



### 5.3.2.1 STTD for DPCH

The pilot bit pattern for the DPCH channel transmitted on the diversity antenna is given in table 14. ~~The shadowed part indicates pilot bits that are STTD encoded from the corresponding (shadowed) bits in Table 12. For the SF=256 DPCH, if there are only two dedicated pilot bits ( $N_{pilot} = 2$  in Tables 12 and 14), they are STTD encoded together with the last two bits (data or DTX) of the second data field (data2) of the slot.~~

- For  $N_{pilot} = 8, 16$  the shadowed part indicates pilot bits that are obtained by STTD encoding the corresponding (shadowed) bits in Table 12. The non-shadowed pilot bit pattern is orthogonal to the corresponding (non-shadowed) pilot bit pattern in table 12.
- For  $N_{pilot} = 4$ , the diversity antenna pilot bit pattern is obtained by STTD encoding both the shadowed and non-shadowed pilot bits in table 12.
- For  $N_{pilot} = 2$ , the diversity antenna pilot pattern is obtained by STTD encoding the two pilot bits in table 12 with the last two bits (data or DTX) of the second data field (data2) of the slot. Thus for  $N_{pilot} = 2$  case, the last two bits of the second data field (data 2) after STTD encoding, follow the diversity antenna pilot bits in Table 14.

STTD encoding for the DPDCH, TPC, and TFCI fields is done as described in section 5.3.1.1.1. For the SF=512 DPCH, the first two bits in each slot, i.e. TPC bits, are not STTD encoded and the same bits are transmitted with equal power from the two antennas. The ~~following remaining~~ four bits are STTD encoded.

**Table 14: Pilot pattern of the DPCH channel for the diversity antenna using STTD**

Symbol #	$N_{pilot} = 2$	$N_{pilot} = 4$		$N_{pilot} = 8$				$N_{pilot} = 16$							
	0	0	1	0	1	2	3	0	1	2	3	4	5	6	7
Slot #0	01	01	10	11	00	00	10	11	00	00	10	11	00	00	10
1	10	10	10	11	00	00	01	11	00	00	01	11	10	00	10
2	11	11	10	11	11	00	00	11	11	00	00	11	10	00	11
3	10	10	10	11	10	00	01	11	10	00	01	11	00	00	00
4	00	00	10	11	11	00	11	11	11	00	11	11	01	00	10
5	01	01	10	11	00	00	10	11	00	00	10	11	11	00	00
6	01	01	10	11	10	00	10	11	10	00	10	11	01	00	11
7	00	00	10	11	10	00	11	11	10	00	11	11	10	00	11
8	11	11	10	11	00	00	00	11	00	00	00	11	01	00	01
9	01	01	10	11	01	00	10	11	01	00	10	11	01	00	01
10	11	11	10	11	11	00	00	11	11	00	00	11	00	00	10
11	00	00	10	11	01	00	11	11	01	00	11	11	00	00	01
12	00	00	10	11	10	00	11	11	10	00	11	11	11	00	00
13	10	10	10	11	01	00	01	11	01	00	01	11	10	00	01
14	10	10	10	11	01	00	01	11	01	00	01	11	11	00	11