

Summary of Pigtail Requirements

For the Barrel and Endcap Signal Feedthrough Projects

Updated December 11th 2001

M. Lefebvre, Victoria

Details can be found in the note [ATL-AL-EP-0001](#)

Barrel Feedthrough

Number of feedthrough units	64
Number of spare feedthroughs	6

connector	pigtail type
15A	T20
14A	T21
13A	T21
12A	T21
11A	T21
10A	T21
9A	T21
8A	T20
7A	T20
6A	T20
5A	T20
4A	T19
3A	T19
2A	T19
1A	T19

connector	pigtail type
15B	T20
14B	T20
13B	T21
12B	T21
11B	T21
10B	T21
9B	T21
8B	T20
7B	T20
6B	T20
5B	T20
4B	T19
3B	T19
2B	T19
1B	T19

pigtail type	per feedthrough	all barrel	spare feedthroughs	Total
T19	8	512	48	560
T20	11	704	66	770
T21	11	704	66	770
Total	30	1920	180	2100

Endcap Signal Feedthrough Project

Standard EM Feedthrough

Number of feedthrough units per endcap	16
Number of spare feedthroughs	3

connector	pigtail type
15A	T47
14A	T47
13A	T48
12A	T48
11A	T48
10A	T48
9A	T48
8A	T48
7A	T47
6A	T47
5A	T47
4A	T47
3A	T47
2A	T47
1A	T47

connector	pigtail type
15B	T47
14B	T47
13B	T48
12B	T48
11B	T48
10B	T48
9B	T48
8B	T48
7B	T47
6B	T47
5B	T47
4B	T47
3B	T47
2B	T47
1B	T47

pigtail type	per feedthrough	per endcap	both endcaps	spare feedthroughs
T47	18	288	576	54
T48	12	192	384	36
T49	0	0	0	0
T50	0	0	0	0
T51	0	0	0	0
T52	0	0	0	0
LV	0	0	0	0
Total	30	480	960	90

Endcap Signal Feedthrough Project

Special EM Feedthrough

Number of feedthrough units per endcap	4
Number of spare feedthroughs	1

connector	pigtail type
15A	T48
14A	T48
13A	T48
12A	T47
11A	T48
10A	T48
9A	T48
8A	T47
7A	T47
6A	T47
5A	T47
4A	T48
3A	T48
2A	T48
1A	T47

connector	pigtail type
15B	T48
14B	T48
13B	T48
12B	T47
11B	T48
10B	T48
9B	T48
8B	T47
7B	T47
6B	T47
5B	T47
4B	T48
3B	T48
2B	T48
1B	T47

pigtail type	per feedthrough	per endcap	both endcaps	spare feedthroughs
T47	12	48	96	12
T48	18	72	144	18
T49	0	0	0	0
T50	0	0	0	0
T51	0	0	0	0
T52	0	0	0	0
LV	0	0	0	0
Total	30	120	240	30

Endcap Signal Feedthrough Project

HEC Feedthrough

Number of feedthrough units per endcap	4
Number of spare feedthroughs	1

connector	pigtail type
15A	LV
14A	LV
13A	T51
12A	T51
11A	T51
10A	T50
9A	T50
8A	T49
7A	T49
6A	T49
5A	T49
4A	T47
3A	T47
2A	T48
1A	T48

connector	pigtail type
15B	LV
14B	LV
13B	T51
12B	T51
11B	T51
10B	T50
9B	T50
8B	T49
7B	T49
6B	T49
5B	T49
4B	T47
3B	T47
2B	T48
1B	T48

pigtail type	per feedthrough	per endcap	both endcaps	spare feedthroughs
T47	4	16	32	4
T48	4	16	32	4
T49	8	32	64	8
T50	4	16	32	4
T51	6	24	48	6
T52	0	0	0	0
LV	4	16	32	4
Total	30	120	240	30

Endcap Signal Feedthrough Project

FCAL Feedthrough

Number of feedthrough units per endcap	1
Number of spare feedthroughs	0

connector	pigtail type
15A	T52
14A	T52
13A	T52
12A	T52
11A	T52
10A	T52
9A	T52
8A	T52
7A	T52
6A	T52
5A	T52
4A	T52
3A	T52
2A	T52
1A	T52

connector	pigtail type
15B	T52
14B	T52
13B	T52
12B	T52
11B	T52
10B	T52
9B	T52
8B	T52
7B	T52
6B	T52
5B	T52
4B	T52
3B	T52
2B	T52
1B	T52

pigtail type	per feedthrough	per endcap	both endcaps	spare feedthroughs
T47	0	0	0	0
T48	0	0	0	0
T49	0	0	0	0
T50	0	0	0	0
T51	0	0	0	0
T52	30	30	60	0
LV	0	0	0	0
Total	30	30	60	0

SUMMARY OF PIGTAILS FOR ENDCAP SIGNAL FEEDTHROUGHS				
pigtail type	main feedthrough pigtails	spare feedthrough pigtails	real spare pigtails	total
T47	704	70	33	807
T48	560	58	24	642
T49	64	8	3	75
T50	32	4	3	39
T51	48	6	5	59
T52	60	0	3	63
LV	32	4	4	40
Total	1500	150	75	1725

PIGTAILS COVERED BY ORSAY/CANADA MOU				
pigtail type	main feedthrough pigtails	spare feedthrough pigtails	real spare pigtails	total
T47	704	70	15	789
T48	560	58	12	630
T49	64	8	3	75
T50	32	4	3	39
T51	32	4	3	39
T52	60	0	3	63
LV	0	0	0	0
Total	1452	144	39	1635