

CMS labels for hybrids

P Ju 11-06-04

CMS standard labels:

1	2	3	4	5	6	7	8	9	10	11	12	13	14
3	0	2	x	x	x	x	x	x	x	x	x	x	x
			part #				sub_type #			serial number			

The hybrids differ on 3 topics:

an hybrid can be TOB, TIB or TEC, with 4/6 APV's, up/down.

TOB hybrids with 4 APV's and TIB hybrids with 6 APV's may be rφ or stereo.

(This up/down isospin symmetry means that the NAIS connector on the cable on an hybrid up [down] is on the same [opposite] side as the components on the hybrid.)

1. The digits 4 to 7 contain the **part #**

i.e. **part # = 1663, 1664, ... 1675, 1676**

with the following correspondance table:

part #	part	APV's	up/down	name	DB type	batch
1663	TEC	4	u	EC4u	2.1.1.1	TEC4U
(1664	TEC	4	d)	<i>do not exist</i>		
1665	TEC	6	u	EC6u	2.2.1.1	TEC6U
1666	TEC	6	d	EC6d	2.2.2.1	TEC6D
(1667	TIB rφ	4	u)	<i>do not exist</i>		
1668	TIB rφ	4	d	IBph4d	1.1.2.1	TIB4PD
(1669	TIB rφ	6	u)	<i>do not exist</i>		
1670	TIB rφ	6	d	IBph6d	1.2.2.1	TIB6PD
1671	TOB rφ	4	u	OBph4u	3.1.1.1	TOB4PU
1672	TOB rφ	4	d	OBph4d	3.1.2.1	TOB4PD
1673	TOB rφ	6	u	OBph6u	3.2.1.1	TOB6PU
(1674	TOB	6	d)	<i>do not exist</i>		
1675	TOB stereo	4	u	OBst4u	3.1.1.2	TOB4SU
1676	TOB stereo	4	d	OBst4d	3.1.2.2	TOB4SD
1677	TIB stereo	6	u	IBst6u	1.2.1.2	TIB6SU
1678	TIB stereo	6	d	IBst6d	1.2.2.2	TIB6SD

2. the digits 8 and 9 in the CMS standard label of an hybrid represent a **sub_type #**
 The **sub_type # table** results from the hazards of life and is presently the following one:

sub_type #	meaning
00	tests
01	express line
02	Dorazil prototype
03	Mipot prototype

- 04 FR4 Cibel prototype v2 FR4 FR4
- 05 FR4 Flex Cibel
- 06 FR4 Flex Cibel prolonged 3 mm TEC called TOB.
- 07 FR4 Flex Cibel prolonged 3 mm TEC called TOB mounted
by HCM
- 08 FR4 Flex Cibel mounted by HCM
- 09 Carbon Fiber Flex Cicorel mounted by Strasbourg
- 10 Nothing/FR4 Flex Cicorel mounted by Strasbourg
- 11 Carbon Fiber Flex Cicorel mounted by Hybrid SA
- 12 FR4 GS mounted by Strasbourg
- 13 Flex Cicorel on ceramic mounted by Hybrid SA
- 14 FR4 Flex GS mounted by HOPP & B+F
- 15 Cicorel Hybrid SA v12
- 16 Cicorel Hybrid SA v12 with stiffener retrofitted
- 17 Cicorel Hybrid SA v12 with stiffener and modified outer
layer
- 18 final version with slightly modified inner layers
- 19 final version with slightly modified inner layers and modified laser drilling parameters

3. The digits between 10 and 14 are **the hybrid serial #** between 0001 and the # of the last produced hybrid ~17500.

Our hybrid list start with

- 4 Dorazil TEC prototype with 4 APV's and cable down
 - 30216640200001 30216640200002 30216640200003 30216640200004
- 25 Dorazil TECprototype with 4 APV's and cable up
 - 30216630200005 30216630200006 30216630200007 ...
 - ... 30216630200029 30216630200030
- ...