

# Splicing Shielded, Twisted Pair wire

Trim outer jacket to expose about 6" (15 cm) of the shield

Pick the wires from the shield and twist the shield into a separate "conductor"

Cut one of the conductors to about 3" (8 cm) of length.

Strip back the insulation from each wire for a length of about 1" (2.5 cm)

Prepare the second cable to be spliced as in figure 1, remembering to alternate the shorter length as illustrated in figure 1. Offsetting the splices helps to eliminate stray wires "punching through" the splice insulation.

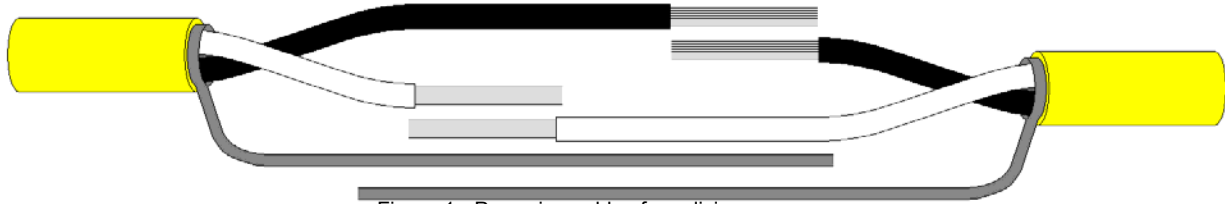


Figure 1 - Preparing cables for splicing

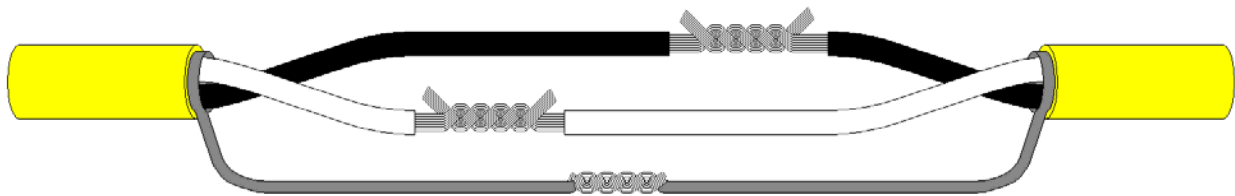


Figure 2 - Twist each of the wires together and the shield. Soldering the connection will help maintain good conduction for wet environments.



Figure 3 - Apply shrink tubing or tape to each of the twisted conductors to insulate the connection

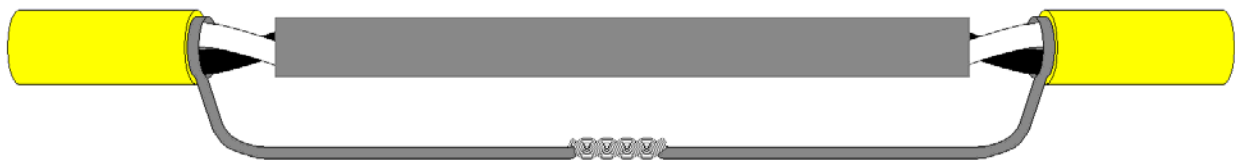


Figure 4 - Apply insulating tape to both conductors along the entire length of the splice.



Figure 5 - Apply insulating tape to the outer jacket along the entire length of the splice. Shrink tubing may also be used.