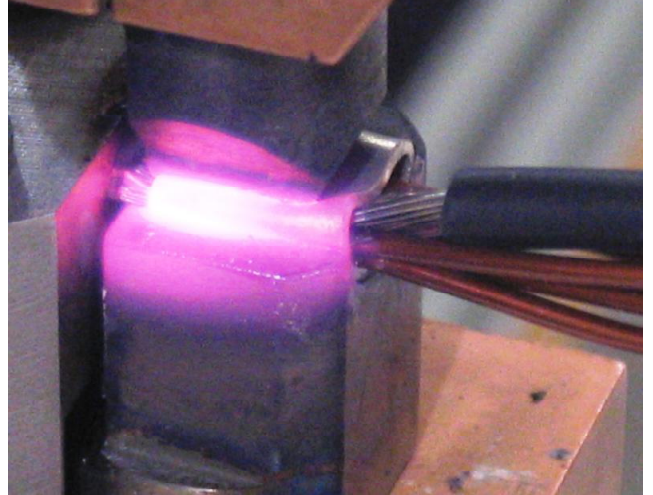


## New Developments in Lead Connection for Large Lead/Magnet Wire Bundles

### Patented Tube Fusing Technology

In tube fusing, traditional connectors are made redundant by a simple and inexpensive tube which captures the wires to be connected. Resistively heated fusing electrodes apply the necessary pressure and heat to the tube/wire bundle to make a reliable connection. These machines are versatile for most any application including fusing magnet wires, Litz wire and/or insulated leads within a tube terminal.



### Eliminate Stripping and Brazing

This patented technology eliminates the need for an operator to strip the magnet wire from the leads prior to fusing the lead bundle. Capable of fusing up to 150 x 18AWG (1.0mm) wires in parallel, the heat of the fusing operation burns off the wire enamel while the tin from the tube cleans the area to be connected. The force of the head combined with the controlled heating of the electrode creates a reliable connection while minimizing manual operations.

### Thermal Crimp Fusing Technology

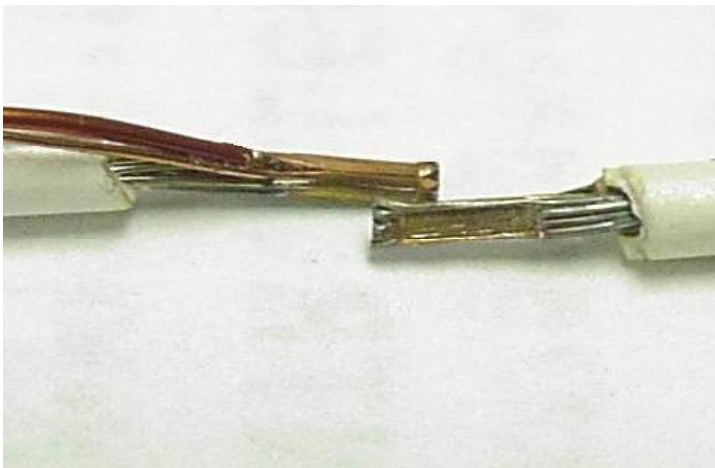
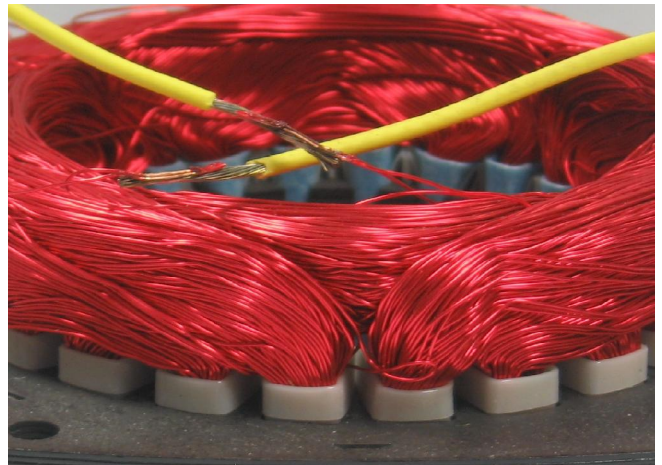
With the patented thermal crimp technology, the connector is automatically made from a strip of tinned copper material. This connector is then presented to the operator for placement of the magnet wire and/or lead wire. Once fused, excess wire is trimmed from the connector resulting in the smallest possible package with the highest quality connection.



# New Developments in Small Magnet Wire to Lead Wire Connection Technology

## Patented Fuse-A-Wire Technology

Fuse-A-Wire technology allows for magnet wire to be connected directly to a tinned lead wire without the need for an external connector. This patented technology is fast (fusing the connection in less than 1 second) and extremely economical when compared to traditional splice or insulation displacement connectors. Machines are available with A.C. or D.C. inverter duty power supplies.



## Eliminate the Need for Splice Connectors

Fuse-A-Wire technology is unique in that it eliminates the need to a splice connector to be used between the magnet wire and the tinned lead wire. Not only does this lower the material cost of your product, but it also eliminates the need to stock different connectors that are sized specifically to the wire bundle size.

## Process Control Features

As with patented tube fusing technology, Fuse-A-Wire machines can be equipped with advanced process and control features that are not traditional connection methods. Machines can accurately control electrode current, temperature, force, fusing head displacement and fusing time. Not only does this level of control significantly improve the quality of the connection, but a fusing machine requires much less training for an operator, maintenance or the purchase of expensive, specialized connectors.

Subgroup size	Current values			Current values		
	Left Terminal			Right Terminal		
	Displ.	Force	Current	Displ.	Force	Current
5	16.0	67.00	3357	20.0	68.00	3345
Part #						
1	.0180	67.00	3332	.0170	68.00	3348
2	.0190	68.00	3327	.0180	67.00	3353
3	.0190	67.00	3341	.0180	67.00	3326
4	.0190	67.00	3334	.0180	67.00	3352
5	.0190	67.00	3349	.0180	67.00	3326
6	.0190	68.00	3326	.0180	67.00	3356
7	.0180	67.00	3331	.0170	68.00	3340
8	.0180	67.00	3347	.0170	68.00	3345
9	.0190	67.00	3326	.0180	68.00	3345
10	.0180	67.00	3330	.0180	67.00	3342
X 10	.0188	67.20	3337	.0178	67.20	3341
X 100	.0184	67.38	3341	.0174	67.32	3342
R 100	.0013	00.95	0023	.0013	00.95	0024
CpK 100	2.03	1.94	4.79	1.42	1.89	4.58
Cp 100	2.98	2.04	5.08	2.98	2.04	4.85
U.S.L.	25	70	3500	25	70	3500
L.S.L.	15	65	3200	15	65	3200



SPC spec totals  
 # in = 100  
 # out = 0

Shift 100