

JUNCTION KIT

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This kit allows the connection between the power conductors, the ground conductor and signal cables (if available) in the jacketed cable from the pump to the drop cable.

The junction, when properly performed, provides:

- Electrical continuity in the power phases and the ground wire
- Electrical continuity in the two signal wires (if available. If not using a signal cable use the rubber bung to block the second hole),
- Insulation between the phases, between each phase and ground, and between each phase and the signal wires (if available)
- Watertight seal up to a maximum depth of 150 m / 500 ft submergence.

The kit consists of:

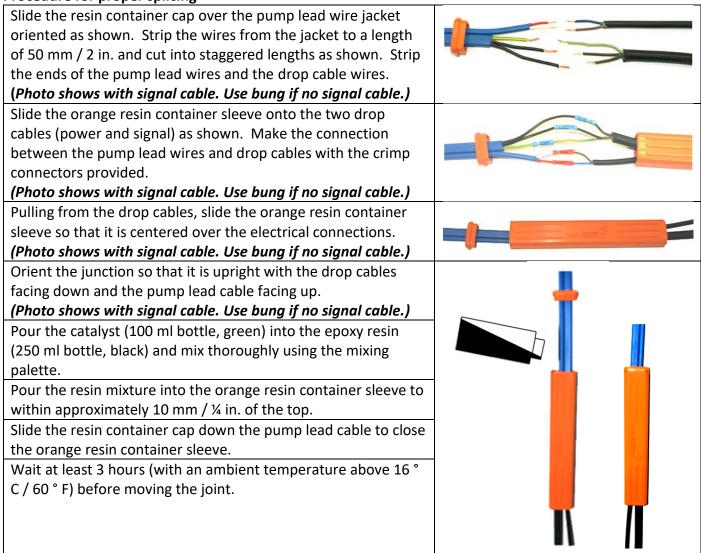
- qty. 4 yellow connectors for power cables from 4mm (AWG 11) to 6mm (AWG 9).
- qty. 4 blue connectors for power cables from 1.5mm (AWG 15) to 2.5mm (AWG 13).
- qty. 4 red connectors for power cable / signal cable (if available) from 0.75mm (AWG 18) to 2,5mm (AWG 13).

The type of connector used corresponds to the section of cable that you are joining (see Sections table in the installation and operating manual).

- A resin container sleeve (with cap on the cable jacket) to contain and protect the junction and casting resin.
- A jar of resin, a jar of hardener, and a mixing palette.

Regardless of the section being joined, the minimum diameter of the cable junction should be (in order to prevent leakage of the sealing resin during the casting) 12mm / 1/2 in. For the power cable (big hole) 8 mm / 5/16 in. For the signal cable, if available (small hole).

Procedure for proper splicing



After completing the connection, the integrity and continuity of the ground connection must be checked prior to use. A resistance measurement taken between the motor housing / pump and the ground terminal of the cable connection must provide a value of less than 3 Ohm.

After joining the cables and placing the pump in the well you must perform a test of insulation: wire the two power cables together and, applying a voltage of 500V, check insulation resistance from the ground to verify a resistance higher than 100 M Ohm. Wire the two signal cables together (if available) and, applying a voltage of 500V, check insulation resistance from the ground to verify a resistance higher than 100 M Ohm.