

MONOPLUG 2.5 CONNECTOR

The next generation female connector meeting RAST 2.5 standards.

TE Connectivity's (TE) new MonoPlug 2.5 connector meeting RAST standards is an insulation displacement connection (IDC) product with advanced features and materials. It is designed for ease of assembly whether using basic bench tools, semi-automatic equipment or highly automated harness making machines.

The through hole design supports daisy chain or bus applications while eliminating the need for a separate cover. These female connectors can be mated to PC board mounted headers or directly to the edge of the PC board using a frame.

Available with two through 13 positions, it can be fully or selectively loaded. MonoPlug 2.5 connectors accept seven- or twelve-strand wire sizes from 24 to 22 AWG, and insulation ranging from 1.2 to 1.6mm diameter. Versions capable of accommodating other wire sizes are in development. The product is offered with front keying only or front and rear keying. The MonoPlug 2.5 connector will be submitted for VDE testing.

Applications

Appliances

- Washers and dryers
- Dishwashers
- Refrigeration
- Microwave ovens
- Air conditioners

Industrial Equipment

- Control boards for industrial machinery
- Low power motor controls

Commerical Building Equipment

- Lighting
- HVAC systems

Automotive

- Automobiles
- Industrial & Commerical Transportation

Key Features

- Advanced housing material
- Terminal protection
- Through hole design of housing
- Optimized insertion diameters
- New application tooling

Benefits

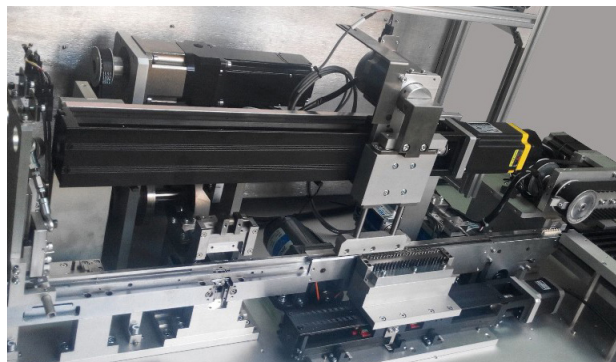
- Single material meets a broad range of requirements globally – Glow Wire test 750 degree C no flame, UL 94 V-0 and CTI 400. No need to change materials/part numbers for different geographic regions
- Reduces concerns for damaged connections
- Permits bus/pass-through/daisy chain connections
- Reduced cycle time when using semi-automatic termination machines
- Allows users to select cost effective semi-automatic insertion machine or electric powered bench machine

Application Tooling

In addition to the Monoplug 2.5 connector itself, TE also offers new tooling to apply the connector.

Semi-Automatic Termination Machine

- Ultra-low cycle time: 1.0s (avg.) or less per line (depending on harness structure, operator speed)
- Advanced motor drives in IDC termination section help assure termination quality, low noise, long life
- Compatible for full keying, selectively loaded connectors to reduce inventory and part number complexity at customer site
- Operator-friendly user interface permits easy selection of options
- Production localized into China to better support Asia/Pacific customers in cost, field services and lead times



Electric Bench Tool Termination Machine

- Assures IDC termination quality, much improved compared with previous hand tools
- Reasonable cycle times: 5s (avg.) per line
- Available in various functions: single step or multi step move termination
- Electric motor powered termination reduces labor and can be controlled by hand or foot switch
- Keying cut function is also incorporated
- Localized in China, very economical solution for samples and low volume and production
- Hand tools for after sales service also available



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