

UVic Feedthrough Status (electrical)

Cables at UVic:

Pigtails:

Type	received
T47	318 + 18
T48	214 + 12
T49	32
T50	16
T51	16 + (10)
T52	33
LV	20

Vacuum Cables:

Signal	received: 600 (-112)	+438
LV	received: 40	

Cable tests:

Visual inspection of all cables

Pigtails:

- a) continuity and cross-wiring
- b) 64x64 cross talk for calibration cables

Vacuum cables:

- a) high-precision resistance measurement
- b) ground-contact resistance
- c) impedance of 6 channels out of 64
- d) cross-talk of nearest neighbours
- e) intermittence of signal traces

Currently Working on Database Entries

Pigtails:

Continuity and cross-wiring

64x64 cross talk matrix for calibration cables

Vacuum Cables:

R_{min} , R_{max} of all 32 channels of 1 microstrip line
(i.e. 4 entries per cable)

average Z of each 1 microstrip line
(i.e. 2 entries per cable)

Contact resistance - average value of each side
& number of good contacts out of 13
(i.e. 2x2 entries per cable)

Maximum and minimum subtracted cross-talk
(i.e. 2 entries per cable)

Electrical Feedthrough Tests at CERN

After reception	-cross-talk (nearest neighbour for vac. Cables) high precision R time required: 1-2 days/FT
Before installation	- none
During Installation	- none
After installation	- cross talk (nearest neighbour for vac. Cables) high precision R time required: 1-2 days/FT

Note: While the cross talk measurements are in progress, no welding can be preformed in the vicinity!