HALF-PERIOD CODING FOR A 5-PASS STANDARD HERRINGBONE KNOTS (5L 4B THK component)

ODD VERSION (PART 1 of 2---- 2nd part is EVEN VERSION)

By Charles HAMEL aka Nautile – Nov 2009

ODD and **EVEN** refer to the parity of the **LEAD** number in the component Turk's Head Knots.

As you very well know Standard Herringbone Pineapple Knots(THE pineapple) are assemblies of component THK distributed over two set having 2L of difference resulting in NESTED-BIGHT due to the several "BIGHT RIM" while **Standard HERRINBONE knots** (**Herringbone** for short) use no more rims than a THK does so they do **NOT, CANNOT** have nested-bights and are formed from THK having all the same dimensions in LEAD and BIGHT.

No one, to my knowledge, ever published HERRINGBONE with more than 2-PASS, even Grant, Ashley or Edwards ; let us pass under silence the multiple "copiers" that committed books of knots. (French-ism : one can commit a book just as one can commit a crime)

…TILL **GEORG SCHAAKE** unearthed the **SEQUENCE RULE** that apply in force as soon a 3-PASS is passed. Even with the correct coding for each half-period of each PASS you will just get a shamble if you do not strictly comply with that rule. For more details just peruse my personal web pages

SCHAAKE (†2009) & TURNER in *STANDARD HERRINGBONE KNOTS* gave all that is necessary to find the coding of any knot you might conceive in this category.

3-PASS (fateful limit ; after that sequence rule apply in force.

4-PASS neither faired nor dressed

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PASS N°1 is WHITE, N°2 is YELLOW, N°3 is RED, N°4 is GREEN, N°5 is BLUE.
Colours were chosen not for aesthetic but because they where available and contrasted.
DO NOT FORGET to strictly obey to the ordering sequence of the PASSes ! ;-)

1-PASS---(ODD)----------

HP1: FREE RUN
HP2: **O1**
HP3: **O1**
HP4: **U1 – O1**
HP5: **U1 – O1**
HP6: **O1 – U1 – O1**
HP7: **O1 – U1 – O1**
HP8: **U1 – O1 – U1 – O1**

3-PASS—(ODD)----------

HP1: **U2 – O2 – U2 – O2 – U2**
HP2: **U2 – O2 – U2 – O3 – U2**
HP3: **U2 – O2 – U2 – O3 – U2**
HP4: **U2 – O2 – U3 – O3 – U2**
HP5: **U2 – O2 – U3 – O3 – U2**
HP6: **U2 – O3 – U3 – O3 – U2**
HP7: **U2 – O3 – U3 – O3 – U2**
HP8: **U3 – O3 – U3 – O3 – U2**

5-PASS---(ODD)----------

HP1: **U4 – O4 – U4 – O4 – U4**
HP2: **U4 – O4 – U4 – O5 – U4**
HP3: **U4 – O4 – U4 – O5 –U4**
HP4: **U4 – O4 – U5 – O5 – U4**
HP5: **U4 – O4 – U5 – O5 – U4**
HP6: **U4 – O5 – U5 – O5 – U4**
HP7: **U4 – O5 – U5 – O5 – U4**
HP8: **U5 – O5 – U5 – O5 – U4**

2-PASS---(EVEN)----------

HP1: **U1 – O1 – U1 – O1 – U1**
HP2: **U1 – O1 – U1 – O1 – U2**
HP3: **U1 – O1 – U1 – O1 – U2**
HP4: **U1 – O1 – U1 – O1 – U2**
HP5: **U1 – O1 – U1 – O2 – U2**
HP6: **U1 – O1 – U2 – O2 – U2**
HP7: **U1 – O1 – U2 – O2 – U2**
HP8: **U1 – O2 – U2 – O2 – U2**

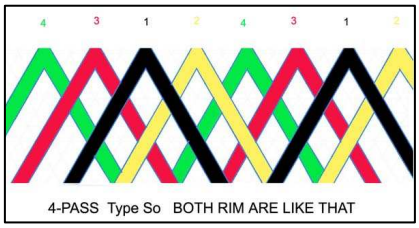
4-PASS---(EVEN)----------

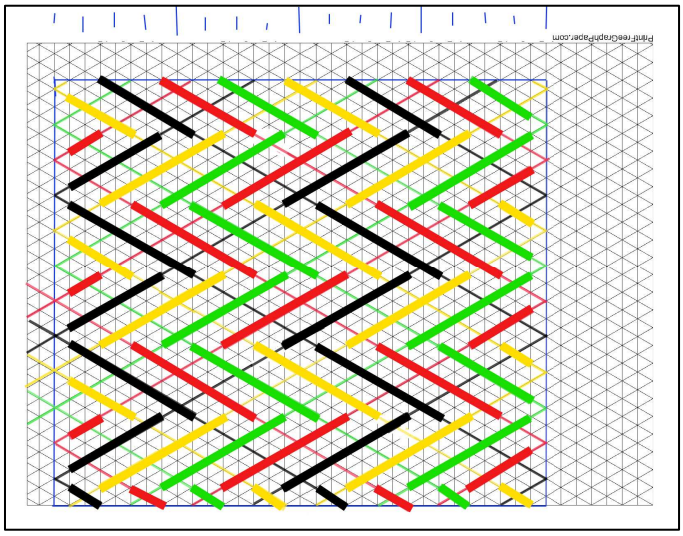
HP1: **U3 – O3 – U3 – O3 – U3**
HP2: **U3 – O3 – U3 – O3 – U4**
HP3: **U3 – O3 – U3 – O3 – U4**
HP4: **U3 – O3 – U3 – O4 – U4**
HP5: **U3 – O3 – U3 – O4 – U4**
HP6: **U3 – O3 – U4 – O4 – U4**
HP7: **U3 – O3 – U4 – O4 – U4**
HP8: **U3 – O4 – U4 – O4 – U4**

This code has no typo mistake and is without error in coding (I used it to make my own HERRINGBONE knot)
I calculate it with my program HER3 (written after reading S & T books) and as I am by training a “belt **AND** suspenders” sort of guy I verified it in paper and coloured pencils mode on an isometric diagram.
Charitable tip : **DO NOT ATTEMPT** that one the first time using only one colour for all PASS !
You are warned “monsters lie that single colour way!”

It is easy for anyone to find the 6th, 7th….*N*th PASS of *this one* !
Observation of the preceding code is more than sufficient tip.

THE SEQUENCE RULE (Schaake & Turner)





Black is PASS N°1
Yellow N°2, Red N°3, Green N°4

These illustrations here under are “after Schaake” as I modified the original ones are somewhat difficult to interpret due to total absence of colours.

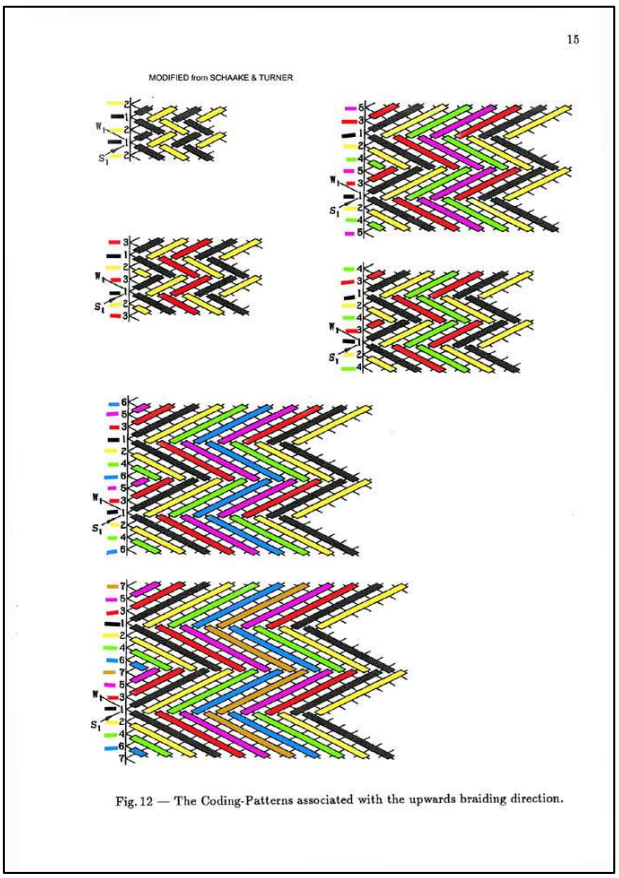


Fig. 12 — The Coding-Patterns associated with the upwards braiding direction.

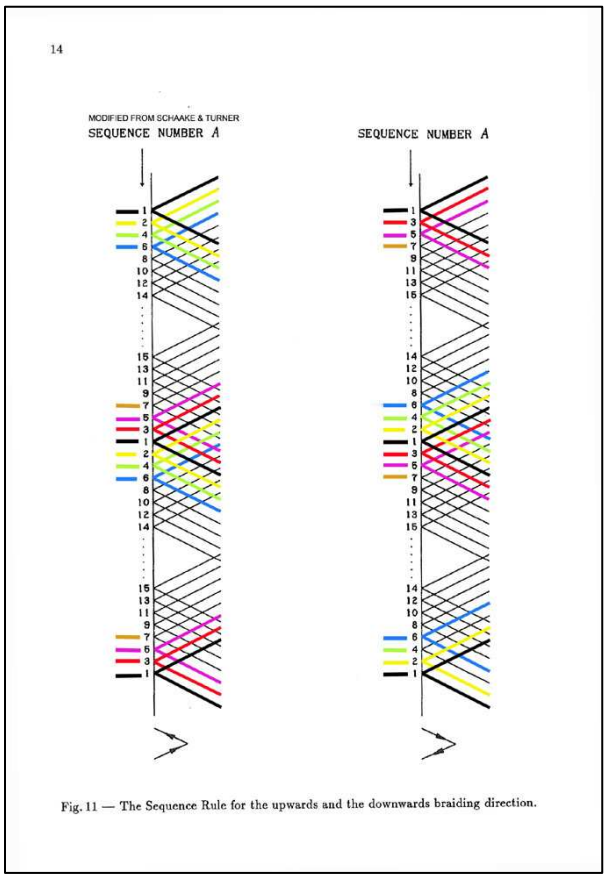


Fig. 11 — The Sequence Rule for the upwards and the downwards braiding direction.

Summary of sequence rule 7 **5** **3** **1** **2** **4** 6

5-PASS neither faired nor dressed
Just “as just laid”
Right side image: result of not complying with the sequence rule