

Smart Research Ltd.

Electronics for the real world

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External Sidechain High Pass Filter 'Split' cable:

This cable rolls off low frequency signals below 150Hz feeding the external sidechain input, to reduce compression slightly at low frequencies, but without effecting the audio signal path.

Connection:

One cable is used for each channel. The normal input signal is connected to the female XLR, and the 'straight through' male XLR is connected to the C2's input. This allows operation as normal.

The 'High Pass s/c ip' male XLR is connected to the C2's 'External Sidechain Input'. This is a filtered copy of the normal input. When 'External s/c' is now selected with the front panel switch, the new filter is engaged, and if deselected the C2 runs as normal.

To use the filter in line with a different External Sidechain source, simply disregard the 'straight through' XLR connection.

Specification:

Note that for the following filter performance, the 'High Pass s/c ip' cable is designed to feed an Sidechain input with impedance of 10k Ohms from each XLR pin to ground. (as in the C2 Compressor). Lower impedance inputs will result in a higher corner frequency, and vice-versa.

Corner frequency: -3dB point 150Hz

Slope: -6dB/Octave

External Sidechain input impedance: 10k Ohms from each leg to ground.

Normal Input is wired one to one (pass-through).