



Fermilab

TS-SSC-92-060B

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Subject: Coils for All Kapton Magnets

Recent coils for SSC dipole magnets have different features accidentally or intentionally. Recent changes are in the insulation materials and wedges. They are summarized in the attached table to date. This table was revised including information given by Roger Bossert. Please notify me if there is remaining correction.

Magnet		coil	cable	insulation	shim	wedge
DSA330 (Spalding)	UP-out	235	4-I-40	2H+2LT one side	+5	
	LW-out	236	4-I-58	2H+2LT one side	+5	
	UP-in	135	3-S-26	2H+butLT one side	+0	(1)
	LW-in	136	3-S-26	2H+butLT one side	+0	(1)
DSA331	UP-out	240	4-I-58	2NP one side+2NP one side	+0	
	LW-out	239	4-I-56	2NP one side+2NP one side	+0	
	UP-in	140	3-S-26	3NP one side	+0	
	LW-in	139	3-S-26	3NP one side	(+5)	(2)
DSA332	UP-out	237	4-I-58	2H+2LT one side	+10	
	LW-out	238	4-I-58	2H+2LT one side	+10	
	UP-in	137	3-I-66	2H+butLT one side	+0	
	LW-in	138	3-S-26	2H+butLT one side	+0	
DSA 333 (torlon)	UP-out	242	4-I-58	2H+2LT both side	+4	
	LW-out	243	4-I-51	2H+2LT both side	+4	
	UP-in	143	3-I-66	2H+butLT both side	+2	
	LW-in	144	3-I-66	2NP+butLT both side	+2	
DSA 334 (cryorad)	UP-out		4-O-25	2NP+2NP both side		
	LW-out		4-O-25	2NP+2NP both side		
	UP-in		3-I-66	2NP+butNP both side		
	LW-in		3-I-66	2NP+butNP both side		
DCA 320	UP-out	2022	4-S-29	2H+butLT one side	+5	
	LW-out	2023	4-S-29	2H+butLT one side	+5	
	UP-in	1021	3-I-66	2H+2LT one side	+0	
	LW-in	1022	3-I-68	2H+2LT one side	+0	
DCA 321	UP-out	2024	4-S-30	2H+butLT one side	+5	
	LW-out	2025	4-S-30	2H+butLT one side	+5	
	UP-in	1023	3-S-25	2H+2LT one side	+0	
	LW-in	1024	3-S-25	2H+2LT one side	+0	
DCA 322	UP-out	2026	4-S-31	2NP+2NP both side	+0	
	LW-out	2027	4-S-31	2NP+2NP both side	+0	
	UP-in	1025	3-S-35	2NP+butNP both side+0		
	LW-in	1026	3-S-36	2NP+butNP both side+0		
DCA 323	UP-out	2028	4-S-32	2NP+2NP both side		
	LW-out	2029	4-S-32	2NP+2NP both side		
	UP-in	1027	3-S-40	2NP+butNP both side		
	LW-in	1028	3-S-46	2NP+butNP both side		

(1) Two 15 mil shims in large wedge. Had difficulty

(2) 15 mil shim in large wedge could have been used insted of 30 mil one. The pole shim of 5 mil was used only in the quadrant 4.

- Standard wedges have 15 mil brass shim in small inner wedges, 30 mil shim in large inner wedges and 10 mil shim in outer wedges to compensate the cable thickness change.