

# MAGUIRE Enterprises, Inc. - Integration Cables for ZOLL Medical Defibrillators

*A summary of cabling solutions for physiologic signal transfer between Zoll defibrillators and external systems.*

The Zoll defibrillator and physiologic monitor can be integrated in any number of ways for the purpose creating an efficient monitoring system. MAGUIRE products are developed with this purpose in mind; to enable ECG and IBP signal transfer between medical devices. The most requested equipment arrangements utilize our 'Analog Output Multiplier' which allows these signals to advance from the primary monitor and simultaneously display onto the defibrillator as well as onto other critical equipment such as a balloon pump, pacer programmer, ultrasound and cardiac output monitor. This method of integration reduces the clutter associated with connecting duplicate sets of electrodes and patient cables. It also ensures that each connected device displays synchronized waveforms. When physiologic monitors are integrated and pre-connected with MAGUIRE products, staff can more quickly transition from patient setup toward diagnosis and delivery of care. Interconnect/slave cables are beneficial across many care areas including Emergency department trauma rooms, Critical Care areas, Cath/EP Labs, OR's and other areas where ECG and IBP signal transfer between medical devices is desirable. To select the 'Analog Output Multiplier' and corresponding ancillary cables, refer to the graphic below which includes product links to our website. To view additional Zoll Medical compatible connections, refer to pages 2-5 below or [VIEW OUR MOST POPULAR ZOLL RELATED PRODUCTS ONLINE BY CLICKING HERE](#).

## 1) Select the '257 Series' multiplier that corresponds with the primary monitor's analog output.

[ME590257P](#): GE Healthcare Patient Data Module, Carescape One

[ME590257E](#): GE Healthcare 7 pin MINI DIN analog output

[ME590257M](#): Mindray DPM (call for other models)

[ME590257S](#): Philips monitor w/ pressure module

[ME590257J](#): Spacelabs

[ME590257H](#): Draeger/Siemens

[ME590257YJ](#): Nihon Kohden (requires OEM cable)

## 2) Select up to four ECG interconnect/slave cables from the output multiplier to:

[ME590338J](#): Balloon Pump (ECG signal only via 1/4" AUX input)

[ME590335](#): Defibrillator - Zoll Medical (via patient cable input, Lead II)

[ME590132F](#): Ultrasound - GE Vivid i & q (via patient cable input, Lead II)

[ME590132](#): Ultrasound - GE Vivid 5, 7 or E9 (via patient cable input, Lead II)

[ME590338J](#): Ultrasound - Philips (via 1/4" AUX ECG input)

[ME590338J](#): Ultrasound - Siemens/Acuson (via 1/4" AUX ECG input)

## 3) Select two ECG & IBP interconnect/slave cables from the output multiplier to:

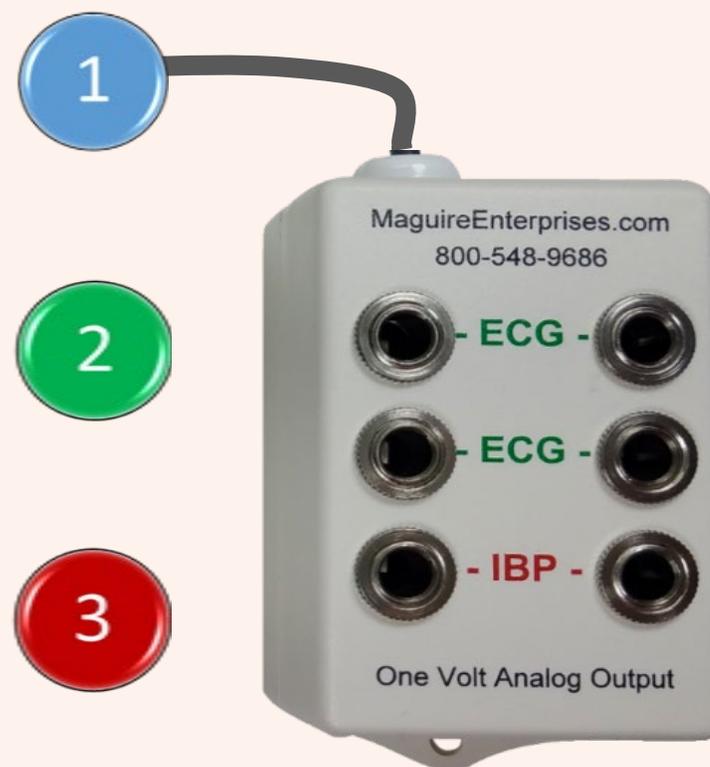
[ME590265E](#): CCO monitor - Edwards Hemosphere or Vigilance II

(cable is bifurcated to deliver ECG & IBP signal via AUX inputs)

[ME590265P](#): Balloon Pump

(cable is bifurcated to deliver ECG & IBP signal via AUX inputs)

[ME590338J](#): Balloon Pump (IBP signal only via 1/4" AUX input)

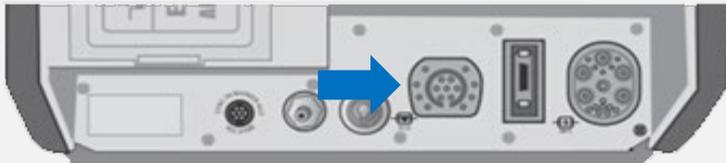




*Integration Cables by MAGUIRE Enterprises continued...*

The patient monitor can be used to advance the patient's ECG signal onto the Zoll defibrillator display. Choose from the interconnect cables shown below to achieve a synchronized display on both devices.

Transfer the analog signal FROM the primary monitor to the **ECG input** of all Zoll M, R and X Series defibrillators.



**Monitor OEM**

**Part#**

**Draeger**



[ME590015J](#)

**GE Healthcare**



Via the PDM patient data module [ME590185](#)



Direct from monitor output [ME590260](#)

**Philips Healthcare**



[ME590335](#)

**Spacelabs**



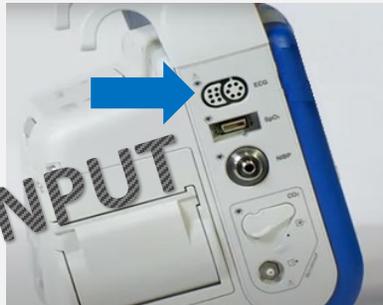
[ME590359](#)



Integration Cables by MAGUIRE Enterprises continued...

## Defibrillator Input Adapters

When connected to the **ECG or IBP** input of the Zoll defibrillator, a **MAGUIRE Input Adapter** is able to **make the Philips or GE Healthcare patient cable compatible with the monitor AND defibrillator**. Input Adapters allow clinicians to quickly disconnect the patient cable from the bedside monitor and connect to the **adapted input** of the Zoll defibrillator for continued vital signs monitoring. Having Zoll units equipped with input adapters, makes the switch from monitor to defibrillator simple and straightforward. Outfitting crash carts with input adapters is a great way to standardize monitoring connections across departments and facilitate quick transports. Best of all, input adapters help address ECRI's #1 Patient Safety Concern in 2020: 'Missed and Delayed Diagnosis'.



GE Healthcare

Philips Healthcare



[ME590230G](#)



[ME590030](#)



GE Healthcare

Philips Healthcare



[ME581](#)



[ME583](#)



*Integration Cables by MAGUIRE Enterprises continued...*

**Advancing Defibrillator ECG Waveforms onto Programmers & Peripherals**

Reduce cable clutter and unnecessary sets of electrodes with interconnect cables that transfer ECG signal from the ZOLL R Series defibrillator to pacer programmers and peripheral monitors. Use the interconnect cables listed below to speed up diagnosis and delivery of care in Cath/EP Labs, Hybrid and Cardiac operating rooms, or any area where slaving from a defibrillator to an external monitor is desirable.

Transfer the ECG signal from the *\*newer* Zoll R defib to an external monitor via the port labeled SYNC IN/MARKER OUT.



**ECG  
OUTPUT**



*\*Newer 'R' series models will present with a female 7-pin connector port.*

**Pacer Programmers**

Multi-Defib Adapter for Zoll R to Pacer Programmers  
(Medtronic, Boston Scientific, Biotronik, Abbott/St Jude)



[ME550DFB3](#)

Zoll M Series to Pacer Programmer  
(Medtronic, Boston Scientific, Biotronik, Abbott/St Jude)



ME550Z

Zoll R to **Biotronik** Pacer Programmer



[ME590090RN](#)

**Peripherals**

Zoll to **GE Healthcare** Monitors  
and select Ultrasounds



[ME590132BRN](#)

Zoll to **Philips Healthcare** Ultrasounds  
via the AUX ECG input



[ME590333RN](#)

Zoll to **Philips Healthcare** Monitors and  
select Ultrasounds via the 12 pin ECG input



[ME590009XRN](#)



## Integration Cables by MAGUIRE Enterprises continued...

### Transducer to Defibrillator IBP Interconnect Cables

For invasive hemodynamic monitoring, connect transducer cables to the IBP input of the ZOLL X and M Series defibrillators.

Medex Abbott, ICU Medical  
Transpac IV Transducers



[ME585F](#)

Edwards TruWave  
Transducers



[ME584F](#)



Input the IBP signal from the pressure transducer into the Zoll equipped defibrillator.

The MAGUIRE products listed in this guide represent our most requested Zoll Medical related connections. If you don't see the specific connection you're looking for, give us a call. We'll quickly look into the details and make a determination as to whether a design already exists or if a new product can be developed. We're proud to partner with Zoll Medical when needed to deliver efficient physiologic monitoring systems that enhance the function, value and ease of use of the defibrillator across diverse care areas and departments.