



**POWERTECH**  
C O M P O N E N T S

*Precisely Designed. Simple to use.*

# **Hot Runner Wiring Systems And Cables**

***Eliminate Downtime Due to  
Mold Wiring Problems***



## ***The Key to Hidden Profits:***

Get Molds up and running faster  
and keep them running!

## ***Become More Competitive:***

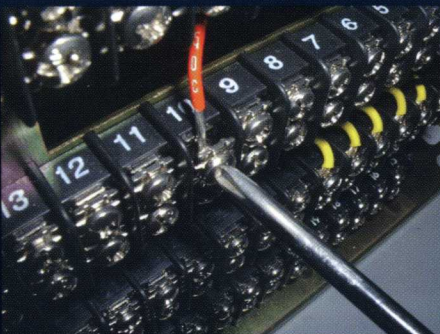
- Reduce Setup Time
- Reduce Costly Breakdowns
- Simplify Troubleshooting

## ***Exclusive TITAN Connections***

***Mean NO Cable Pull Out  
and NO Pin Push Out***

***Guaranteed***

see page 4 for details



**POWERTECH is the Standard**  
**Real Solutions for Hot Runner Installation and Maintenance**

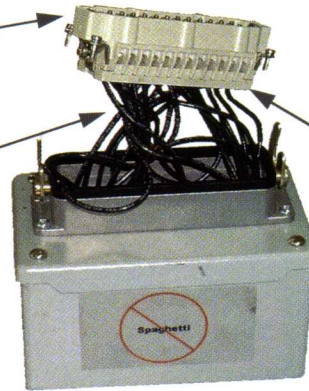
Arcing terminals and loose wires can cause heater failure or lost thermocouples.

Incorrect wiring can cause runaway heating and severe mold damage.

This is the way molds were wired before **POWERTECH**. The connectors are mounted in an empty box or buried in the mold base.

Which Pin controls which zone?

If a mold zone goes down, which wire do you start checking?



If you have to disconnect the wires from the connector..... what happens to the wire protection plate? Probably on the floor somewhere setting up yet another failure point.

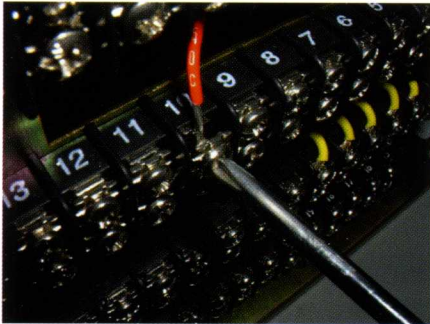
How long is a mold going to be down just trying to figure out where to start?

**POWERTECH** Mold Wiring Systems *Eliminate* the mess of finding a bad zone in a maze of dangling wires.

**POWERTECH** Mold Wiring Systems *Eliminate* the guesswork that is usually associated with wiring a Hot Runner System. It's actually *simple* the **POWERTECH** way.

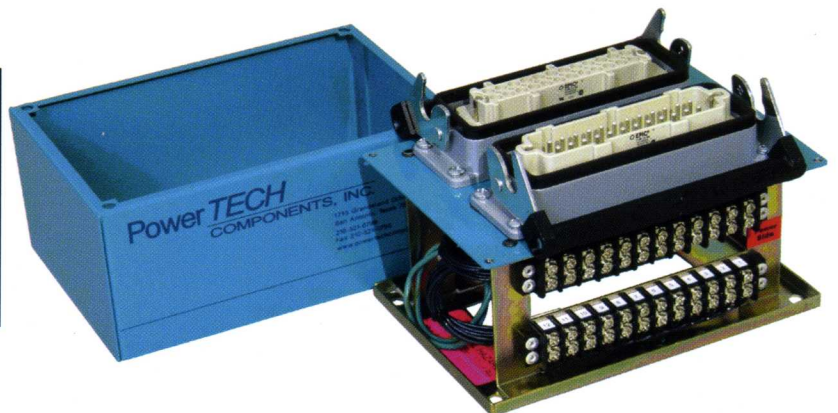
*Here's how they work.*

- All terminal block positions have pressure SEMS Screws.
- The captive plate moves out when the screw is loosened.
- Slide the wire under the SEMS plate and tighten the screw.
- There are four terminal blocks for each mold zone. Two on one side for Power and two on the other side for Thermocouples.
- All terminal block positions are numbered by *Mold Zone*.
- The Mold Connectors are pre-wired to the correct terminal block position at the factory.
- No Crimping!
- No Ferrules!



**POWERTECH** Connections mean

- Greatly reduced Heater and Thermocouple failure.
- Correct wiring every time.
- Zone by Zone integrity.
- The simplest troubleshooting ever.



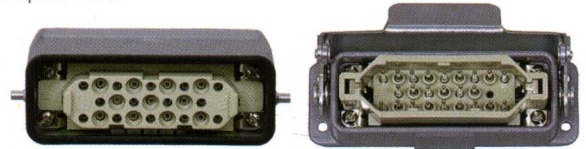
This is what a standard industry cable looks like and the two most common causes of Hot Runner failure.

**First**, Cord type cables pull out from the connector housing causing dead zones and shorts.

The reason this happens is there is no way to tighten the gland tight enough to hold the cord in place without damaging the wires.



The **second** major reason for failure is Pin Push-Out. Pin Push-Out is Common in any Connector that uses Crimped Pins.



**POWERTECH** has developed a proprietary process to retain these pins in a manner that Guarantees **NO PIN PUSH OUT!**



*Solve* these problems once and for all with **POWERTECH**

### Avoid Costly Mistakes

- All Cables are Clearly Labeled for Mold End or Controller End.
- **Plus.....**
- Color Coded—**Black** for Power  
**Gray** for Thermocouple.

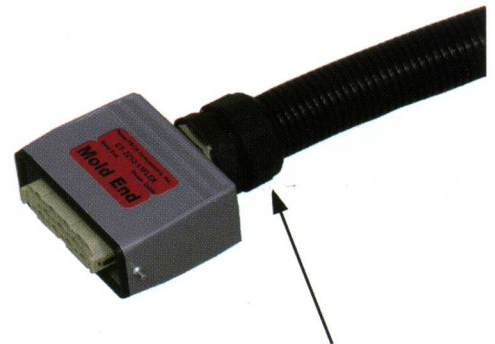
**POWERTECH** cables are guaranteed **NOT** to pull out of the housing and are guaranteed **NO PIN PUSH OUT!** See page 4 for details.

**Black** for Power



**Gray** for Thermocouple

- Both Power and Thermocouple cables have 100% stranded wire for maximum Flexibility and Durability.
- All Connections are fully tested for wiring integrity.
- Heavy duty industrial grade flexible conduit for maximum wire protection.
- **Robotics Grade** Conduit is Available for Stack Mold and Robotic applications. See page 4



The conduit gland is *completely independent* from the wiring ensuring a positive, secure connection.

**ALL POWERTECH** Products use **ONLY** Solid Screw-Machined Pins

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