Table 14.3-1   Shrink, Thin and Skeletonize Conditional Mark Patterns (M=1 if hit)

Type	Bond	Patterns							
S	1	0 0 1 0 1 0 0 0 0	1 0 0 0 1 0 0 0 0	0 0 0 0 1 0 1 0 0	0 0 0 0 1 0 0 0 1				
S	2	0 0 0 0 1 1 0 0 0	0 1 0 0 1 0 0 0 0	0 0 0 1 1 0 0 0 0	0 0 0 0 1 0 0 1 0				
S	3	0 0 1 0 1 1 0 0 0	0 1 1 0 1 0 0 0 0	1 1 0 0 1 0 0 0 0	1 0 0 1 1 0 0 0 0	0 0 0 1 1 0 1 0 0	0 0 0 0 1 0 1 1 0	0 0 0 0 1 0 0 1 1	0 0 0 0 1 1 0 0 1
TK	4	0 1 0 0 1 1 0 0 0	0 1 0 1 1 0 0 0 0	0 0 0 1 1 0 0 1 0	0 0 0 0 1 1 0 1 0				
STK	4	0 0 1 0 1 1 0 0 1	1 1 1 0 1 0 0 0 0	1 0 0 1 1 0 1 0 0	0 0 0 0 1 0 1 1 1				
ST	5	1 1 0 0 1 1 0 0 0	0 1 0 0 1 1 0 0 1	0 1 1 1 1 0 0 0 0	0 0 1 0 1 1 0 1 0				
ST	5	0 1 1 0 1 1 0 0 0	1 1 0 1 1 0 0 0 0	0 0 0 1 1 0 1 1 0	0 0 0 0 1 1 0 1 1				
ST	6	1 1 0 0 1 1 0 0 1	0 1 1 1 1 0 1 0 0						
STK	6	1 1 1 0 1 1 0 0 0	0 1 1 0 1 1 0 0 1	1 1 1 1 1 0 0 0 0	1 1 0 1 1 0 1 0 0	1 0 0 1 1 0 1 1 0	0 0 0 1 1 0 1 1 1	0 0 0 0 1 1 1 1 1	0 0 1 0 1 1 0 1 1
STK	7	1 1 1 0 1 1 0 0 1	1 1 1 1 1 0 1 0 0	1 0 0 1 1 0 1 1 1	0 0 1 0 1 1 1 1 1				
STK	8	0 1 1 0 1 1 0 1 1	1 1 1 1 1 1 0 0 0	1 1 0 1 1 0 1 1 0	0 0 0 1 1 1 1 1 1				
STK	9	1 1 1 0 1 1 0 1 1	0 1 1 0 1 1 1 1 1	1 1 1 1 1 1 1 0 0	1 1 1 1 1 1 0 0 1	1 1 1 1 1 0 1 1 0	1 1 0 1 1 0 1 1 1	1 0 0 1 1 1 1 1 1	0 0 1 1 1 1 1 1 1
STK	10	1 1 1 0 1 1 1 1 1	1 1 1 1 1 1 1 0 1	1 1 1 1 1 0 1 1 1	1 0 1 1 1 1 1 1 1				
K	11	1 1 1 1 1 1 0 1 1	1 1 1 1 1 1 1 1 0	1 1 0 1 1 1 1 1 1	0 1 1 1 1 1 1 1 1				

Table 14.3-2   Shrink and Thin Unconditional Mark Patterns

Spur	0	0	M	M	0	0						
	0	M	0	0	M	0						
	0	0	0	0	0	0						
Single 4-connection	0	0	0	0	0	0						
	0	M	0	0	M	M						
	0	M	0	0	0	0						
L Cluster (Only for Thinning!!)	0	0	M	0	M	M	M	M	0	M	0	0
	0	M	M	0	M	0	0	M	0	M	M	0
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
	M	M	0	0	M	0	0	M	0	0	M	M
	M	0	0	M	M	0	0	M	M	0	0	M
4-connected Offset	0	M	M	M	M	0	0	M	0	0	0	M
	M	M	0	0	M	M	0	M	M	0	M	M
	0	0	0	0	0	0	0	0	M	0	M	0
Spur corner Cluster	0	A	M	M	B	0	0	0	M	M	0	0
	0	M	B	A	M	0	A	M	0	0	M	B
	M	0	0	0	0	M	M	B	0	0	A	M
Corner Cluster	M	M	D									
	M	M	D									
	D	D	D									
Tee Branch	D	M	0	0	M	D	0	0	D	D	0	0
	M	M	M	M	M	M	M	M	M	M	M	M
	D	0	0	0	0	D	0	M	D	D	M	0
	D	M	D	0	M	0	0	M	0	D	M	D
	M	M	0	M	M	0	0	M	M	0	M	M
	0	M	0	D	M	D	D	M	D	0	M	0
Vee Branch	M	D	M	M	D	C	C	B	A	A	D	M
	D	M	D	D	M	B	D	M	D	B	M	D
	A	B	C	M	D	A	M	D	M	C	D	M
Diagonal Branch	D	M	0	0	M	D	D	0	M	M	0	D
	0	M	M	M	M	0	M	M	0	0	M	M
	M	0	D	D	0	M	0	M	D	D	M	0
A or B or C = 1 D = 0 or 1 A or B = 1												

Table 14.3-3   Skeletonize Unconditional Mark Patterns

Spur	0 0 0	0 0 0	0 0 M	M 0 0
	0 M 0	0 M 0	0 M 0	0 M 0
	0 0 M	M 0 0	0 0 0	0 0 0
Single 4-connection	0 0 0	0 0 0	0 0 0	0 M 0
	0 M 0	0 M M	M M 0	0 M 0
	0 M 0	0 0 0	0 0 0	0 0 0
L Corner	0 M 0	0 M 0	0 0 0	0 0 0
	0 M M	M M 0	0 M M	M M 0
	0 0 0	0 0 0	0 M 0	0 M 0
Corner Cluster	M M D	D D D		
	M M D	D M M		
	D D D	D M M		
Tee Branch	D M D	D M D	D D D	D M D
	M M M	M M D	M M M	D M M
	D D D	D M D	D M D	D M D
Vee Branch	M D M	M D C	C B A	A D M
	D M D	D M B	D M D	B M D
	A B C	M D A	M D M	C D M
Diagonal Branch	D M 0	0 M D	D 0 M	M 0 D
	0 M M	M M 0	M M 0	0 M M
	M 0 D	D 0 M	0 M D	D M 0

A or B or C = 1   D = 0 or 1