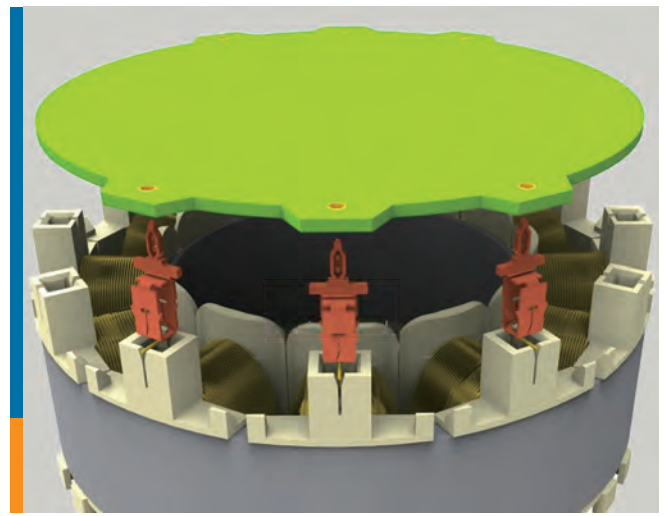# MAG-MATE TERMINALS WITH MULTISPRING PIN

Say goodbye to magnet wire soldering and PCB soldering

OVERVIEW

The MAG-MATE terminal with Multispring pin combines two key technologies to eliminate the need to solder in a motor connection. It provides the ability to directly connect magnet wire to a PCB with no solder. Traditionally, the process is to solder magnet wire to a pin, assemble the PCB to the pin, and then solder the PCB to the pin. Not anymore! This product allows solderless magnet wire termination in the IDC (Insulation Displacement Connection) at the bottom and solderless PCB termination through press-fit Multispring pin on the top.
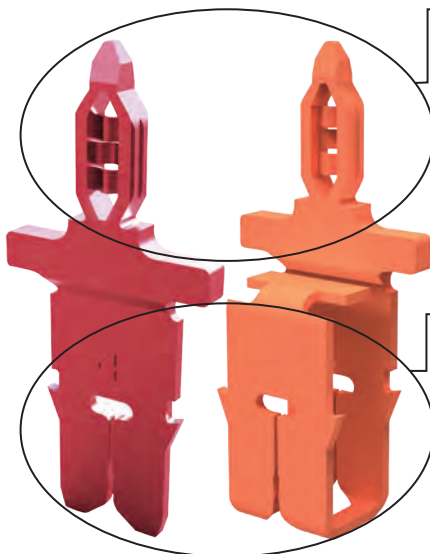
KEY FEATURES

Features of the Multispring pin
- Large gas-tight contact zone
- High reliability due to stored energy
- Minimum damage to plated-through holes during application
- Especially suited for multi-layer PCBs
- More economic board manufacturing due to larger hole tolerances compared to the use of a solid pin
- Application can be made by the end-user
- High-end TE Connectivity application tooling available
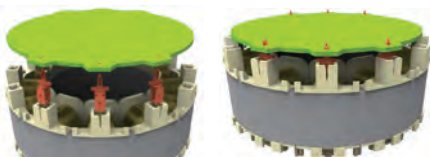- Extraction force: Pin/PCB min 40N

Features of the MAG-MATE Terminal
- Terminates all magnet wire film insulations
- Eliminates need for pre-stripping conductors
- Eliminates need to solder/weld
- Excess magnet wire is automatically trimmed during the termination process
- Simultaneously terminates two magnet wires of the same size in one terminal (for splicing or bi-filing)
- Available in strip form for either semi-automatic or fully-automatic insertions
- High speed, fully-automated integrated systems provide uniform terminations reliably at a very low applied cost
- Clean metal-to-metal interface produces stable, gas-tight electrical terminations free of oxides and other contaminants

APPLICATIONS

Any motor or other magnet wire application that requires a direct PCB connection.

SPECIFICATIONS

Product Specification: 108-74116
Application Specification: 114-74109
Cavity Specification: 114-74109-5

Slim Line Part No.*	Standard Part No.	Copper Wire	Aluminum Wire
2120743-2	1247000-2	0.180 - 0.265	N/A
2120744-2	1247001-2	0.265 - 0.400	0.32 - 0.45
2120745-2	1247002-2	0.400 - 0.630	0.57 - 0.72
2120746-2	1247003-2	0.630 - 0.850	0.72 - 0.91
2120747-2	1247004-2	0.850 - 1.120	0.95 - 1.15

* For slim line MAG-MATE terminals with Multispring pin for aluminum magnet wire, please consult TE Connectivity.

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