4 kings

pattern created by: Ademir Romano
name created by: Tracy Dulaney

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
place the numbers threads
that you find necessary

place the numbers threads
that you find necessary
September 27, 2016 (Brazil)

pattern: American Eagle
developed by Ademir Romano

3 colors shading

Approximate length of Pattern:
* Using one thread size "A" per step = 18 mm

Cross Wrap pattern participates and supports the FB:

http://craftyanglers.com/
Custom Rod Builders Guild https://www.facebook.com/groups/540331556070809/
Custom Fishing Rods Group https://www.facebook.com/groups/customrodsfishing/
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Marbled Rods and Builders https://www.facebook.com/groups/1610286019254936/
Designing & Building Fishing Rods https://www.facebook.com/groups/521550601323705/
Only Freshwater Rods Custom https://www.facebook.com/groups/1005459769502756/
暴 扌 族 俱樂部 https://www.facebook.com/groups/fish520/

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
1.1 mm or space for 5 cross points
pay attention, here is just a thread and not a cross point

close here with a cross point
pay attention, here is just a thread and not a cross point

Shading

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: American Stars
developed by: Ademir Romano

4 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 15.7 mm

Your setup will look like this

Keep in mind that this is an approximate measure

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
December 06, 2016 (Brazil)

pattern: Andromeda
developed by: Ademir Romano
named by: Mary McIntyre Christy

4 colors

≈ 15.5 mm ≈

Number of cross points 71

Approximate length of Pattern:
* Using one thread size "A" per step = 15.5 mm

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Fishing Art and Gold Hands https://www.facebook.com/groups/872013046182058/
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Only Freshwater Rods Custom https://www.facebook.com/groups/1005459769502756/

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: Astral Flowers
developed by: Ademir Romano

3 colors

- Shading
- Shading

Approximate length of Pattern:
* Using one thread size "A" per step = 22 mm
* Using one thread size "D" per step = 25.5 mm

Cross Wrap pattern participates and supports the FB:

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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Your setup will look like this

Keep in mind that this is an approximate measure

22 mm

44 mm

9 threads for each side shading the colors

11 threads for each side shading the colors

6 threads for each side shading the colors

6 threads for each side shading the colors

beginning:

Here you will start shading the color darker to lighter

= 15 =

mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Here you will start shading the color lighter to darker

Here you will start shading the color darker to lighter

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
May 17, 2017 (Brazil)

pattern: Aurora Borealis
developed by: Ademir Romano

2 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 23.5 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Your initial setup will be similar to the one below.

* approximate measures.

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Baitball

pattern created by: Ademir Romano
name created by: Dave Breiter

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: For Beginner 1
developed by: Ademir Romano

3 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 4,9 mm
* Using one thread size "D" per step = 8,1 mm

Note:
the diagram below is the configuration that would be a step

Number of cross points 32

Cross Wrap pattern participates and supports the FB:

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暴 扯 族 俱樂部 https://www.facebook.com/groups/fish520/

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
* spacer for 7 steps
size A = 1.1 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
* spacer for 5 steps
size A= 0,75 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
September 25, 2016 (Brazil)

pattern: Black Widow

3 colors

= 15 mm =

Number of cross points 69

Approximate length of Pattern:
* Using one thread size "A" per step = 15 mm

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Designing & Building Fishing Rods https://www.facebook.com/groups/521550601323705/
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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
$+6 \leftarrow \rightarrow +6$

$1^\circ$ close inside

$+2 \leftarrow \rightarrow +2$

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: Blossoming Flower
developed by Ademir Romano
named by Kimberly Schulze

5 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 11,4 mm
* Using one thread size "D" per step = 19,05 mm

Number of cross points 75

Cross Wrap pattern participates and supports the FB:

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Custom Fishing Rods Group https://www.facebook.com/groups/customrodsfishing/
Fishing Art and Gold Hands https://www.facebook.com/groups/872013046182058/
Marbled Rods and Builders https://www.facebook.com/groups/1610286019254936/
Designing & Building Fishing Rods https://www.facebook.com/groups/521550601323705/
Only Freshwater Rods Custom https://www.facebook.com/groups/1005459769502756/
暴 扯 族 倶楽部 https://www.facebook.com/groups/fish520/
March 20, 2017 (Brazil)

pattern: Butterflies
developed by: Ademir Romano

3 colors

≈ 26.5 mm ≈

Number of cross points 123

Your setup will look like this
Keep in mind that this is an approximate measure

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Approximate size calculation of a pattern

Example:

This pattern has 95 cross points

What is one cross point?

- this graph represents 1 cross point
- here we have 2 cross point

Below are the necessary information you need to know to calculate the length of a pattern

Size $A = 0.152$ mm diameter
Multiplying factor Size $A = 0.215$

Size $D = 0.25$ mm diameter
Multiplying factor Size $D = 0.35$
Let's understand what this number is (multiplication factor).

We will take as example the thread size D

Note graphically that this distance is not the same as this distance

This distance in thread size A is: 0.215 mm

This distance in thread size D is: 0.35 mm

On the next page we will see how to do the calculation
size D

This pattern has 95 cross points

Number of cross points 95
Thread size multiplication factor size $D = 0.35 \, \text{mm}$

$95 \text{ threads} \times 0.35 \, \text{mm} = 33.25 \, \text{mm}$

The length of this pattern in size $D$ is 33.25 mm

* For the pattern in size A, the same formula applies by changing only the multiplication factor to 0.215 mm
Other situation:
Let's take this example.

**size A**

15 cross points \* 0.215 = 3.3 mm

* spacer for
15 cross points
size A = 3.3 mm

**size A**

5 cross points \* 0.215 = 1 mm

* spacer for
5 cross points
size A = 1 mm
pattern: Camouflage
developed by: Ademir Romano

4 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 10 mm

Cross Wrap pattern participates and supports the FB:

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Custom Rod Builders Guild https://www.facebook.com/groups/540331556070809/
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Marbled Rods and Builders https://www.facebook.com/groups/1610286019254936/
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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
This pattern has 46 cross points, advisable for blanks of medium size, large size blanks you need to increase the number of threads to have a good look.

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
*space for 4 steps*

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: Chivalry
developed by Ademir Romano
named by

2 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 7,4 mm
* Using one thread size "D" per step = 12,5 mm

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Designing & Building Fishing Rods https://www.facebook.com/groups/521550601323705/
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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
* spacer for 47 steps
  size A = 7.1 mm

* spacer for 16 steps
  size A = 2.4 mm

* spacer for 9 steps
  size A = 1.4 mm
1 - Draw 2 horizontal lines on the $0^\circ$ and $180^\circ$ axis to make your patterns align.

2 - take a sheet of 60 to 80 cm that is not thicker than an A4 paper, in this photo I gathered 2 sheets of A4 and pasted with tape.

I'm going to do the setup for this pattern that has a length of **14.8 mm**

4 - draw 2 lines with a distance of 14.8 mm across the length of the paper, which is the length of the pattern, and then cut these two strips of paper.
5 - what you have done so far will look like this:

6 - Here is the most annoying and important moment, however with some training you will get the practice of doing this.

Glue the paper strips to the end with adhesive tape, finding the correct angle for this, then wrap the paper strips without one overlapping the other.

7 - final result.

I will use these 2 different color threads to show what to do next and make my photos visible.
8 - Wrap the first thread, referring to the first Axi 0° using the space between the 2 strips of paper so that its threads are with the correct angles.

9 - Wrap the second thread, referring to the second Axi 180° using the space between the 2 strips of paper so that their threads have the correct angles.

10 - remove the paper strips.
11 - using the intersection points that were created with the horizontal lines, wrap the third thread (yellow) forming its first cross point of axi 0 °

![Image of thread wrapped with yellow thread](image1)

12 - Using the intersection points that were created with the horizontal lines, wrap the fourth thread (white) forming its second cross point of axi 180 °

![Image of thread wrapped with white thread](image2)

The setup is complete, now just be happy

By Ademir Romano - Brazil
The first step asks you to do your basic lines calculating the required space that you want to leave
this space is that you have to decide what you want to do

Layout

Space for steps

(*) Space for 6 steps, this pattern ask that you leave a space to put more 6 threads, which will be entered in this space as the pattern is being closed.

You will probably not be able to leave just the space for the 6 steps, no problem, leave a little more space, then you will packing as the pattern get developing

keep in mind that a step is not a thread.

* theoretically speaking, if you are building a rod with small diameter then you will use one thread per step

* theoretically speaking, if you building a Rod with median diameter then you will use 2 thread by step

* theoretically speaking, if you are building a rod with large diameter then you will use 2 or more thread by step

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Then: here come within 6 steps in X with the colors of the pattern is asking in its development

* space for 6 step

example:

space for 6 step

What these arrows mean?

it shows the direction that you should put the threads to form the design, usually they will be out or inside

example:

1 gray thread (in)
1 blue thread (out)
1 black thread (out)

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
See how this should show when you put the second thread of black color

this next step is the same as the previous question, the space that must be left between blue and black colors, so that this space has the necessary number of threads to the development of the pattern

Now see how this should show when you put the blue color

In this pattern, in this exact spot ends the set of threads to the full development of the pattern. His first step was to put the first thread (gray) calculated the proper spacing of how you want the pattern is presented in its blank, your second step was to put the black thread with its proper space and your third step was to put a blue thread with its proper space.

Steps to pattern completion

Note that the dark gray arrow tells you to put a dark gray thread next to the black thread on both sides directed into the pattern.

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Note that the light gray arrow tells you to put a light gray thread next to the light gray thread on both sides directed out the pattern.

Note that the black arrow tells you to put a black thread next to the black thread on both sides directed out the pattern.

See how the pattern should show up to this point

Note that the blue arrow tells you to put a blue thread next to the blue thread on both sides directed out the pattern.

I believe that here you have understood the pattern development process over the meaning arrows. I will skip some steps that are the same as the previous going to near complete closing of the pattern.
Note that the blue arrow tells you to put a blue thread next to the blue thread on both sides directed **out** the pattern.

Note that the dark gray arrow tells you to put a dark gray thread next to the black thread on both sides directed **into** the pattern.

See how the pattern should show up to this point

continuing

Note that the light gray arrow tells you to put a light gray thread next to the light gray thread on both sides directed **out** the pattern.

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Note that the black arrow tells you to put a black thread next to the black thread on both sides directed out the pattern.

Pattern completion

Zoom

by: Ademir Romano

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Cross road

pattern created by: Ademir Romano
name created by: Chris Tenbusch

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
January 11, 2017 (Brazil)

pattern: Cross Target
developed by: Ademir Romano

4 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 20.5 mm

Cross Wrap pattern participates and supports the FB:

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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Variation inverse cross

* space for 6 step

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: Crown of Torns
developed by: Ademir Romano

2 colors shading

Approximate length of Pattern:
* Using one thread size "A" per step = 12.7 mm

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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: Cuban Flag
developed by Ademir Romano

4 colors

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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
To create the star, you must think outside the box, use a decal or something else. Be creative.

In this beginning, the more thread you put, the greater the length of the flag.

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February 10, 2017 (Brazil)

pattern: Deep Box
developed by Ademir Romano

3 colors
shading

Approximate length of Pattern:
* Using one thread size "A" per step = 10 mm

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Your setup will look like this

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At this point you start to make the shading

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July 20, 2016 (Brazil)

Pattern: Volcano
Developed by: Ademir Romano
Creation: Ademir Romano

6 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 19.3 mm

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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: Divine Shield
developed by: Ademir Romano
creation: Ademir Romano

4 colors

shadowing

4 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 18 mm

Number of cross points 83

Cross Wrap pattern participates and supports the FB:

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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
May 15, 2016 (Brazil)

pattern: Elementum
developed by: Ademir Romano
created by: Ademir Romano

4 colors shadowing

![Diagram with cross point]

Note:
The diagram below is the configuration that would be a Cross Point

Approximate length of Pattern:
* Using one thread size "A" per step = 10 mm

Cross Wrap pattern participates and supports the FB:

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暴 扯 族 俱楽部 https://www.facebook.com/groups/fish520/
March 26, 2017 (Brazil)

pattern: Ethereal
developed by: Ademir Romano

5 colors

5 colors

Shading

Approximate length of Pattern:
* Using one thread size "A" per step = 19.5 mm

= 19.5 mm =

Number of cross points 91

Your setup will look like this
Keep in mind that this is an approximate measure

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: Falconry 2  
developed by: Ademir Romano

5 colors  shadowing

Approximate length of Pattern:
* Using one thread size "A" per step = 8.5 mm

Note:
the diagram below is the configuration that would be a Cross Point

Number of cross points 41

Cross Wrap pattern participates and supports the FB:

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Fishing Art and Gold Hands https://www.facebook.com/groups/872013046182058/
Marbled Rods and Builders https://www.facebook.com/groups/1610286019254936/
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Only Freshwater Rods Custom https://www.facebook.com/groups/1005459769502756/
暴 扯 族 俱樂部 https://www.facebook.com/groups/fish520/
* spacer for 8 cross points
size $A = 2 \text{ mm}$

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
shadowing

shadowing

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
March 19, 2016 (Brazil)

pattern: Falconry
developed by: Ademir Romano
creation: Ademir Romano

4 colors

shadowing

Approximate length of Pattern:
* Using one thread size "A" per step = 18.5 mm

Cross Wrap pattern participates and supports the FB:

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Marbled Rods and Builders https://www.facebook.com/groups/1610286019254936/
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Only Freshwater Rods Custom https://www.facebook.com/groups/1005459769502756/
暴 扯 族 俱樂部 https://www.facebook.com/groups/fish520/
* spacer for 30 cross points
size A= 6.5 mm

* spacer for
9 cross points
size A= 2 mm

shadowing

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
September 4, 2016 (Brazil)

pattern: Filigree
developed by: Ademir Romano

2 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 12 mm

Cross Wrap pattern participates and supports the FB:

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March 6, 2016 (Brazil)

pattern: Fish Scales

2 colors

Note: the diagram below is the configuration that would be a Cross Point

Approximate length of Pattern:
* Using one thread size "A" per Cross Point = 23.2 mm

Cross Wrap pattern participates and supports the FB:

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* spacer for 24 cross points
size A = 5.1 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Thank you, feel free to share.
August 4, 2016 (Brazil)

pattern: Four-Pointed Star
developed by: Ademir Romano

4 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 22,3 mm

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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
July 21, 2016 (Brazil)

pattern: Fractal
developed by: Ademir Romano
creation: Ademir Romano

4 colors

shadowing shadowing shadowing

Approximate length of Pattern:
* Using one thread size "A" per step = 16 mm

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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
shadowing

+2

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Galaga

creation: Ademir Romano
pattern named by: Sanka Jayasuriya

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
first pattern to be made

second pattern to be made

red metallic thread

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Hornet

pattern created by: Ademir Romano
name created by: Dave Breiter
space for 18 steps

+9 +9

+2 +2

if you wish, start the shade here. this will have 4 more steps of gray until it reaches the end

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Diamond - suggestion to close the pattern

Hornet

pattern created by: Ademir Romano
name created by: Dave Breiter

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: Hypnosis
developed by: Ademir Romano

2 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 17 mm

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March 20, 2016 (Brazil)

pattern: Iroquois
developed by: Ademir Romano
creation: Ademir Romano

5 colors

shadowing

shadowing

shadowing

Shadowing

Approximate length of Pattern:
* Using one thread size "A" per cross point = 21 mm

Note:
the diagram below
is the configuration
that would be a
Cross Point

Number of cross points 97

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* spacer for 43 cross points
size A = 9.5 mm

+4 ← → +4

* spacer for 16 cross points
size A = 3.5 mm

3.5 mm
3.5 mm
3.5 mm
3.5 mm

+3 ← → +3

shadowing

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Pay close attention because it is a pattern very easy to get lost in the process.

* Space for 11 steps

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Labyrinth
by: Ademir Romano

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: Lava Pit
developed and created by: Hector Rojas

4 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 23.5 mm

Number of cross points 109

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
space for 18 steps

*Space for 4 steps

+2

+2

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Macaroni and Cheese
creation: Ademir Romano
pattern named by: Michael Lynch-Staunton

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
step 3 black (out)
pattern: Mandala
developed by: Ademir Romano
created by: Ademir Romano

7 colors
* Using one thread size "A" per step = 20.5 mm

*Advice: Do not use dark colors

Number of cross points 95
pay close attention because it is easy to get confused

* This design has one thread for construction, but you must use more than one.
Pattern Author: George Patric
pattern: Melodys Rose Bouquet
developed by: Ademir Romano
creation: Hector Rojas

7 colors

7 colors

Approximate length of Pattern:
* Using one thread size "A" per cross point = 22.5 mm

Note:
the diagram below is the configuration that would be a Cross Point

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* spacer for 7 cross points
  size A= 1.5 mm

* spacer for 5 cross points
  size A= 1 mm

* spacer for 20 cross points
  size A= 4.3 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: Mint Chocolate Chip
developed by: Ademir Romano

3 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 13.1 mm
* Using one thread size "D" per step = 21.9 mm

Number of cross points 61

Note:
the diagram below is the configuration that would be a step

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* spacer for 7 steps
size A= 1,5 mm

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* spacer for 8 steps
size A= 1.7 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
June 6, 2017 (Brazil)

pattern: Moorish Idol
developed by: Ademir Romano

2 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 14.8 mm

Number of cross points 69
pattern: Moth
developed by: Ademir Romano
created by: Ademir Romano

4 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 18 mm

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7 cross points

size A = 5.8 mm

size A = 3.7 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
size A = 1.8 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Note:
The diagram below is the configuration that would be a Cross Point.

Approximate length of Pattern:
* Using one thread size "A" per Cross Point = 26.87 mm

Number of cross points 125

4 colors

= 26.87 mm =
* spacer for 9 cross points
  size A = 2 mm

* spacer for 19 cross points
  size A = 4.1 mm

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March 11, 2016 (Brazil)

pattern: Nightingale
developed by: Ademir Romano

2 colors

shadowing

Approximate length of Pattern:
* Using one thread size "A" per step = 20.5 mm

Note:
the diagram below is the configuration that would be a Cross Point

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* spacer for 15 cross points size A= 3.3 mm

* spacer for 5 cross points size A= 1 mm

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* spacer for 4 cross points
size A = 0.6 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: Ogdoade
developed by: Ademir Romano
created by: Ademir Romano

3 colors

shadowing

Approximate length of Pattern:
* Using one thread size "A" per step = 13 mm

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*space for 18 steps

+3

*space for 5 steps

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Alternate 2 colors to get the depth that you find perfect for your pattern.
Initial setup of the threads

* be careful to leave these spaces in equal sizes
5 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 23.5 mm

= 25,4 mm =

Number of cross points 118
February 17, 2016 (Brazil)

pattern: Alien Predator
developed by: Ademir Romano
named by: Bill Mansel

5 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 4,5 mm
* Using one thread size "D" per step = 7,6 mm

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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
* spacer for 3 steps
size A= 0,5 mm

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measures already discovered where I want to start my pattern

from this point I want to discuss my line of reasoning
step 1 discovering the points of tangents
Step 2: Drawing the focal points as I discover the points of tangency.

Step 3: Drawing the focal points as I discover the points of tangency.
midpoints

spacing measures for my patterns

34,2 mm 33,7 mm 33,1 mm 32,7 mm 32,1 mm 31,5 mm

this reasoning line is right?
*space for
3 steps

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July 23, 2017 (Brazil)

pattern: Red Baron
developed by: Ademir Romano

Approximate length of Pattern:
* Using one thread size "A" per step = 18 mm
pattern: Scarab
developed by: Ademir Romano
named by: Ademir Romano

4 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 12,9 mm
* Using one thread size "D" per step = 21,2 mm

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Spacer for 8 steps
Size A = 1,7 mm

Spacer for 6 steps
Size A = 1,2 mm

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* spacer for 3 steps
size $A = 0.6 \text{ mm}$

+2

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July 21, 2016 (Brazil)

pattern: Scottish Terrier
developed by: Ademir Romano
creation: Ademir Romano

3 colors **shadowing**

```
  ●  ●  ●
```

Approximate length of Pattern:
* Using one thread size "A" per step = 15 mm

Number of cross points 69

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Shading or Shadowing

example:

This pattern calls for 10 different colors for each side, but they have the same hue.

This means that as you are developing the pattern in your blank, every step you go changing the color of the thread.

If you have only 5 colors, then place 2 threads of the same color respecting the technical process of the construction of the pattern, and then you will have the same 10 steps for each side.
April 13, 2016 (Brazil)

pattern: Shooting Stars
developed by: Ademir Romano
creation: Ademir Romano

2 colors

Approximate length of Pattern:
* Using one thread size "A" per cross point = 15.5 mm

Note:
the diagram below is the configuration that would be a Cross Point

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* spacer for 40 cross points
  size A= 8.5 mm

* spacer for 6 cross points
  size A= 1.3 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
* spacer for 4 cross points
  size A= 0.8 mm

* spacer for 10 cross points
  size A= 2 mm

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1º Two important information that you should have:

1º information that you should have is the thickness of your thread, I got Pro wrap as a reference. I will convert the inch measure to millimeters, because it is the measure that I am used to working.

Size A: \(0.006 \times 25.4 = 0.1524\) tenths of a millimeters

<table>
<thead>
<tr>
<th>Model #</th>
<th>Type</th>
<th>Size</th>
<th>DIA</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>RNG-A-Color</td>
<td>Nylon</td>
<td>A</td>
<td>0.006</td>
<td>100yds</td>
</tr>
<tr>
<td>RNW-A-Color</td>
<td>Nylon</td>
<td>A</td>
<td>0.006</td>
<td>550yds</td>
</tr>
<tr>
<td>RNL-A-Color</td>
<td>Nylon</td>
<td>A</td>
<td>0.006</td>
<td>480yds</td>
</tr>
</tbody>
</table>

2º Two important information how many steps has your pattern.

Let us take as an example 6 diamonds pattern. This pattern has 58 steps.

Threads you should count: 29 steps

Threads you should count: 29 steps

This pattern has 58 steps.

Keep in mind that a step is not a thread.

* Theoretically speaking, if you are building a rod with small diameter then you will use one thread per step.

* Theoretically speaking, if you are building a rod with median diameter then you will use 2 threads per step.

* Theoretically speaking, if you are building a rod with large diameter then you will use 2 or more threads per step.
the idea here is to know the measures of spaces to build a pattern which appears as the drawing below

critical points, this is the idea we want to achieve

Here I will use 2 threads per step

information that we have:
* Pro Wrap thread Size A = 0.1524 tenths of a mm
* Pattern has 58 steps
* I will use two thread by step

Mathematical calculations
0.1524 x 58 step = 8.84 millimiters
8.84 x 2 = 17.68 because I will use 2 threads per step

17.68 is the number that interests us here keep in mind this number

Material: use cardboard because it is a material easy to get, in my case I use an acetate with approximately having a thickness around 0.12 tenths of a millimeter, I do not advise using a very thick material

let's start
reminds of the measure with 17.68?
cut a strip with 17.68 mm high.
try to cut the most perfect possible because it is very important.

probably this measure will have around 96 cm

I'm sorry about the quality of photos

length I chose to build the pattern

marking where I want my main alignment

take strip 17,68mm paste with adhesive tape on the blank and wrap as the figures show
the strength of the process, it will obtain all these spaces alike

a zoom as it should be

fixed thread with tape and wrap taking advantage of the gaps as a guide

see with zoom

unroll the paper and roll it in the opposite direction to form the bases centers
again hold the thread with tape and wrap the thread using the gaps as a guide

unroll the paper, you'll get something like the image below

theoretically if you did the process correctly, you do not have to worry about alignment, under process centers bases will be aligned (perfectly).

and theoretically speaking, when you put the last thread, this will only have the space to put one thread.

this is the main stage of this step by step, this will continue because there is some tricks to show, however far you may already have a certain security to start their work, I will be waiting for your comments.
April 03, 2016 (Brazil)

pattern: Sparkler

8 colors

Approximate length of Pattern:
* Using one thread size "A" per cross point = 20.5 mm

Number of cross points 95

= 20.5 mm =

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* spacer for 8 cross points
size A= 1.7 mm

* spacer for 7 cross points
size A= 1.5 mm
pattern: Spider
developed by: Ademir Romano

8 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 15 mm

Note:
The diagram below is the configuration that would be a Cross Point

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* spacer for 7 cross points
size A= 1.5 mm

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July 18, 2016 (Brazil)

Pattern: Spot Light Clemens

2 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 19,5 mm

= 19,5 mm =

Number of cross points 91

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https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
August 4, 2016 (Brazil)

pattern: Square
developed by: Ademir Romano

4 colors

Number of cross points 75

Approximate length of Pattern:
* Using one thread size "A" per step = 16 mm

Cross Wrap pattern participates and supports the FB:

http://craftyanglers.com/
Custom Rod Builders Guild https://www.facebook.com/groups/540331556070809/
Custom Fishing Rods Group https://www.facebook.com/groups/customrodsfishing/
Fishing Art and Gold Hands https://www.facebook.com/groups/872013046182058/
Marbled Rods and Builders https://www.facebook.com/groups/1610286019254936/
Designing & Building Fishing Rods https://www.facebook.com/groups/521550601323705/
Only Freshwater Rods Custom https://www.facebook.com/groups/1005459769502756/

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
pattern: Sunburst
developed by Ademir Romano

3 colors

3 colors shading

Approximate length of Pattern:
* Using one thread size "A" per step = 7.3 mm
* Using one thread size "D" per step = 12.2 mm

Number of cross points 48

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Marbled Rods and Builders https://www.facebook.com/groups/1610286019254936/
Designing & Building Fishing Rods https://www.facebook.com/groups/521550601323705/
Only Freshwater Rods Custom https://www.facebook.com/groups/10054597697302756/
暴 扯 族 俱楽部 https://www.facebook.com/groups/fish520/

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
* spacer for 24 steps  
size A= 3,7 mm

* spacer for 10 steps  
size A= 1,5 mm

shading +2

shading +2

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
February 25, 2016 (Brazil)

pattern: The Minstrel
developed by: Ademir Romano

3 colors

Note:
the diagram below is the configuration that would be a step

Approximate length of Pattern:
* Using one thread size "A" per step = 14.4 mm
* Using one thread size "D" per step = 23.6 mm

Number of cross points 67

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Custom Fishing Rods Group https://www.facebook.com/groups/customrodsvishing/
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Marbled Rods and Builders https://www.facebook.com/groups/1610286019254936/
Designing & Building Fishing Rods https://www.facebook.com/groups/521550601323705/
Only Freshwater Rods Custom https://www.facebook.com/groups/1005459769502756/
暴 扌 族 俱樂部 https://www.facebook.com/groups/fish520/
* spacer for 50 steps
size A = 10.7 mm

= 10.7 mm =

+4 ← → +4

+2 ← → +2

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
* spacer for 8 steps
  size A = 1.7 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
repeat until you close the pattern

shade
March 27, 2017 (Brazil)

pattern: Tiger Lilly
developed by: Hector Rojas

5 colors

5 colors

Shading

Approximate length of Pattern:
* Using one thread size "A" per step = 20.5 mm

Number of cross points 94

Your setup will look like this
Keep in mind that this is an approximate measure

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
February 16, 2016 (Brazil)

**pattern: Top Hats and Tails**
developed by: Ademir Romano  
named by: Vern Metcalf Jr.

5 colors

![Color Palette](image)

**Approximate length of Pattern:**
* Using one thread size "A" per step = 7,5 mm
* Using one thread size "D" per step = 12,5 mm

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Only Freshwater Rods Custom [https://www.facebook.com/groups/1005459769502756/](https://www.facebook.com/groups/1005459769502756/)

暴 扶 扶 俱乐部 [https://www.facebook.com/groups/fish520/](https://www.facebook.com/groups/fish520/)

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
* spacer for 3 steps
size A = 0.5 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
 spacer for 5 steps
size A= 0,75 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
September 8, 2016 (Brazil)

pattern: Topaz
developed by: Ademir Romano

3 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 10.5 mm

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Fishing Art and Gold Hands https://www.facebook.com/groups/872013046182058/
Marbled Rods and Builders https://www.facebook.com/groups/1610286019254936/
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Only Freshwater Rods Custom https://www.facebook.com/groups/1005459769502756/
暴 扌 族 俱樂部 https://www.facebook.com/groups/fish520/
imaginary thread for help in building the setup

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
February 20, 2016 (Brazil)

pattern: Triple X
developed by Ademir Romano
named by Ademir Romano

5 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 6.2 mm
* Using one thread size "D" per step = 10.4 mm

Number of cross points 41

Cross Wrap pattern participates and supports the FB:

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Marbled Rods and Builders https://www.facebook.com/groups/1610286019254936/
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Only Freshwater Rods Custom https://www.facebook.com/groups/1005459769502756/
暴 扯 族 俱樂部 https://www.facebook.com/groups/fish520/

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
* spacer for 5 steps size A= 0.75 mm

* spacer for 5 steps size A= 0.75 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
* spacer for 12 steps
size A= 1.8 mm

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
June 4, 2016 (Brazil)

Pattern: Volcano
Developed by: Ademir Romano
Creation: Ademir Romano

4 colors shadowing

Approximate length of Pattern:
* Using one thread size "A" per step = 17.7 mm

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Fishing Art and Gold Hands https://www.facebook.com/groups/872013046182058/
Marbled Rods and Builders https://www.facebook.com/groups/1610286019254936/
Designing & Building Fishing Rods https://www.facebook.com/groups/521550601323705/
Only Freshwater Rods Custom https://www.facebook.com/groups/1005459769502756/
暴 扯 族 俱楽部 https://www.facebook.com/groups/fish520/
April 24, 2017 (Brazil)

Pattern: Wildflowers
Developed by: Ademir Romano

5 colors

Approximate length of Pattern:
* Using one thread size "A" per step = 20 mm

Number of cross points 93
space for 5 steps

+2 +2

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/
Windmill

creation: Ademir Romano
pattern named by: Chris Licht

https://www.facebook.com/Cross-Wrap-Pattern-398760823668245/timeline/