

## Wiring to an ECU-16 Panel using a Junction Box



**THIS APPLICATION NOTE IS FOR A SUITABLY SKILLED AND TECHNICALLY COMPETENT PERSON AND SUMMARISES KEY INFORMATION PROVIDED IN THE MAIN INSTALLATION MANUAL (DOCUMENT NO. DAU00000091). IF IN DOUBT, READ THE FULL MANUAL. ENSURE ALL POWER IS REMOVED BEFORE STARTING WORK.**

The purpose of this application note is to detail a method of wiring a large number of enhanced fire-rated field connections to an ECU-16 panel using a junction/adaptable box.

### **Equipment required for this Application Note**

One fire rated junction box/metal adaptable box c/w terminal strip connector and necessary tools.

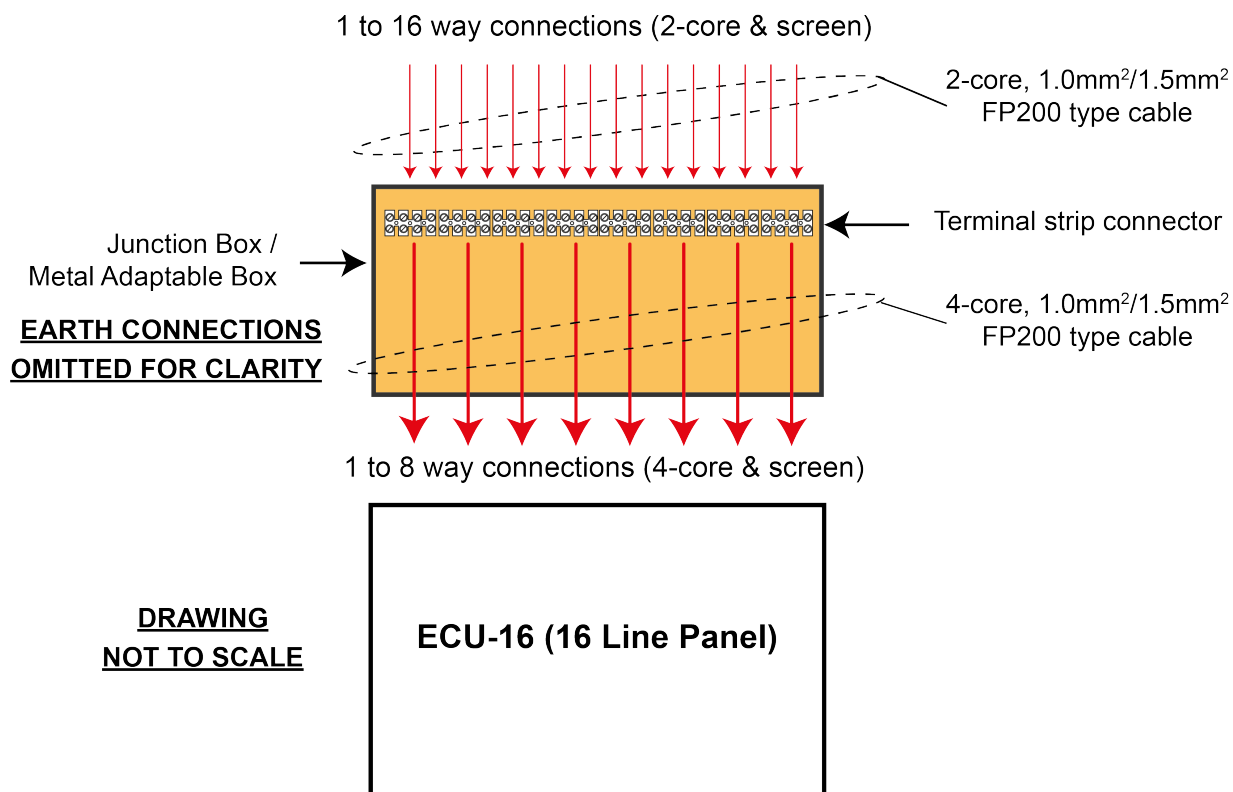
### **Interconnections**

For field wiring connections to the junction box, use 2-core, 1.0 mm<sup>2</sup> or 1.5 mm<sup>2</sup> enhanced fire-rated cable, e.g. FP200.

For field wiring connections from the junction box to the ECU-16 panel, use 4-core, 1.0 mm<sup>2</sup> or 1.5 mm<sup>2</sup> enhanced fire-rated cable, e.g. FP200

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### Suggested Wiring Method



**Suggested Wiring Method: Refer to the diagram above and follow the steps listed below:**

1. At the ECU-16, ensure mains power is isolated and the batteries are disconnected.
2. At the junction box, cut out holes to accommodate the field wiring connections & fit cable glands.
3. At the junction box, install a suitable terminal strip connector.
4. Install the junction box in a suitable position for wiring to the ECU-16.
5. Terminate all 2-core field connections (up to 16 cables) to the terminal strip connector in the junction box.
6. Using 4-core wiring connect up to 8 cables from the terminal strip connector to the ECU-16. Route cables through the cut outs and fit cable glands.
7. At the ECU-16, re-apply mains and battery power (typical connections shown below).

