MLRFIF

Radio Frequency Interference Filter

Are you picking up a Radio Station on your sound system? If it is coming through the Microphone Inputs on your mixer, the MLRFIF Filter cable probably provides the only effective solution.

Alectro Systems has been in the Sound System design and installation business since 1983. We have often needed to fight with Radio Frequency Interference, especially when the installation is nearby a Radio Transmitter. We found in many cases that the RFI was coming through the Microphone lines. Even though the cable is the proper type, properly installed, and the system is balanced and properly grounded, the RFI is still persistent.

We designed the MLRFIF Microphone / Line Radio Interference Filter Cable specifically to eliminate this source of interference. As far as we know, it provides the only effective solution.

The MLRFIF Filter will work on Balanced Line as well as Balanced Microphone signals. We can also make them for Unbalanced inputs, however you should never use Unbalanced Microphones under any circumstances and Unbalanced Line level should never be used beyond 25 feet (15 feet is a reasonable limit).

The MLRFIF consists of a 12 inch cable with a standard (XLR type) male 3-pin microphone connector on one end, and a female 3pin microphone connector on the other. All components are top professional quality. The RFI Filter is built into the male connector so that it is as close to the mixer input as possible.

To install it, you simply unplug the existing microphone cable from your mixer, plug the RFI Filter into the mixer in its place, and plug your microphone cable into the other end of the Filter cable.

The MLRFIF has no effect on the audio signal since it has a flat response from DC (below audio frequency) to 20KHz (above audio frequency). It almost totally annihilates Radio Frequencies from 500KHz up. This covers all radio bands from AM through Microwave. At the bottom end of the AM radio band (600KHz) the interference is reduced by more than 98.5% from its original level. As the frequency of the interference increases, the attenuation of the filter also increases, reducing the interference to even lower levels.

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