

High Performance Spring Probe Connectors

DESCRIPTION

Revised 05/04 1307920

- High performance spring probe connectors for demanding applications
- Available in both custom designed and standard versions
- Available in a variety of rectangular and circular configurations

APPLICATIONS

- Ideal for mobile and hand held equipment used in applications demanding optimum electrical and mechanical performance.
- Potential markets include medical, military, test and measurement equipment, and instrumentation.
- Typically used in board-to-board, probe assembly, battery connections, or as I/O connector on hand held devices.

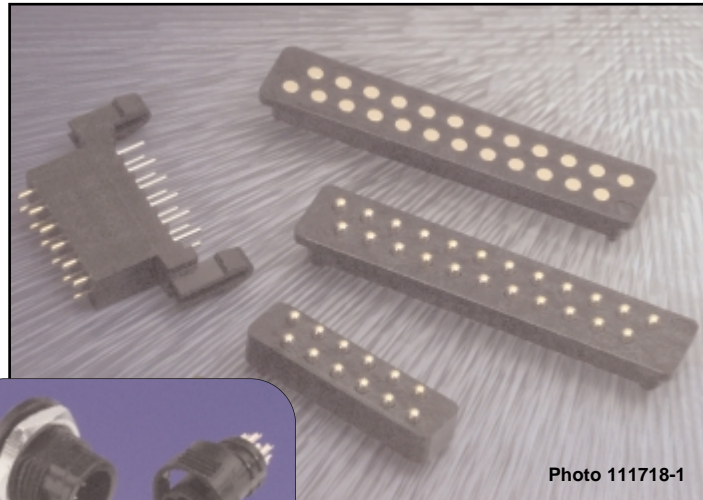


Photo 111718-1

KEY FEATURES

- Three contact styles available: low profile surface mount, high density through-hole, and high density solder cup (for cable applications)
- Internal "pin in socket" design provides multiple current paths and enhanced electrical and mechanical performance versus standard spring probe designs
- Robust screw machine construction
- Wide mating tolerance range
- High mechanical cycle life (up to 40,000 cycles)
- Readily adaptable to new connector configurations
- Can be mated directly to pcb, flex circuit or custom pad connector

ELECTRICAL

- Contact current rating up to 2 amps, maximum
- Low resistance contact design - less than 30 milliohms maximum.

MECHANICAL

- Typical effective contact working range of 1mm (.040")
- High mechanical cycle life - up to 40,000 cycles
- -25 to +85°C operating temperature range

MATERIALS

- Au plated interface
- Machined brass body
- Stainless steel spring
- Housings are high temperature thermoplastic, 94 V-0 rated

FOR MORE INFORMATION

Technical Support

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newproducts@tycoelectronics.com

USA: 1-800-522-6752

Canada: 1-905-470-4425

Mexico: 01-800-733-8926

C. America: 52-55-5-792-0425

South America: 55-11-3611-1514

Hong Kong: 852-2735-1628

Japan: 81-44-844-8013

UK: 44-141-810-8967

new product

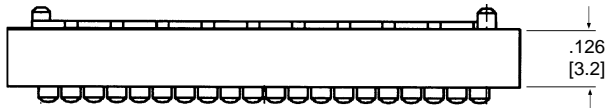
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STANDARDS & SPECS

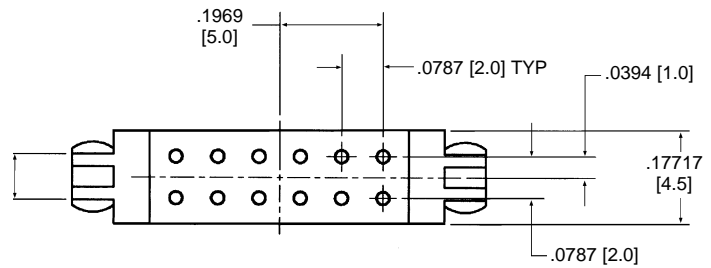
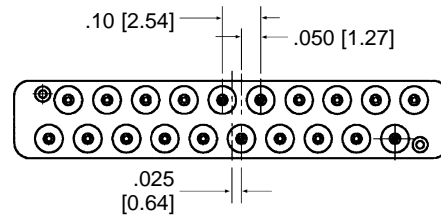
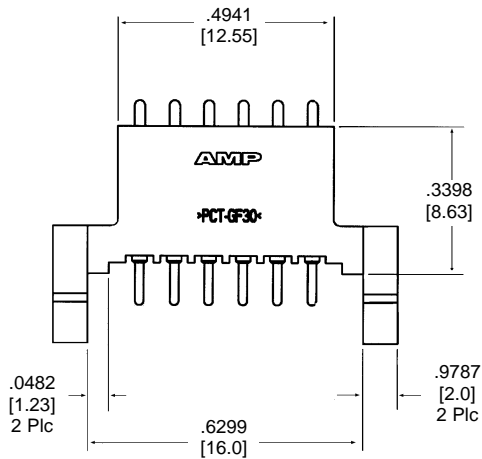
- Product Specification 108-1943

CONFIGURATIONS/PART NUMBERS

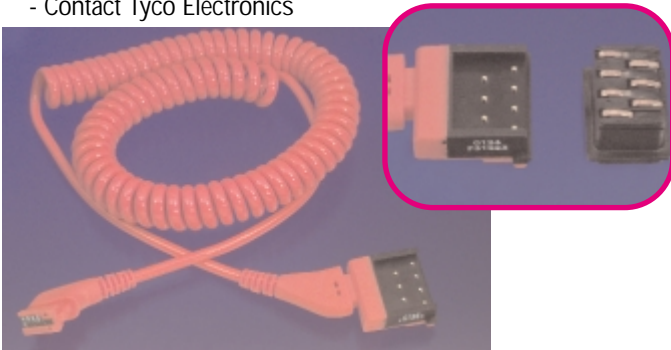
- **Low Profile Surface Mount**
 - 1375737-1 12 position
 - 1375737-2 16 position
 - 1375737-3 20 position
 - 1375737-4 24 position



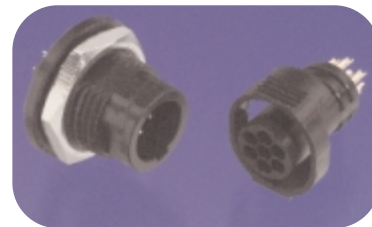
- **High Density Through-Hole**
 - Contact Tyco Electronics



- **Custom Spring Probe Cable Assemblies**
 - Contact Tyco Electronics



- **Micro Circular Plastic Connectors** — reference PIF #1309096
Contact Tyco Electronics



- **Threaded Coupling Metal-Shell Micro Circular Connectors** — reference PIF #1654950
Contact Tyco Electronics



PRODUCT OFFERING

- Standard low profile surface mount configuration available in 12 to 24 positions
- Custom connectors can be easily designed to suit the requirements of specific customer applications
- Cable assemblies can be readily configured in a variety of configurations