



SAAPZ Splice Kit

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INTRODUCTION

Up to four SAAPZs, or three SAAPZs and one SAAF may have their cables connected together using a single SAAPZ Splice Kit, with a common single cable running from the splice point to the Data Logger. Note that in some cases it may be possible to join more than four instruments onto one cable, contact **Measurand** for more information. This single cable can go into an SAA232 or SAA232-5 port.

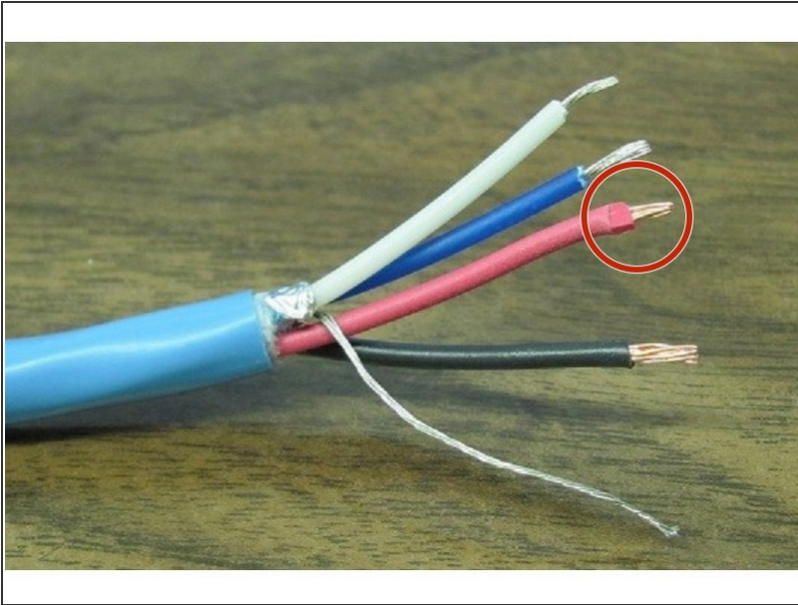
The SAAPZ splice kit consists of the following items:

- An SAATERM board with 5 terminal blocks
- A clear plastic potting tube
- Scotchcast™ 2131 B two part potting compound

This Guide references the following documentation:

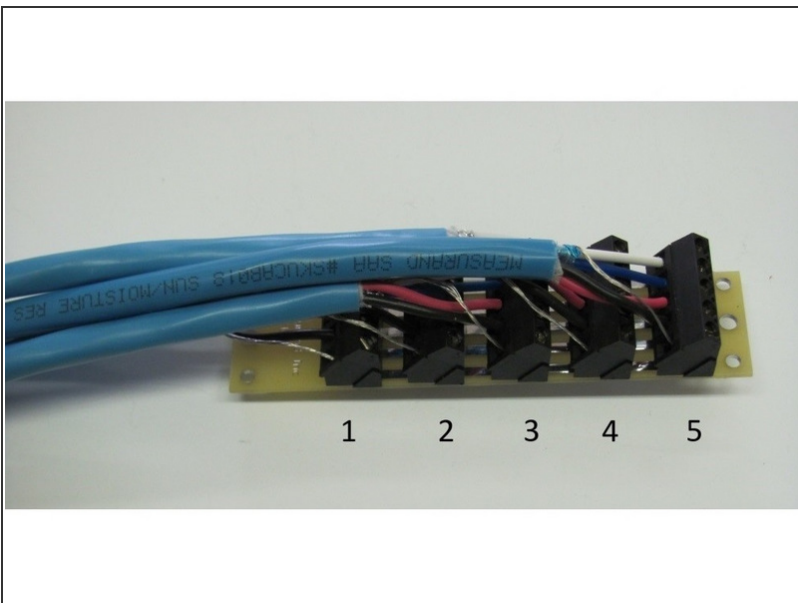
['SAAPZ'](#)

Step 1 — Preparing the Wires



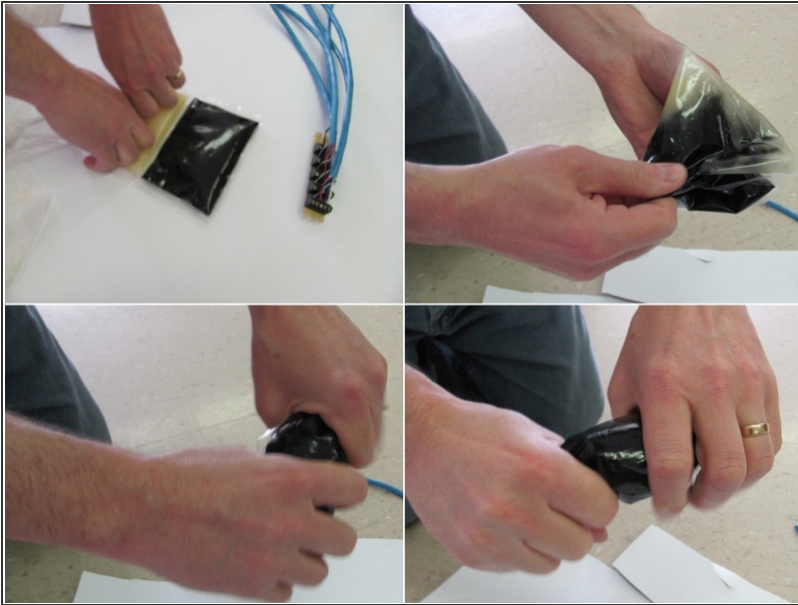
- Assemble all the wires you will be splicing together, the splice kit, some wire cutters and wire strippers
- Remove approximately 25 mm to 40 mm of the blue cable insulation to reveal the wires contained inside
- Sand the blue cable behind the wires (sanded section should measure approximately 25 mm)
- Strip the insulation from the wires in the cable
 - Be careful to remove between 5.5 mm and 7 mm of insulation
 - Removing too much insulation could lead to bare wires touching causing a short, removing too little insulation could lead to bad contact with the terminal block

Step 2 — SAATERM Terminal Blocks



- Screw wires into the SAATERM terminal blocks using the same wiring scheme as shown on the SAA232
- Start wiring at Block 1 and continue through to Block 5 being careful to arrange the cables in as small a bundle as possible

Step 3 — Preparing the Potting Compound



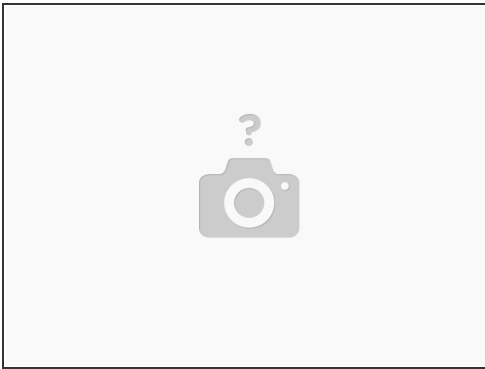
- ★ In colder weather make sure to warm up the potting compound before mixing
- ⓘ Follow the recommendations on the package
- Mix the two part potting compound as per the instruction on the package
- ⚠ Thoroughly mix the potting compound for 1 minute before using

Step 4 — Using the Potting Compound



- Pour the potting compound into the potting tube
- Insert the SAATERM board and cables into the potting tube
- ⓘ Make sure that the potting compound covers the cables such that there are no exposed wires

Step 5 — Finishing Up



- Attach the completed splice to the PVC conduit using zip ties, or dig a small hole next to the conduit and place the potting tube upright in the hole
- The potting compound will:
 - **Set within 15 minutes**
 - **Finish curing within 24 hours**
- To protect the potting compound during this time, you may wish to tape the top of the splice kit closed using electrical or duct tape

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