed line is whipped back stitch. A fine broken line inside a shape is where two shades meet: trace it, do not stitch it.

A number on the picture is a color of the list of floss on page 1. The fine lines on the colors show which way the stitches lie.

Every stitch in pictures: flossfield.com/embroidery/stitches. The first time: flossfield.com/embroidery/guides/how-to-start.



1	DMC 926 Medium Gray Green	**9**	DMC 3820 Dark Straw	**17**	DMC 970 Light Pumpkin
2	DMC 927 Light Gray Green	**10**	DMC 815 Medium Garnet	**18**	DMC 334 Medium Baby Blue
3	DMC 501 Dark Blue Green	**11**	DMC 321 Red	**19**	DMC 946 Medium Burnt Orange
4	DMC 502 Blue Green	**12**	DMC 498 Dark Red	**20**	DMC 3819 Light Moss Green
5	DMC 500 Very Dark Blue Green	**13**	DMC 350 Medium Coral	**21**	DMC 3064 Desert Sand
6	DMC 3799 Very Dark Pewter Gray	**14**	DMC 712 Cream	**22**	DMC 900 Dark Burnt Orange
7	DMC 632 Ultra Very Dark Desert Sand	**15**	DMC 747 Very Light Sky Blue		
8	DMC 939 Very Dark Navy Blue	**16**	DMC 312 Very Dark Baby Blue		

How many strands

Stem stitch. 3 strands: tower; 2 strands: tower arms, tool bag strap, fir trunks.
Back stitch. 3 strands: tool bag rim; 1 strand: tower bracing, tower arms, far wires, glove lines.
Whipped back stitch. 4 strands: conductor, rope border; 3 strands: long line.
French knot. 2 strands: insulators, headset, tail rotor, rope ring, ball bolts; 1 strand: eye.

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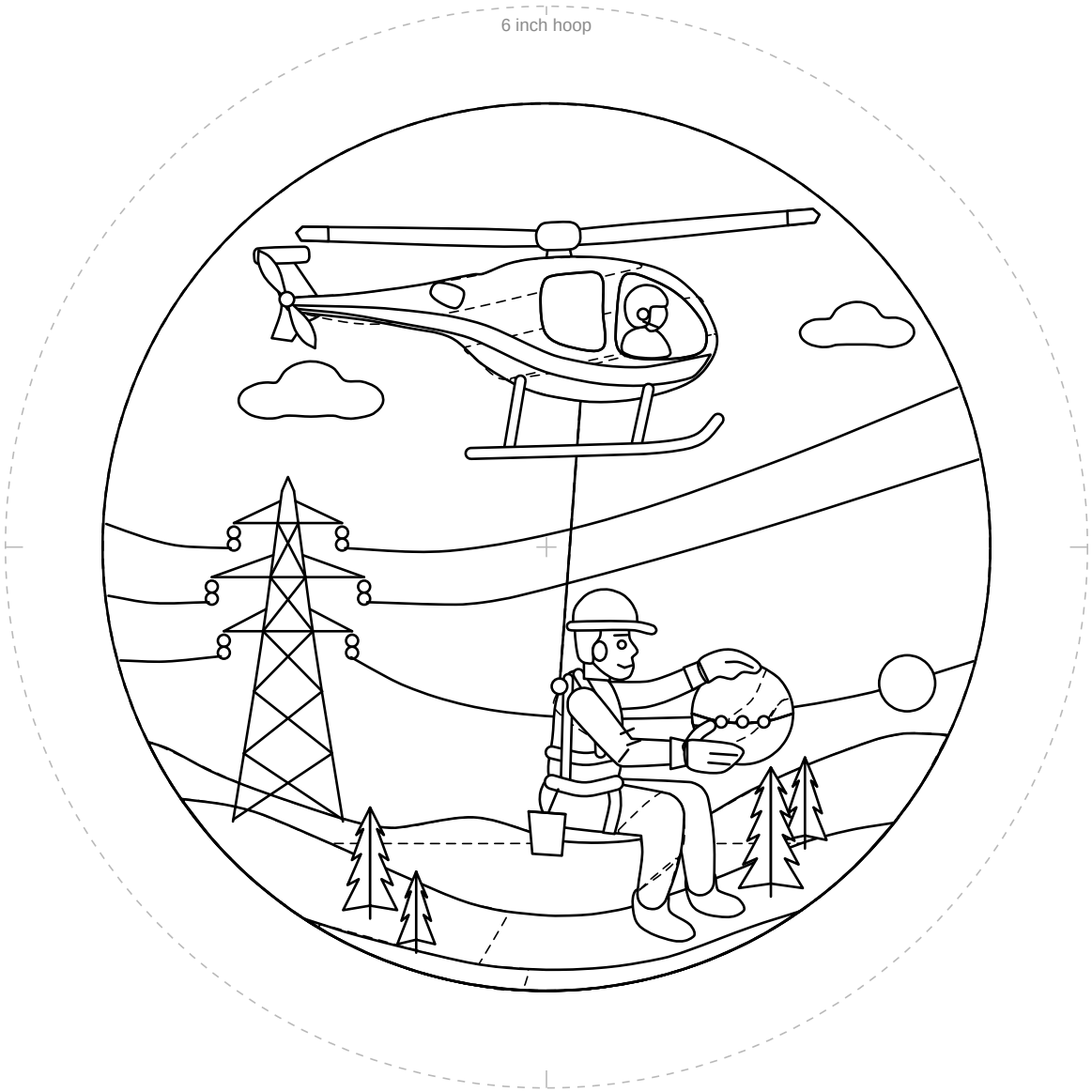
6 inch hoop

Print at 100% and check the square below with a ruler. Fold the fabric in four: the folds meet the four ticks of the ring.



1 in
25.4 mm

Check square: 1 inch (25.4 mm) on each side.
If it measures anything else, print again at 100% with scaling off.

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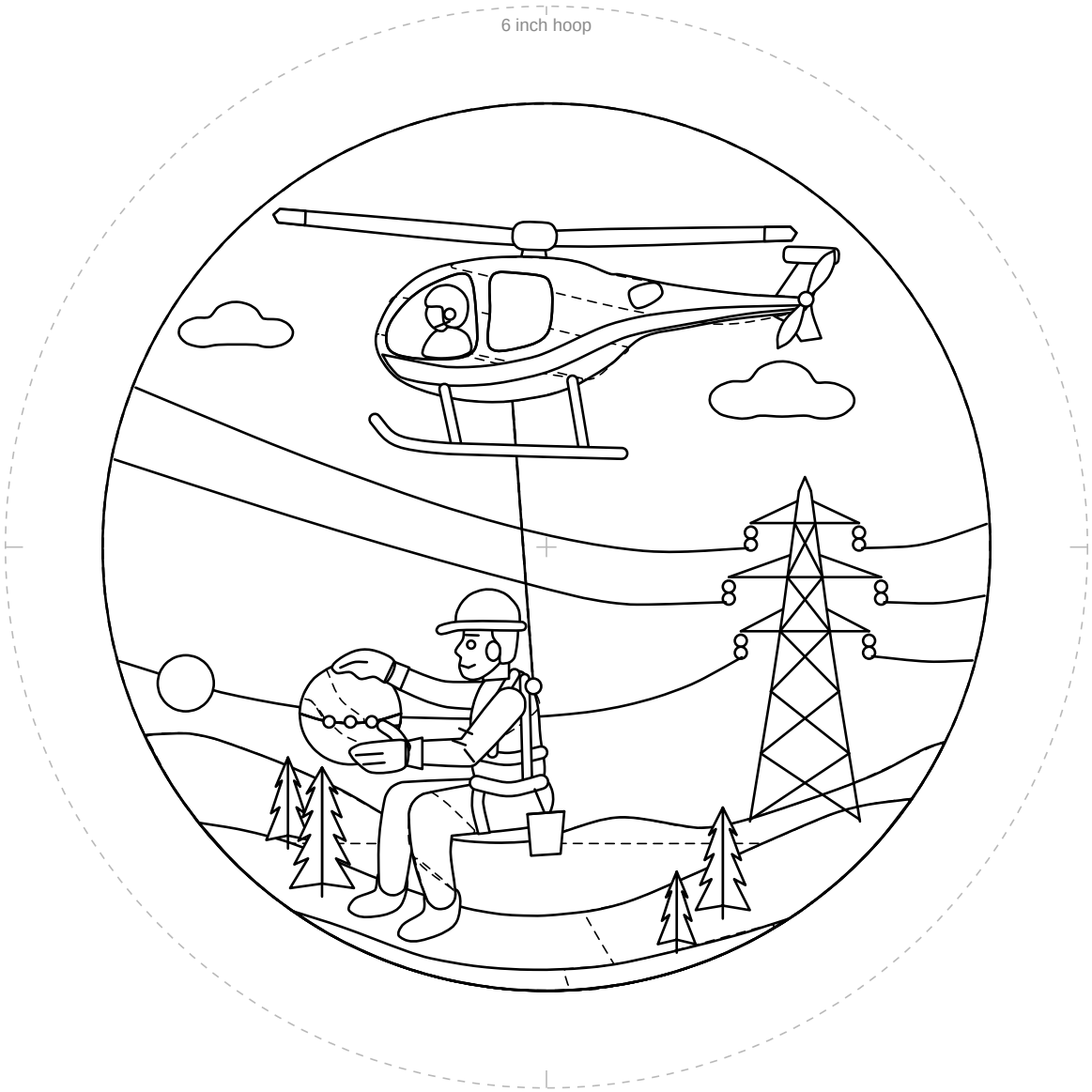
6 inch hoop

Mirrored. Trace this page with an iron-on transfer pen or pencil, then press it ink side down on the fabric.



1 in
25.4 mm

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