



The cost effective, lightweight,
modular interconnect solution.



PDS-239

WHAT IS IT?

- LMS is a connector system comprised of housing, modules, and contacts. Modules with various contact sizes and arrangements can be mixed within a housing for flexibility in wiring harness termination.
- LMS connectors can be used in rack and panel or cable to cable applications, and can be front or rear panel mounted. The optional jack screw and socket provide six position keying capability to prevent cross mating where multiple housing is used.
- The LMS product line offers a cost effective and flexible solution for wire harness interconnection.

LMS TECHNOLOGY BENEFITS

Cost Effective

The modular design and wide array of options result in fewer components required to meet interconnection needs.

Lightweight and Durable

Housings and module bodies are molded from a lightweight, U/L 94 V-0 rated flame retardant thermoplastic material.

Easy to Use

The modular design permits ease of circuit upgrading and/or maintenance.

Design Flexibility

Module options allow for a mix of passive and active devices within a single connector.

Bussing modules allow for a plurality of circuit network configurations without extra hardware.

Diode modules provide reverse voltage protection for avionic systems, sensors, and entertainment systems.

Relay modules add switching capability without the need for printed circuit boards and additional hardware.

Many Options Available

Four standard insert arrangements available that accept 8, 16, 20, or 22 gauge rear release contacts.

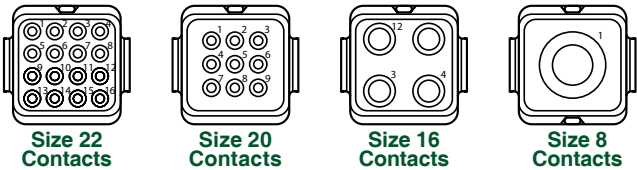


LMS Tool-less Splice Connector

A low cost interconnect that incorporates the LMS modules and contacts, offering push button release of modules.

MODULE CONTACT ARRANGEMENTS

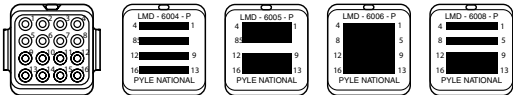
Standard Modules



MODULE CONFIGURATIONS

Bussing Modules

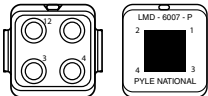
Bussing modules enable the common connection of 3 to 16 circuits within a single module. Custom bussing configurations can also be designed based on individual system requirements.



Size 22 Contacts



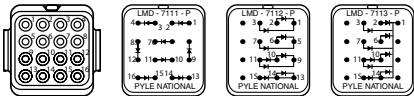
Size 20 Contacts



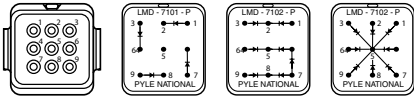
Size 16 Contacts

Diode Modules

Diode modules provide reverse voltage protection for sensitive avionics, sensors, and entertainment systems with integration of 1N4007 rectifier diodes. Additional diode choices, as well as integrated resistors, are available. Contact Amphenol Aerospace to discuss specific system requirements.



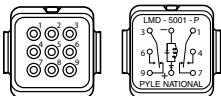
Size 22 Contacts



Size 20 Contacts

Relay Modules

Relay modules incorporate an industry standard miniature relay per MIL-R-39016 specification. These modules provide a low cost and convenient way to integrate a relay wherever one is required.



Size 20 Contacts

LMS PERFORMANCE CHARACTERISTICS

Temperature Rating	-55° C to +140° C (-67° F to + 284° F)
Insulation Resistance (min.)	5000 megohms initial; 1000 megohms after 96 hours humidity
Durability	250 cycles (mating and unmating)
Vibration	Maximum discontinuity of one microsecond when subjected to sinusoidal vibration of 10 to 2000 Hz at 15 gravity units
Physical Shock	Maximum discontinuity of one microsecond when subjected to 1/2 -sine-wave transient shock of 50 gravity units with pulse duration of 11 milliseconds
Module Insertion & Removal Force	5 lbs. maximum
Module Retention	70 lbs. minimum

ACCESSORIES



Two-piece Strain Relief with Cable Tie
For internal attachment to LMS six bay connector housings.

Panel Mount Bracket
For single bay tool-less splice housing.



CUSTOM DESIGNS

Amphenol Aerospace has the capabilities to create custom designs in a connector package that fits your application needs. Contact us to discuss specific system requirements.