

## Termination of 24VD100W Power Supply Leads for use with Somfy ST30 Motors

### 24VD100W Wire Polarity

See Power Supply Label

### Sonesse ST30 Lead Polarity

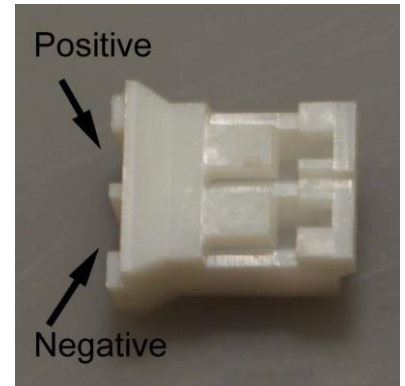
#### As supplied by Somfy w/motor

Positive (+) – White Wire w/ Black Line  
Negative (-) – Solid White Wire



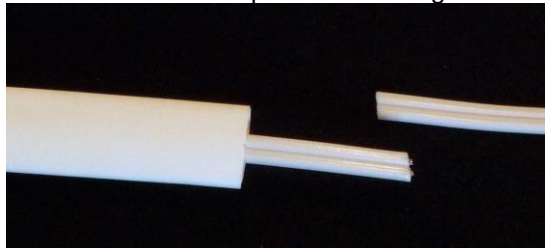
#### As supplied by AVO as custom lead

Tinned Copper Wire – Negative (-)  
Copper Wire – Positive (+)



### Optional Splice Connection - Connecting the 24VD100W to a ST30 Motor

- 1) Determine which wires are positive and negative on both the power supply and ST30 lead.
- 2) Cut the Heat Shrink tube Supplied with the optional Butt Splice Kit into 3 Pieces. 1.5", 0.75" and 0.75"
- 3) Put the 1.5" Piece of Heat Shrink Tube over both positive and negative leads of one of the wires.



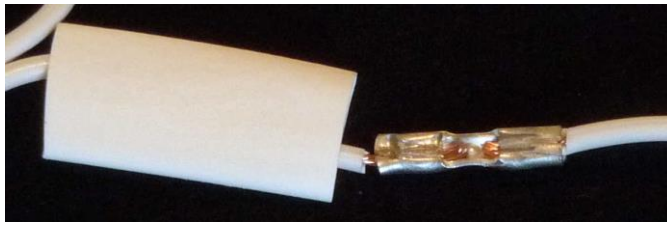
- 4) Separate the positive and negative wires app. 1" and strip the insulation off each wire to 1/2 the length of the butt splice. Note: Cut off solder tinned leads if they are present. The stripped portion to be crimped must be stranded copper.



- 5) Slide on 3/4" Heat Shrink onto one of the positive leads.

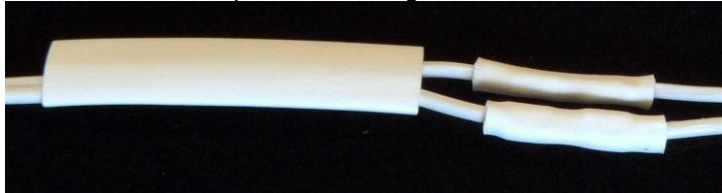


- 6) Slide the positive wires into opposing ends of the butt splice until each is visible in the center of the splice and crimp.



- 7) Pull on the wires to ensure a good crimp is achieved.
- 8) Repeat Steps 5, 6 & 7 for the negative lead.

- 9) Center the individual  $\frac{3}{4}$ " heat shrink over the butt splice connections and shrink the tube using a heat shrink gun, hair dryer or lighter. Use caution to prevent burning the wire.



- 10) Center the 1.5" heat shrink over both butt splice connections and shrink the tube using a heat shrink gun, hair dryer or lighter. Use caution to prevent burning the wire.

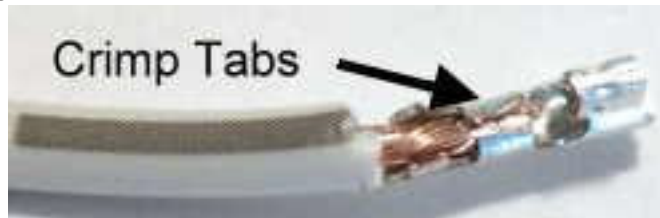


### Optional Connector Kit - Self Termination of Power Supply Leads

- 1) Cut the Contacts as shown



- 2) Strip and insert wire into depth equal to the fold over tab. We always do the positive first and recommend doing one at a time.
- 3) Crimp over the 2 tabs.



- 4) Solder the connection
- 5) Insert the wire into the proper position of the ST30 Connector.
- 6) Repeat process for the negative lead.