DUMMY TAIL PCBS 2 of 2 REV3.0 Tony smith 12/02/05

PRELIMINARY

PRELIMINARY

LONG TAIL C

USE MALE PART IF NOT USING FEEDTHROUGHS

50 WAY CANNON FEMALE NUMBERED AS MALE PART

FT13 FEEDTHROUGH

K13 50 WAY CANNON FEMALE

N.B. NIKHEF HYBRIDS HAVE CONNECTORS ON WRONG SIDE OF TAILS SO THE PINOUT IS DIFFERENT. eSSENTIALLY ALL THE ANALOG CHANNELS ARE IN REVERSE ORDER AND CONTROL LINES ON THE OUTER TWO CABLES ARE SWAPPED BUT THE HT IS ON THE SAME CABLE.

AMP 177983-4 receptacle

J3

J13

HT LINE IS GUARDED AND COMPLETELY SURROUNDED BY HTRET. THIS IS VIOLATED AT J14 ON THE PRESENT CABLE DESIGN. CAN WE CONSIDER REASSIGNING PINS ?

LONG TAIL D (LONGEST IN EXPERIMENT)

50 WAY CANNON FEMALE NUMBERED AS MALE PART

FT14 FEEDTHROUGH

K14 50 WAY CANNON FEMALE

N.B. NIKHEF HYBRIDS HAVE CONNECTORS ON WRONG SIDE OF TAILS SO THE PINOUT IS DIFFERENT. eSSENTIALLY ALL THE ANALOG CHANNELS ARE IN REVERSE ORDER AND CONTROL LINES ON THE OUTER TWO CABLES ARE SWAPPED BUT THE HT IS ON THE SAME CABLE.

AMP 177983-4 receptacle

J4

J14

sense4+

sense4-

* NOTE THAT HTRET CAN ONLY BE MADE AVAILABLE WHEN USING A DUMMY PCB AND A LIVERPOOL HYBRID, IF PROTOTYPE NIKHEF CABLES ARE USED WITH A LIVERPOOL HYBRID THEN HTRET WILL BE GROUNDED AT THE HYBRID END OF THE LONG CABLES

PRELIMINARY