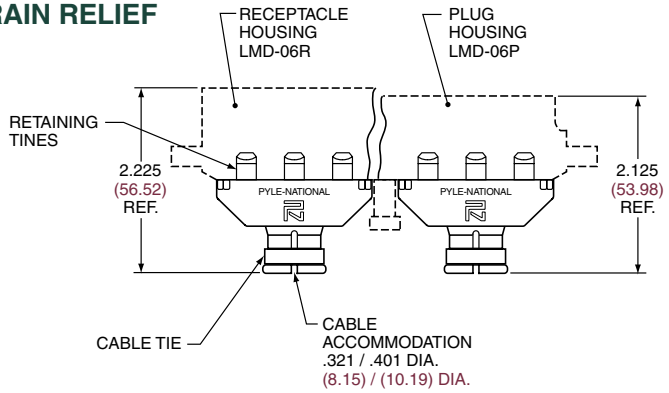
Strain Relief for Internal Attachment of Wiring

Part number: LMD-5300-10A

Two-piece strain relief with cable tie included, for internal attachment to LMD 6 bay connector housings. Molded in black thermoplastic material.

TWO-PIECE STRAIN RELIEF



LMD TOOLS

Crimping Tool for Size 22 Contacts

	Crimping Tool Part Number	Positioner	
		For Pin Contact	For Socket Contact
Amphenol/Pyle Number	TP-201401-H2	TP-201409	TP-201401-2-07
Military Number	M22520/2-01	–	M22520/2-07

Wire Size	Crimp Tool Selector Setting
28	No. 1
26	No. 2
24	No. 3
22	No. 4

Crimping Tool for Size 20 & 16 Contacts

	Crimping Tool Part Number	Turret Head
Amphenol/Pyle Number	TP-201354	TP-201355
Military Number	M22520/1-01	M22520/1-02

Contact Size	Wire Size	Crimp Tool Selector Setting
20	24	No. 2
	22	No. 3
	20	No. 4
16	20	No. 4
	18	No. 5
	16	No. 6

Crimping Tool for Size 8 Contacts

	Crimping Tool Part Number	Locator
Amphenol/Pyle Number	TP-201393	TP-201408
Military Number	–	–

For Size 8 Contacts		For Size 8 Contacts with #12 Wire Well	
Wire Size	Crimp Tool Selector Setting	Wire Size	Crimp Tool Selector Setting
10	No. 5	14	No.2
8	No.7	12	No.3

Contact Insertion/Removal Tools

Contact Size	Color	Amphenol/Pyle Part Number	Military Part Number
22	Green	10-538988-22D	MIL-I-81969/14-01
20	Red	10-538988-201	MIL-I-81969/14-02
16	Blue	10-538988-016	MIL-I-81969/14-03
8	Red	TP-201406	MIL-1-81969/29-02

LMD Module Removal Tool

Part number: TP-201397

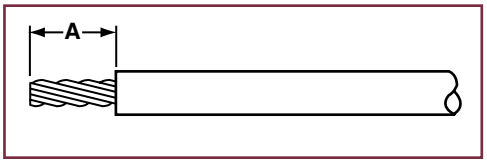
See photo on page 109 of module removal with this tool.

LMD tools can be purchased from Daniels Manufacturing Company.

CRIMPING, INSERTION & REMOVAL OF CONTACTS

Amphenol recommends the tools listed on the preceding page for use with LMD connectors, and also the following procedures for wire preparation, crimping of wire and contact insertion and removal.

Wire Preparation



Strip wires to dimension "A" shown in table at right. Avoid cutting or nicking wire strands.

Contact Size	Wire Size	Max. O. D. Insulation	Stripping Length Dimension "A"
22	20-24-26-28 AWG	.054	.156 – .125
20	20-22-24 AWG	.083	.185 – .155
16	16-18-20 AWG	.103	.260 – .230
8 (with #12 crimp)	12-14 AWG	.255	.395 – .365
8	8-10 AWG	.255	.395 – .365

Crimping Wire to Contacts

Follow steps 1-3 for proper contact crimping.

1. Fully insert wire into contact crimp pocket. Wire must be visible through wire inspection hole.

2. Insert contact into tool (use proper crimping tool as listed on preceding page). Crimp contact to wire. Tool will not open if contact is not fully crimped.
3. After crimping, wire should be visible through wire inspection hole.

Contact Insertion

Using proper insertion/removal tool as listed on previous page, slip wire into insertion end (colored end), placing crimp end of contact inside the slotted portion and contact shoulder against end of tool.

Align contact with the cavity at the rear face of the module. Carefully push the contact into the full depth of the cavity. Withdraw tool. A slight axial pull on the wire will confirm contact is locked in proper position.

Contact Removal

Snap the extraction end (white end) of the tool over the wire of the contact selected for removal. Carefully push the tool into the full depth of the contact cavity releasing the contact retaining collet. Hold the wire against the serrations on the tool, and withdraw the tool and the wired contact from the module.

MODULE INSERTION/REMOVAL & USE OF STRAIN RELIEF

Pin or socket modules, wired or unwired, can be inserted or intermixed in plug or receptacle housings. Select from standard module configurations shown on pages 103 & 104, or select the optional bussing, diode or relay modules offered, shown on pages 105 & 106. The next instructions illustrate the proper method of insertion and removal of modules within the LMD connector.

Module Insertion

Align the module with the proper cavity at the rear of the housing. The module keyway must be positioned to accept key in housing cavity. Carefully insert the module straight in to the cavity until fully seated and locked in place. A slight axial push on the front of the module or a pull on the cable bundle will confirm module is locked in proper position.

Module Removal

Select module to be removed and place the blades of removal tool into the removal slots at the front of the connector. Push the removal tool into the full depth of the cavity, releasing the module retention tines.

With the module removal tool fully inserted, push the extraction plunger to eject the module out of the rear of the connector.

Assembly of Internal Strain Relief

Strain reliefs, if required, may be assembled to plug or receptacle connectors which have a full complement of modules installed. The following is instruction for assembling the internal attachment strain relief, part number LMD-5300-10A (see page 107).

Tape wire bundle in area of cable clamp, and build up diameter to approx. 3/8 inches, if required. Align self-locking tines of the strain relief housing with the cavities adjacent to each module. Push the strain relief housing into place until the self-locking tines snap and lock strain relief into position. Assemble opposite half of strain relief housing to connector and tighten tie-strap to provide clamping force on the wire bundle.

Opening Strain Relief to Service Modules and Contacts

Internal attachment strain reliefs may be opened to provide module and/or contact accessibility. To service connectors, first cut and discard tie-strap on strain relief. Open strain relief halves approx. 45° each by bending along integral flexible hinge. After servicing, close strain relief halves and install and tighten new tie-strap.

To completely remove strain relief from the housing in order to provide module access; first remove tie-strap, open strain relief halves 45° each, then remove module, then remove strain relief.