

# APPLICATION NOTE

## The Challenge

The world's most sophisticated video, broadcast, and recording studios require connector solutions with high reliability, unparalleled performance, and robust durability. Recent advancements in digital technology have increased the demand for audio connectors. Design engineers are constantly searching for new connector alternatives to meet the digital demands of the innovative audio industry.

## The ITT Solution ...

Many of our sales people, distributors, and customers are unaware that Cannon invented the first audio connector back in 1929. Since then, we have played an integral part designing and supplying audio connector products for a wide variety of digital applications and customers throughout the world. Our audio expertise not only covers the traditional XLR, XLB-PCB, XLM product offerings but also includes the design innovation necessary to meet today's special digital applications.

## Product Features

- XLR – Rated at 5A-15A with an operating temperature range of  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ . Available in configurations of 2 to 7 positions. These plugs and receptacles offer precision machined contacts, shock absorbing resilient rubber insulators, and light weight aluminum shells. This connector series is interchangeable / intermateable with XLA, XLG, XLB-PC, XLM connectors. RoHS Compliant.

- XLB-PCB – Rated at 3A with an operating temperature range of  $-35^{\circ}\text{C} \sim +85^{\circ}\text{C}$ . Features PCB mount receptacles with light weight plastic shells, nylon insulators (UL94V-O), and separate ground contacts. RoHS Compliant.

- XLM – Rated at 3A with an operating temperature range of  $-35^{\circ}\text{C} \sim +85^{\circ}\text{C}$ . Anti-EMI/RFI Zinc metal shell PCB mount receptacles with a space saving smaller shell, incorporating a separate ground contact and snap-in grounding terminal to assist with PCB assembly. RoHS Compliant.

## Potential Customers

- Broadcast and Production Companies
- Entertainment (TV, Video, Film) Companies
- TV / Video Camera Companies
- Medical Equipment Companies



## Benefits to the Customer

- XLR - Quick disconnect latch lock and rugged design to withstand extreme field use.
- XLB-PCB – Low cost, easy installation and intermateability with XLR connectors.
- XLM - Quick disconnect latch lock, easy installation and intermateability with XLR and XLB-PCB connectors.

## Applications

- TV Cameras
- Mixers/Recording equipment
- Microphones
- Amplifiers/ Speakers
- Medical Instruments
- Industrial control devices
- Test equipment

For application assistance, please contact:

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