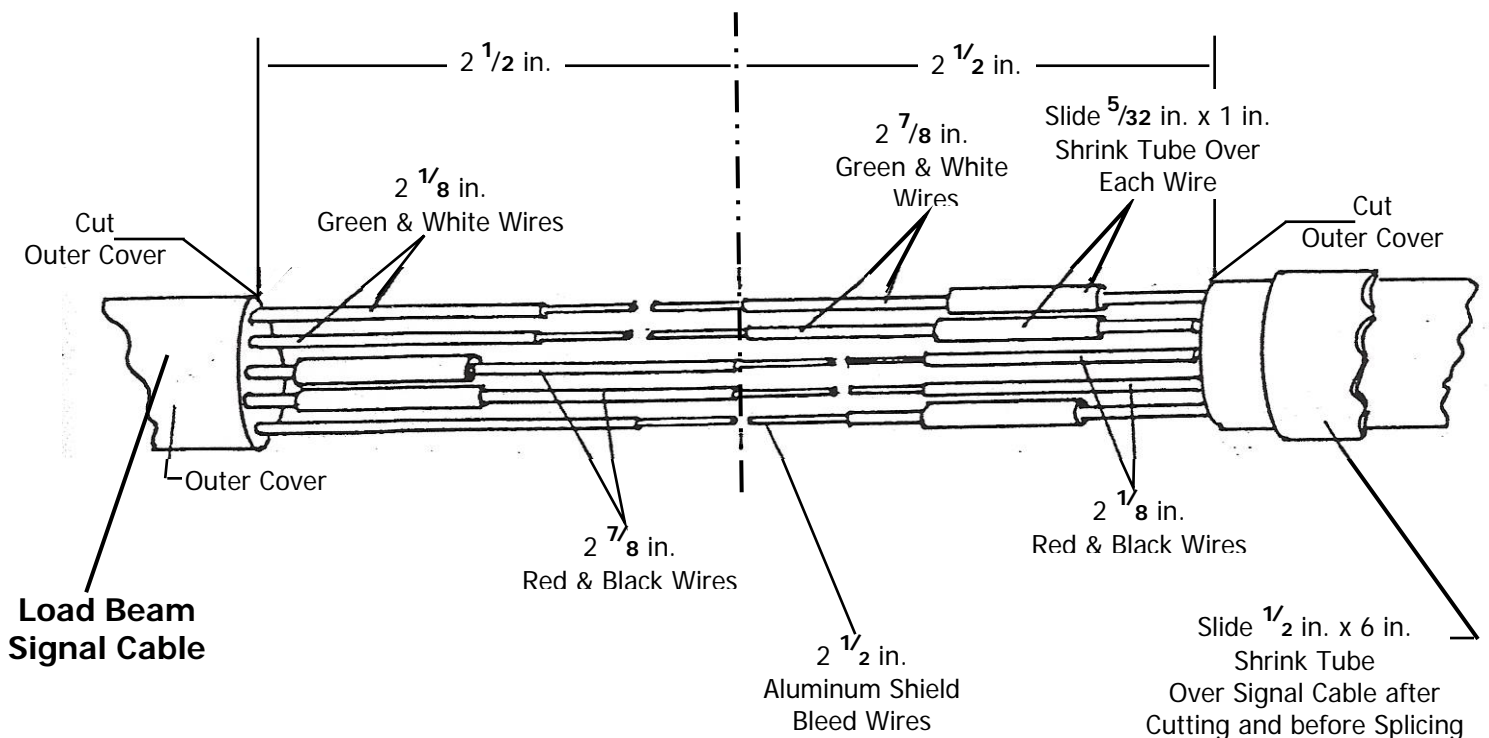


# TRANS-DATA

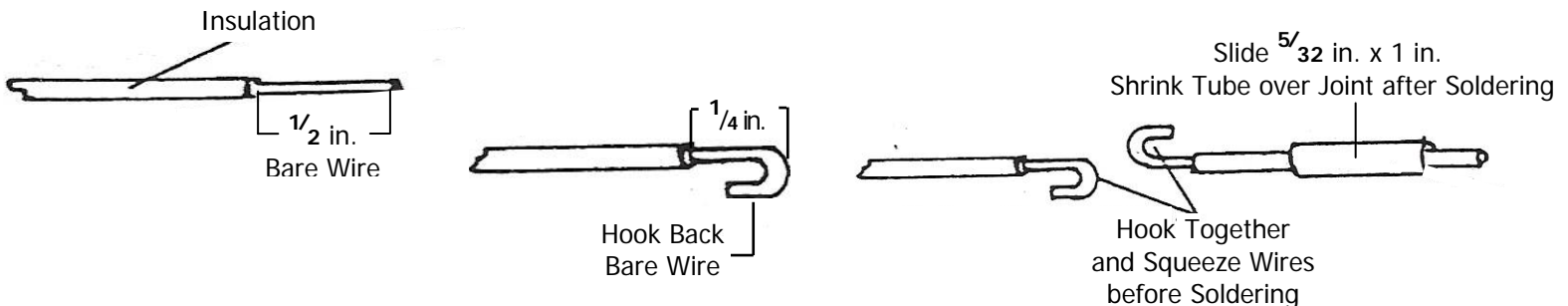
ON-BOARD WEIGHT SYSTEMS  
DATA ACQUISITION SYSTEMS

## 4.4.3

### LOAD BEAM CABLE SPLICE



### TYPICAL SPLICE CONNECTION



### CABLE SPLICE INSTRUCTIONS

1. Pull back the split loom wire cover and cut back the outer cable jacket 3 inches on either side of the break after trimming any frayed or uneven wires (cut back outer cable jacket only, not the aluminum shield bleed).
2. Cut the green and white wires on one side of the splice to  $2\frac{1}{8}$  inches long. Trim the green and white wires on the other side of the splice to  $2\frac{7}{8}$  inches long. Trim the red and black wires the opposite lengths as shown in the Load Beam Cable Splice drawing above. Cut the aluminum bleed wire to  $2\frac{1}{2}$  inches on each side of the splice.
3. Remove the insulation on each wire so  $\frac{1}{2}$  inch of bare wire is exposed on each side of the splice. Tin the ends of each bare wire with  $40/60$  solder.
4. Put the  $\frac{5}{32}$  inch x 1 inch shrink tube over the long end of the signal wire and the bleed wire. Slide a  $\frac{1}{2}$  inch x 6 inch shrink tube over the whole beam signal cable.
5. Hook back the wire ends  $\frac{1}{4}$  inch as shown in the Typical Splice Connection drawing above. Connect the hooks and squeeze the wires and then solder. Slide the shrink tube over the hooked joint and heat. After all wires have been soldered and the  $\frac{5}{32}$  inch x 1 inch shrink tubes are shrunk in place, wrap the splice tightly with black electrical tape.
6. Put the  $\frac{1}{2}$  inch x 6 inch shrink tube over the total splice and heat then replace the split loom harness.