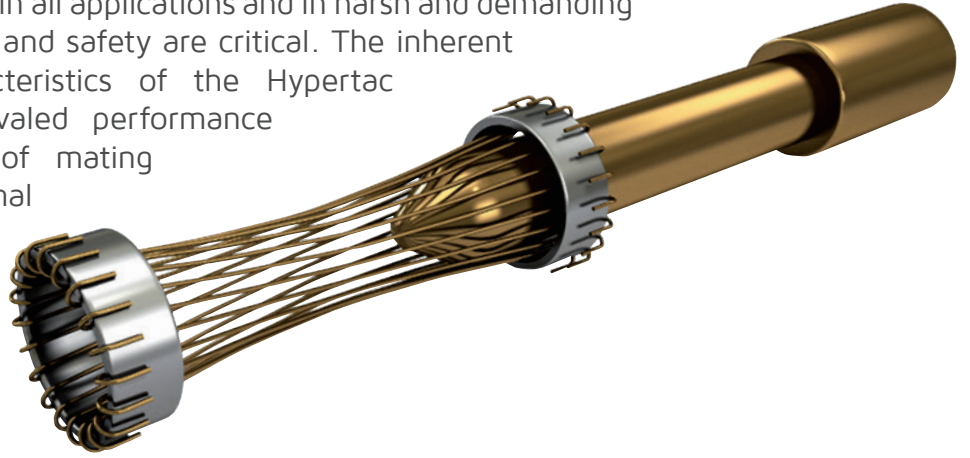


# L Series

Rugged High Density Modular Connectors



Smiths Interconnect offers an extensive range of superior contact technologies suitable for standard and custom solutions. Hypertac® (HYPERboloid conTACT) is the original superior performing hyperboloid contact technology designed for use in all applications and in harsh and demanding environments where high reliability and safety are critical. The inherent electrical and mechanical characteristics of the Hypertac hyperboloid contact ensures unrivaled performance in terms of reliability, number of mating cycles, low contact force and minimal contact resistance. The shape of the contact sleeve is formed by hyperbolically arranged contact wires, which align themselves elastically as contact lines around the pin, providing a number of linear contact paths.



## Features

### Low insertion/extraction forces

The angle of the socket wires allows tight control of the pin insertion and extraction forces. The spring wires are smoothly deflected to make line contact with the pin.

### Long contact life

The smooth and light wiping action minimizes wear on the contact surfaces. Contacts perform up to 100,000 insertion/extraction cycles with minimal degradation in performance.

### Lower contact resistance

The design provides a far greater contact area and the wiping action of the wires insures a clean and polished contact surface. Our contact technology has about half the resistance of conventional contact designs.

### Higher current ratings

The design parameters of the contact (e.g., the number, diameter and angle of the wires) may be modified for any requirement. The number of wires can be increased so the contact area is distributed over a larger surface. Thus, the high current carried by each wire because of its intimate line contact, can be multiplied many times.

### Immunity to shock & vibration

The low mass and resultant low inertia of the wires enable them to follow the most abrupt or extreme excursions of the pin without loss of contact. The contact area extends 360° around the pin and is uniform over its entire length. The 3 dimensional symmetry of the Hypertac contact design guarantees electrical continuity in all circumstances.

## Benefits

High density interconnect systems

Significant reductions in size and weight of sub-system designs. No additional hardware is required to overcome mating and un-mating forces.

### Low cost of ownership

The Hypertac contact technology will surpass most product requirements, thus eliminating the burden and cost of having to replace the connector or the entire subsystem.

### Low power consumption

The lower contact resistance of our technology results in a lower voltage drop across the connector reducing the power consumption and heat generation within the system.

### Maximum contact performance

The lower contact resistance of the Hypertac contact reduces heat build-up; therefore Hypertac contacts are able to handle far greater current in smaller contact assemblies without the detrimental effects of high temperature.

### Reliability under harsh environments

Harsh environmental conditions require connectors that will sustain their electrical integrity even under the most demanding conditions such as shock and vibration. The Hypertac contact provides unmatched stability in demanding environments when failure is not an option.

# Content

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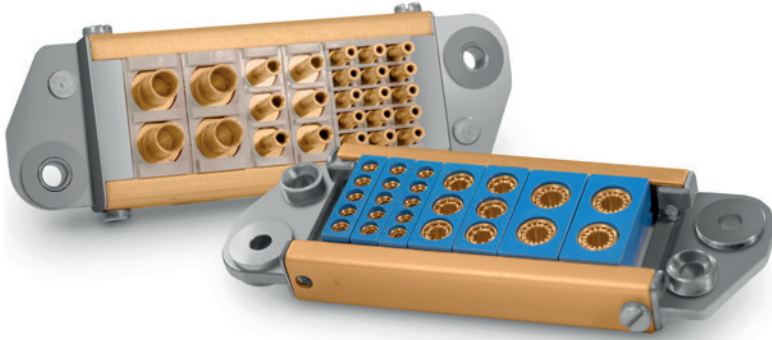
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# L Series Connectors



Smiths Interconnect's L Series rugged high density modular connectors employ a do-it-yourself system based on the principle of building blocks. The L Series system is composed of two elements: modules and frames. Modules of various styles and contact types, including signal, power and coaxial, can be combined into custom arrangements within a single connector frame. This allows the user to build a connector that addresses and fulfills their exact requirements with off-the-shelf components.

Ideal for rugged rack & panel applications, L Series connectors utilize the unparalleled performance of Hypertac® hyperboloid contact technology to provide high cycle life, low insertion/extraction forces and immunity to shock and vibration. This ensures smooth and easy mating with maximum performance in connectors with numerous contacts.

The contacts are mounted in small plastic blocks and are removable for easy assembly and repair. The frames which hold the modules in position range from basic, consisting of two side rails and end caps, to more complex, including Jackscrews, hoods and cable clamps. To conform to almost any combination of modules, all frames are available in numerous lengths. With the L Series, specially designed connectors can be purchased quickly and inexpensively, eliminating the need for custom tooling.

## Features and Benefits

### Low insertion / extraction forces

### High density interconnect systems

### Reliability in harsh environments

- Immune to shock and vibration
- Long contact life
- Minimal contact resistance
- Efficient power consumption

### High current ratings

### Low cost of ownership

### Design flexibility

- Metal back shells / plastic hoods
- Building block system composed of custom module combinations within a connector frame
- Signal, power and coaxial contact types available
- Fixed and snap-in contact versions
- Jackscrews available for half-turn quick disconnect
- Float mounting for blind mate

### Cable to chassis and rack & panel applications

## Fixed Contacts

Module	Contacts	Current Rating (A)
Type A	5	8
Type B	3	15
Type C	2	25
Type D	17	8
Type M	2	50

## Snap-in Crimp Contacts

Module	Contacts	Current Rating (A)
Type G	1	200
Type K	1	100
Type R	5	8
Type S	3	15
Type U	2	25 & 50
Type V	3	25
Type V	3 Coaxial	-
Type W	30	4

# How to Order



<b>1</b>	L Series [Fixed] <sup>1</sup>									
<b>2</b>	<b>Plug or Receptacle</b>	<table border="0"> <tr> <td><b>P</b> Plug</td> <td><b>E</b> Receptacle</td> </tr> </table>	<b>P</b> Plug	<b>E</b> Receptacle						
<b>P</b> Plug	<b>E</b> Receptacle									
<b>3</b>	<b>Frame Type</b>	<table border="0"> <tr> <td><b>A</b> Frame A</td> <td><b>B</b> Frame B</td> <td><b>B V</b> Frame JV</td> <td><b>H</b> Frame H</td> </tr> <tr> <td><b>J</b> Frame J</td> <td><b>J V</b> Frame JV</td> <td><b>M V</b> Frame MV</td> <td><b>M Y</b> Frame MY</td> </tr> </table>	<b>A</b> Frame A	<b>B</b> Frame B	<b>B V</b> Frame JV	<b>H</b> Frame H	<b>J</b> Frame J	<b>J V</b> Frame JV	<b>M V</b> Frame MV	<b>M Y</b> Frame MY
<b>A</b> Frame A	<b>B</b> Frame B	<b>B V</b> Frame JV	<b>H</b> Frame H							
<b>J</b> Frame J	<b>J V</b> Frame JV	<b>M V</b> Frame MV	<b>M Y</b> Frame MY							
<b>4</b>	<b>Frame Length</b>	<table border="0"> <tr> <td><b>4</b> to <b>20</b> Units<sup>2</sup></td> </tr> </table> <p>Frame length is computed by multiplying the module units by module quantity and totaling the results. Allow 2 additional units for frames with jackscrews (see BV, BY, JV, MV, and MY frames).</p>	<b>4</b> to <b>20</b> Units <sup>2</sup>							
<b>4</b> to <b>20</b> Units <sup>2</sup>										
<b>5</b>	<b>Module Quantity + Part Number</b>	<table border="0"> <tr> <td><b>4</b> + <b>AMST</b> / <b>2</b> + <b>CHT</b> /</td> </tr> </table> <p>Amount of same modules together within frame. (Drop "L" from beginning of module part number, see pages 16 thru 27 for all module part numbers). Example: 4AMST = 4 of the (L)AMST style modules. Separate each series of modules by "/". Modules will be positioned in frame according to sequence listed.</p>	<b>4</b> + <b>AMST</b> / <b>2</b> + <b>CHT</b> /							
<b>4</b> + <b>AMST</b> / <b>2</b> + <b>CHT</b> /										
<b>6</b>	<b>Plating</b>	<table border="0"> <tr> <td><b>T G</b></td> <td>10 μin Gold over Nickel (pins only)</td> </tr> <tr> <td><b>T H</b></td> <td>50 μin Gold over Nickel (pins only)</td> </tr> <tr> <td><b>T A H</b></td> <td>50 μin Gold over Nickel on socket wires, gold flash on termination (sockets only)</td> </tr> </table>	<b>T G</b>	10 μin Gold over Nickel (pins only)	<b>T H</b>	50 μin Gold over Nickel (pins only)	<b>T A H</b>	50 μin Gold over Nickel on socket wires, gold flash on termination (sockets only)		
<b>T G</b>	10 μin Gold over Nickel (pins only)									
<b>T H</b>	50 μin Gold over Nickel (pins only)									
<b>T A H</b>	50 μin Gold over Nickel on socket wires, gold flash on termination (sockets only)									
<b>7</b>	<b>Cable Clamp and Size(3)</b> (J & JV frames only)	<table border="0"> <tr> <td><b>SC10</b></td> <td>0.394 [10.00] Max, 0.210 [5.35] Min</td> <td><b>SC15</b></td> <td>0.590 [15.00] Max, 0.385 [9.75] Min</td> </tr> <tr> <td><b>SC20</b></td> <td>0.787 [20.00] Max, 0.605 [15.25] Min</td> <td><b>SC24</b></td> <td>0.945 [24.00] Max, 0.670 [17.00] Min</td> </tr> </table>	<b>SC10</b>	0.394 [10.00] Max, 0.210 [5.35] Min	<b>SC15</b>	0.590 [15.00] Max, 0.385 [9.75] Min	<b>SC20</b>	0.787 [20.00] Max, 0.605 [15.25] Min	<b>SC24</b>	0.945 [24.00] Max, 0.670 [17.00] Min
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<b>8</b>	<b>Cable Clamp Location</b> (J & JV Frames Only)	<table border="0"> <tr> <td><b>L</b> Left*</td> <td><b>R</b> Right*</td> <td><b>F</b> Front</td> <td><b>B</b> Back</td> </tr> </table> <p>Omit for default location. (J/JV: Top) *JV frame only</p>	<b>L</b> Left*	<b>R</b> Right*	<b>F</b> Front	<b>B</b> Back				
<b>L</b> Left*	<b>R</b> Right*	<b>F</b> Front	<b>B</b> Back							

**Notes**

1. If part number exceeds 24 characters, a special abbreviated part number will be assigned at the time of order.
2. Frames MV and MY available in 12, 15, 20 and 22 units only.
3. May be some limitations on cable clamp size in connectors of shorter length.

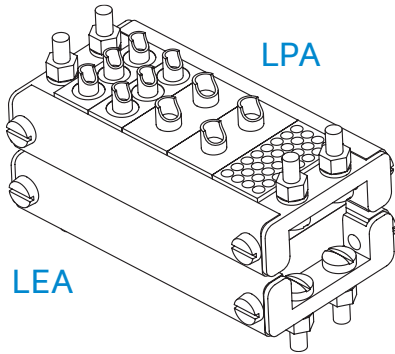
Dimensions are in inches [mm]

# Frames

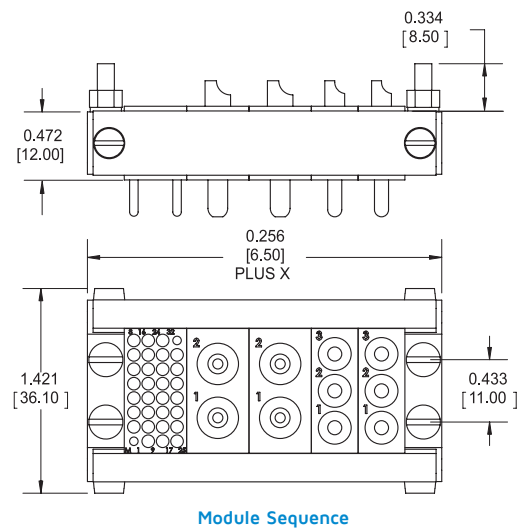
## Dimensions and Specifications

### Frame A

#### Simple Rack & Panel

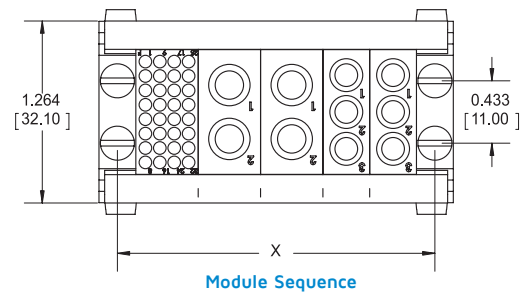


LPA  
Plug

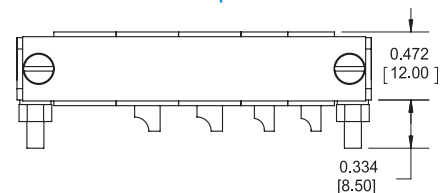


Module Sequence

LEA  
Receptacle



Module Sequence



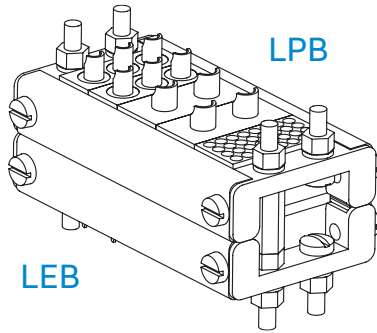
Units	X	Plug	Receptacle
4	1.122 [28.50]	LPA4	LEA4
5	1.338 [34.00]	LPA5	LEA5
6	1.555 [39.50]	LPA6	LEA6
7	1.771 [45.00]	LPA7	LEA7
8	1.988 [50.50]	LPA8	LEA8
9	2.205 [56.00]	LPA9	LEA9
10	2.421 [61.50]	LPA10	LEA10
11	2.638 [67.00]	LPA11	LEA11
12	2.854 [72.50]	LPA12	LEA12
13	3.070 [78.00]	LPA13	LEA13
14	3.287 [83.50]	LPA14	LEA14
15	3.504 [89.00]	LPA15	LEA15
16	3.720 [94.50]	LPA16	LEA16
17	3.936 [100.00]	LPA17	LEA17
18	4.153 [105.50]	LPA18	LEA18
19	4.370 [111.00]	LPA19	LEA19
20	4.586 [116.50]	LPA20	LEA20

#### Weight (Excluding Modules)

A Plug	1.0 oz. at 4 units 1.9 oz. at 20 units
A Receptacle	1.0 oz. at 4 units 1.9 oz. at 20 units

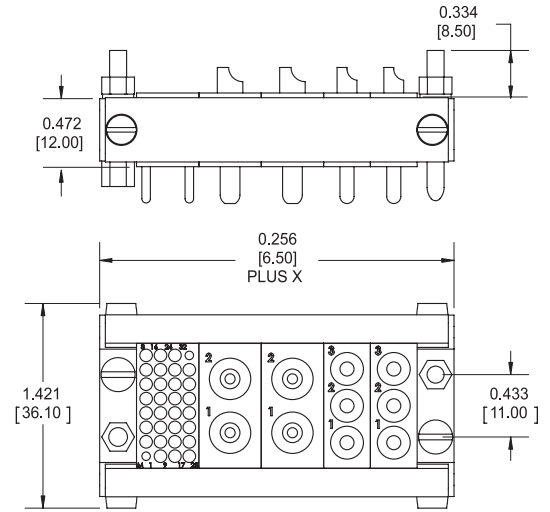
# Frame B

## Simple Rack & Panel with Guides



### LPB

#### Plug

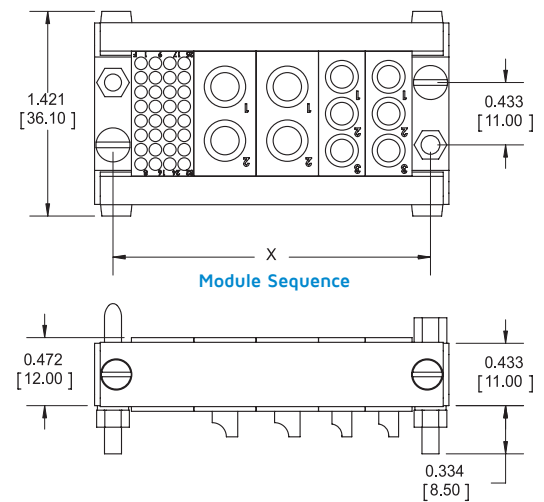


Module Sequence

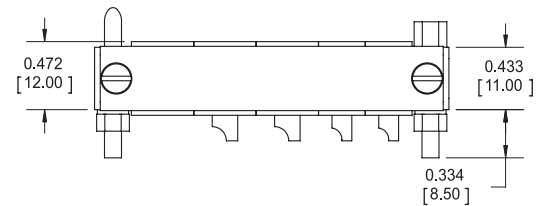
Units	X	Plug	Receptacle
4	1.122 [28.50]	LPB4	LEB4
5	1.338 [34.00]	LPB5	LEB5
6	1.555 [39.50]	LPB6	LEB6
7	1.771 [45.00]	LPB7	LEB7
8	1.988 [50.50]	LPB8	LEB8
9	2.205 [56.00]	LPB9	LEB9
10	2.421 [61.50]	LPB10	LEB10
11	2.638 [67.00]	LPB11	LEB11
12	2.854 [72.50]	LPB12	LEB12
13	3.070 [78.00]	LPB13	LEB13
14	3.287 [83.50]	LPB14	LEB14
15	3.504 [89.00]	LPB15	LEB15
16	3.720 [94.50]	LPB16	LEB16
17	3.936 [100.00]	LPB17	LEB17
18	4.153 [105.50]	LPB18	LEB18
19	4.370 [111.00]	LPB19	LEB19
20	4.586 [116.50]	LPB20	LEB20

### LEBV

#### Receptacle



Module Sequence



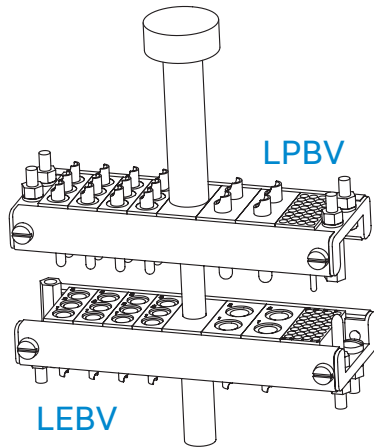
### Weight (Excluding Modules)

B Plug	1.0 oz. at 4 units 1.9 oz. at 20 units
B Receptacle	1.0 oz. at 4 units 1.9 oz. at 20 units

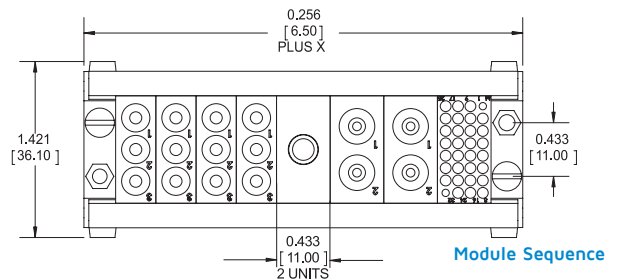
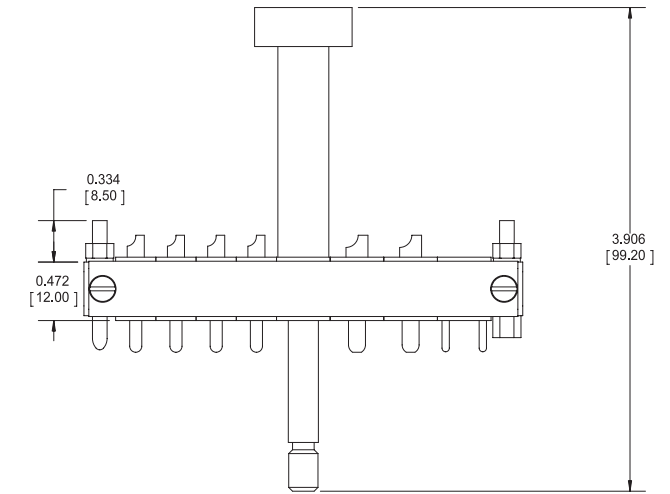
Dimensions are in inches [mm]

# Frame BV

## Rack & Panel with Guides & Jackscrew

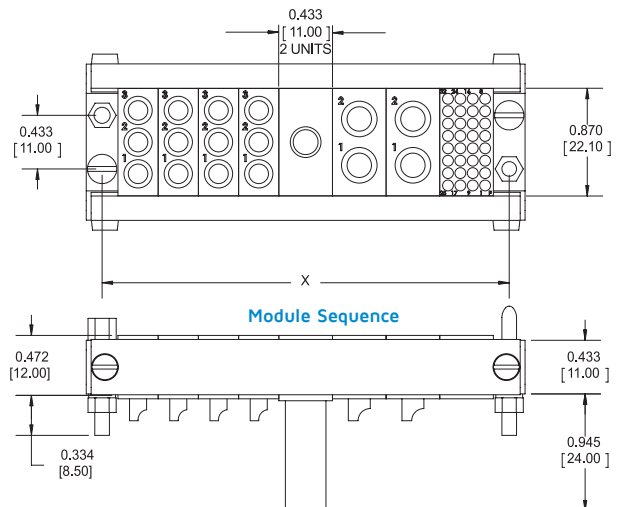


LPBV  
Plug



Units	X	Plug	Receptacle
4	1.122 [28.50]	LPBV4	LEBV4
5	1.338 [34.00]	LPBV5	LEBV5
6	1.555 [39.50]	LPBV6	LEBV6
7	1.771 [45.00]	LPBV7	LEBV7
8	1.988 [50.50]	LPBV8	LEBV8
9	2.205 [56.00]	LPBV9	LEBV9
10	2.421 [61.50]	LPBV10	LEBV10
11	2.638 [67.00]	LPBV11	LEBV11
12	2.854 [72.50]	LPBV12	LEBV12
13	3.070 [78.00]	LPBV13	LEBV13
14	3.287 [83.50]	LPBV14	LEBV14
15	3.504 [89.00]	LPBV15	LEBV15
16	3.720 [94.50]	LPBV16	LEBV16
17	3.936 [100.00]	LPBV17	LEBV17
18	4.153 [105.50]	LPBV18	LEBV18
19	4.370 [111.00]	LPBV19	LEBV19
20	4.586 [116.50]	LPBV20	LEBV20

LEBV  
Receptacle



Weight (Excluding Modules)	
BV Plug	4.7 oz. at 4 units 5.6 oz. at 20 units
BV Receptacle	2.5 oz. at 4 units 3.4 oz. at 20 units

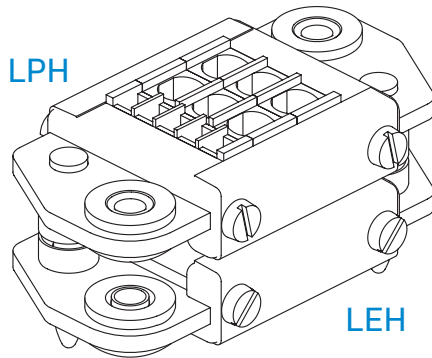


# Frame H

## Float Mount Rack & Panel with Guides

- Float mounting 0.049 [1.25] 1 max. from center

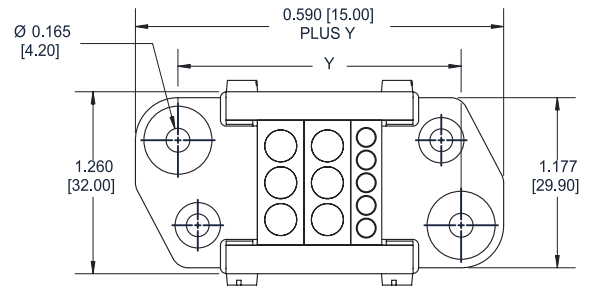
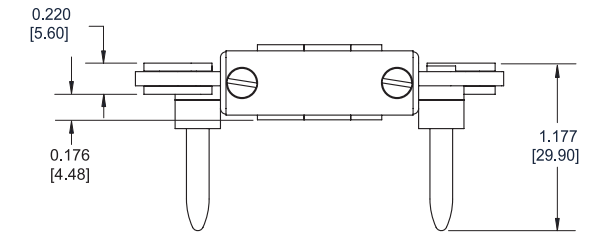
 File No.: UL E102195



Units	Y	Plug	Receptacle
4	1.969 [50.00]	LPH4	LEH4
5	2.185 [55.50]	LPH5	LEH5
6	2.402 [61.00]	LPH6	LEH6
7	2.618 [66.50]	LPH7	LEH7
8	2.835 [72.00]	LPH8	LEH8
9	3.051 [77.50]	LPH9	LEH9
10	3.268 [83.00]	LPH10	LEH10
11	3.484 [88.50]	LPH11	LEH11
12	3.701 [94.00]	LPH12	LEH12
13	3.917 [99.50]	LPH13	LEH13
14	4.134 [105.00]	LPH14	LEH14
15	4.350 [110.50]	LPH15	LEH15
16	4.567 [116.00]	LPH16	LEH16
17	4.784 [121.50]	LPH17	LEH17
18	5.00 [127.00]	LPH18	LEH18
19	5.217 [132.50]	LPH19	LEH19
20	5.433 [138.00]	LPH20	LEH20
21	5.650 [143.50]	LPH21	LEH21
22	5.866 [149.00]	LPH22	LEH22

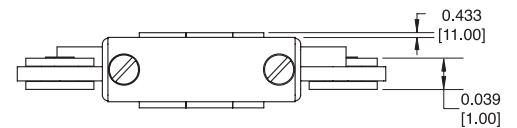
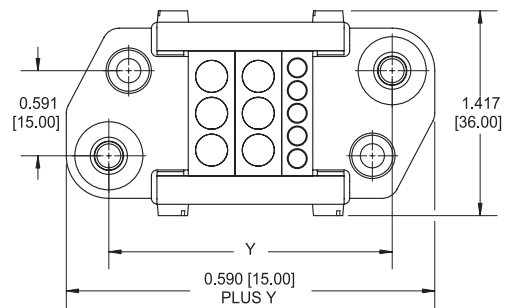
Weight (Excluding Modules)	
H Plug	1.9 oz. at 4 units 2.8 oz. at 20 units
H Receptacle	1.6 oz. at 4 units 2.5 oz. at 20 units

LPH Plug



Module Sequence

LEH Receptacle



Module Sequence

### Notes

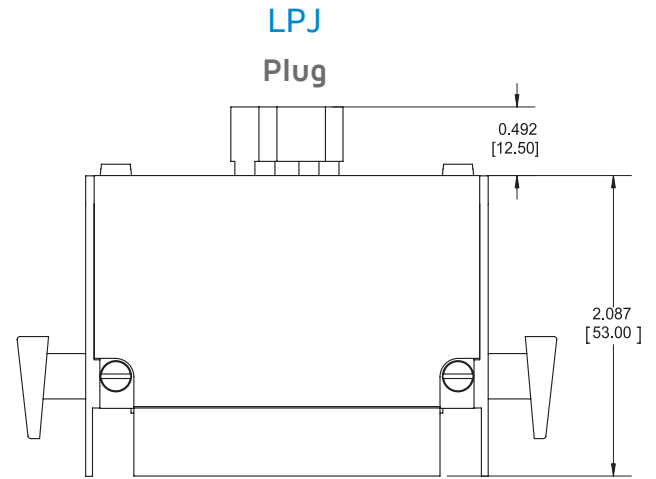
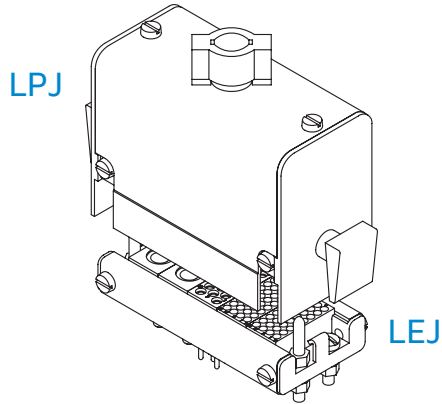
- Available option: 0.125 in. float (use modification 398).

Dimensions are in inches [mm]

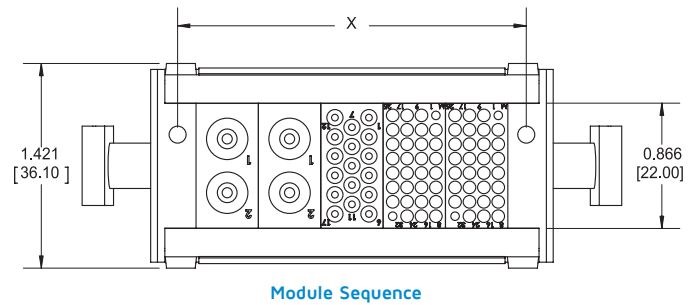
## Frame J

### Latching Metal Backshell

- Hooded connector with round cable clamp
- Alternate cable clamp locations available

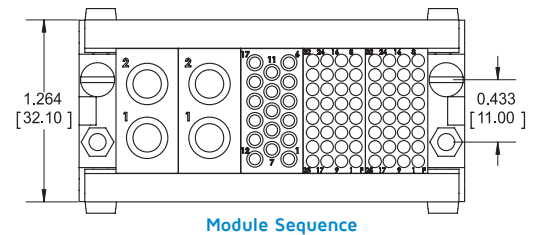


Units	X	Plug*	Receptacle
4	1.122 [28.50]	LPJ4 SCxx	LEJ4
5	1.338 [34.00]	LPJ5 SCxx	LEJ5
6	1.555 [39.50]	LPJ6 SCxx	LEJ6
7	1.771 [45.00]	LPJ7 SCxx	LEJ7
8	1.988 [50.50]	LPJ8 SCxx	LEJ8
9	2.205 [56.00]	LPJ9 SCxx	LEJ9
10	2.421 [61.50]	LPJ10 SCxx	LEJ10
11	2.638 [67.00]	LPJ11 SCxx	LEJ11
12	2.854 [72.50]	LPJ12 SCxx	LEJ12
13	3.070 [78.00]	LPJ13 SCxx	LEJ13
14	3.287 [83.50]	LPJ14 SCxx	LEJ14
15	3.504 [89.00]	LPJ15 SCxx	LEJ15
16	3.720 [94.50]	LPJ16 SCxx	LEJ16
17	3.936 [100.00]	LPJ17 SCxx	LEJ17
18	4.153 [105.50]	LPJ18 SCxx	LEJ18
19	4.370 [111.00]	LPJ19 SCxx	LEJ19
20	4.586 [116.50]	LPJ20 SCxx	LEJ20

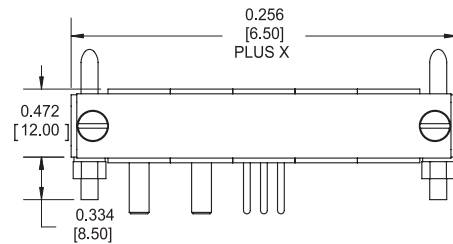


Module Sequence

### LEJ Receptacle



Module Sequence



### Weight (Excluding Modules)

Plug	3.5 oz. at 4 units 5.5 oz. at 20 units
Receptacle	1.2 oz. at 4 units 2.1 oz. at 20 units

### Notes:

- \* SCxx: SC10, SC15, SC20, SC24 (cable clamp size: 10, 15, 20, 24mm)  
There may be some limitations on cable size and/or location in shorter length connectors.
1. Plugs with flat cable clamp available. Replace J in part number with K and cable clamp callout to SC33 [33mm] or SC50 [50mm].
  2. Plugs without cable clamp available. Replace J in part number with R and remove SC cable clamp callout.

Dimensions are in inches [mm]

# Frame JV

## Jackscrew with Metal Backshell

- Hooded connector with round cable clamp
- Side and double openings also available by special order Jackscrew extraction

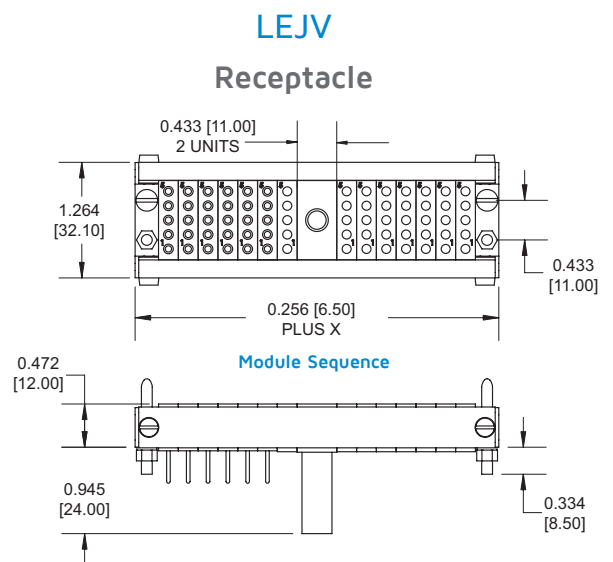
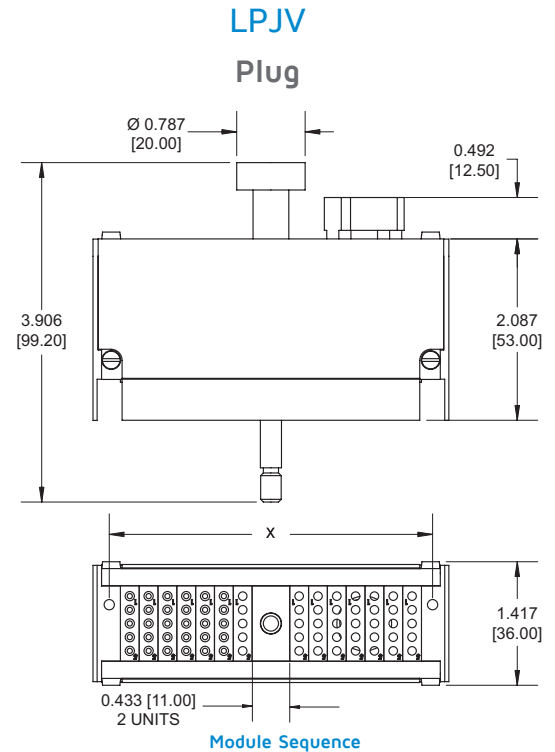
Units	X	Plug*	Receptacle
4	1.122 [28.50]	LPJV4 SCxx	LEJV4
5	1.338 [34.00]	LPJV5 SCxx	LEJV5
6	1.555 [39.50]	LPJV6 SCxx	LEJV6
7	1.771 [45.00]	LPJV7 SCxx	LEJV7
8	1.988 [50.50]	LPJV8 SCxx	LEJV8
9	2.205 [56.00]	LPJV9 SCxx	LEJV9
10	2.421 [61.50]	LPJV10 SCxx	LEJV10
11	2.638 [67.00]	LPJV11 SCxx	LEJV11
12	2.854 [72.50]	LPJV12 SCxx	LEJV12
13	3.070 [78.00]	LPJV13 SCxx	LEJV13
14	3.287 [83.50]	LPJV14 SCxx	LEJV14
15	3.504 [89.00]	LPJV15 SCxx	LEJV15
16	3.720 [94.50]	LPJV16 SCxx	LEJV16
17	3.936 [100.00]	LPJV17 SCxx	LEJV17
18	4.153 [105.50]	LPJV18 SCxx	LEJV18
19	4.370 [111.00]	LPJV19 SCxx	LEJV19
20	4.586 [116.50]	LPJV20 SCxx	LEJV20

Weight (Excluding Modules)	
Plug	1.0 oz. at 4 units 1.9 oz. at 20 units
Receptacle	1.0 oz. at 4 units 1.9 oz. at 20 units

**Notes:**

- \* SCxx: SC10, SC15, SC20, SC24 (cable clamp size: 10, 15, 20, 24mm)  
There may be some limitations on cable size and/or location in shorter length connectors
- 1. Plugs with flat cable clamp available. Replace J in part number with K and cable clamp callout to SC33 [33mm] or SC50 [50mm].
- 2. Plugs without cable clamp available. Replace J in part number with R and remove SC cable clamp callout.

Dimensions are in inches [mm]



# Frame MV

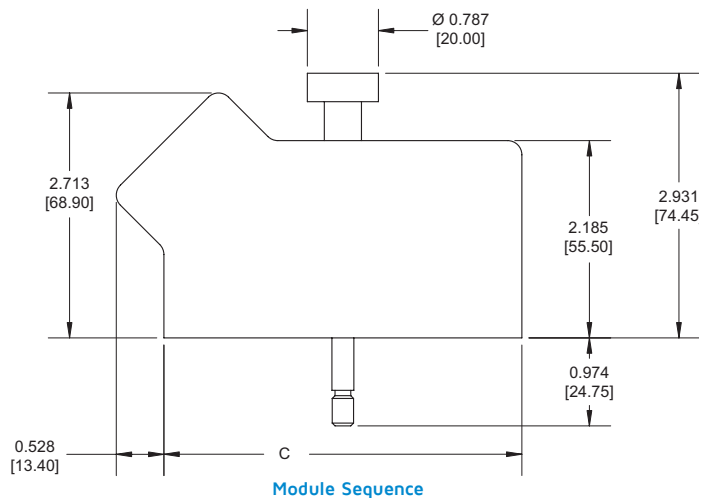
## Jackscrew with Plastic Backshells

- Standard multi-turn jackscrew
- Up to 300 signal contacts (10 W modules in 22 unit frame)
- Adjustable cable clamp: 0.425 to 1.26 [11.50 to 32.00]
- > 5,000 mating cycles
- 36 keying combinations
- Rugged black polycarbonate backshell
- Built-in pin protection
- 12, 15, 20 and 22 unit lengths

Units <sup>(1)</sup>	A	B	C	Plug	Receptacle
12	2.598 [66.00]	3.11 [79.00]	3.315 [84.20]	LPMV12	LEMV12
15	3.248 [82.50]	3.76 [95.50]	3.965 [100.70]	LPMV15	LEMV15
20	4.331 [110.00]	4.843 [123.00]	5.047 [128.20]	LPMV20	LEMV20
22	4.764 [121.00]	5.276 [134.00]	5.480 [139.20]	LPMV22	LEMV22

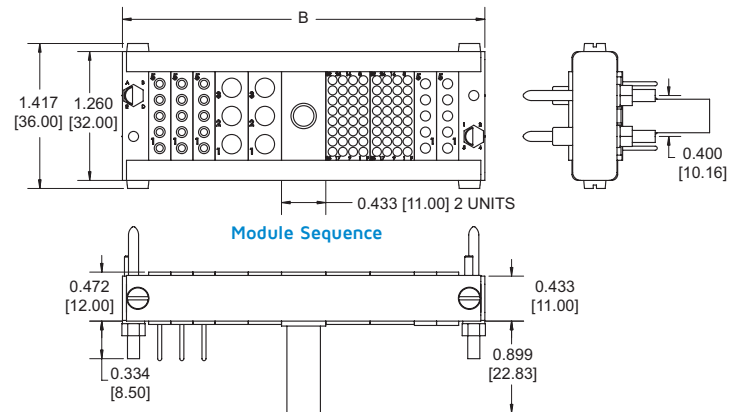
### LPMV

#### Multi-Turn Plug



### LEMV

#### Multi-Turn Receptacle



### Notes

1. Allow 2 additional units for frames with Jackscrews

# Frame MY

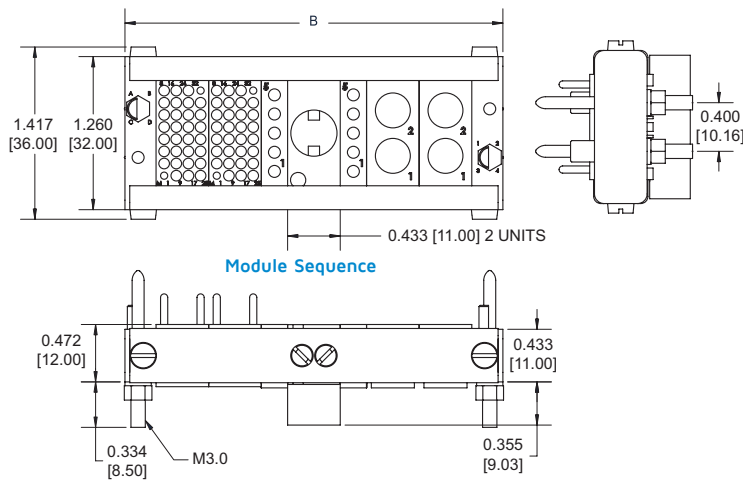
## Half-Turn Jackscrew with Plastic Backshells

- 180° quick-turn
- Up to 300 signal contacts (10 W modules in 22 unit frame)
- Adjustable cable clamp: 0.425 [11.50] to 1.26 [32.00]
- > 5,000 mating cycles
- 36 keying combinations
- Rugged black polycarbonate backshell
- Built-in pin protection
- 12, 15, 20 and 22 unit lengths

Units <sup>(2)</sup>	B	C	Plug	Receptacle
12	3.11 [79.00]	3.312 [84.20]	LPMY12	LEMY12
15	3.76 [95.50]	3.965 [100.70]	LPMY15	LEMY15
20	4.843 [123.00]	5.047 [128.20]	LPMY20	LEMY20
22	5.276 [134.00]	5.480 [139.20]	LPMY22	LEMY22

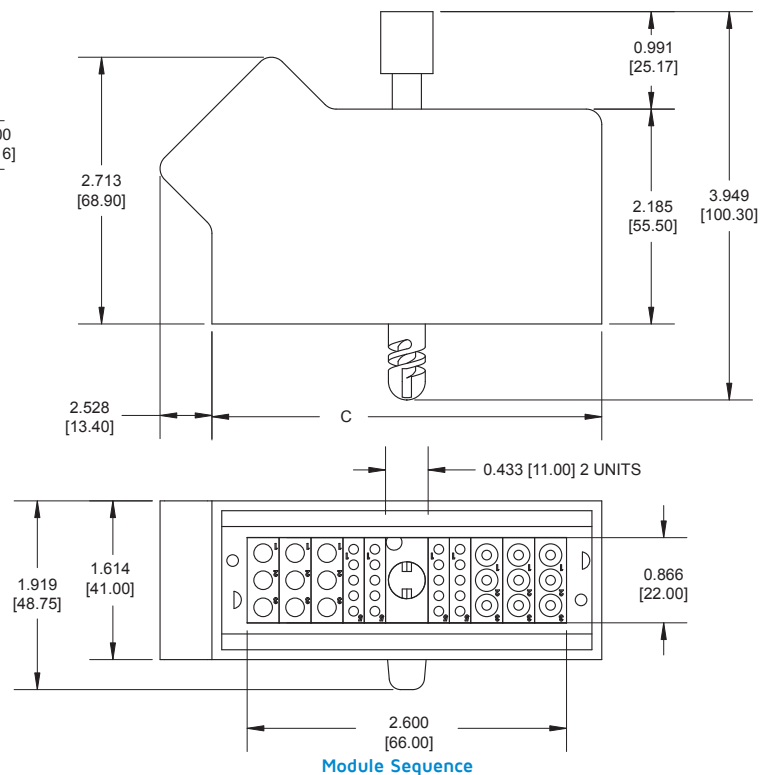
### LEMY

#### Half-Turn Receptacle



### LPMY

#### Half-Turn Plug



### Notes

1. Half-turn plug frame without hood available as LPMMY
2. Allow 2 additional units for frames with Jackscrews

Dimensions are in inches [mm]

# Modules

## Specifications and Ordering Information

### Technical Characteristics

	A	B	C	D	G	K	M	R	S	U	V <sup>(1)</sup>	W
<b>Current Rating (A)</b>	8 A	15 A	25 A	8 A	200 A	100 A	50 A	8 A	15 A	25/50 A	25 A(2)	4 A
<b>Contact Resistance (mΩ)</b>	<2.5	<1.0	<0.8	<3.0	<0.2	<0.35	<0.4	<2.5	< 1.5	< 0.8	< 1.5	< 5.0
<b>Extraction Force (oz.) (per contact)</b>	1.0 to 5.0	3.0 to 25.0	4.0 to 32.0	1.0 to 6.5	80.0 to 160.0	15.0 to 90.0	4.0 to 40.0	1.0 to 5.0	3.0 to 28.3	4.0 to 35.0	3.0 to 7.0	0.5 to 2.0
<b>Contact Life Cycle</b>	> 100,000											
<b>Breakdown Voltage (V RMS)</b>	>2,000	>1,600	>3,000	>1,800	>1,500	>1,500	>3,000	>1,600	>2,000	>2,800	>1,600	>2,200
<b>DWV (V RMS)</b>	1,500	1,200	2,250	1,350	1,100	1,100	2,250	1,200	1,500	2,100	1,200	1,650
<b>Insulation Resistance (MΩ at 500 VDC)</b>	106						104					109
<b>Temperature Rating (°C)</b>	-55 to 125				—	—	-55 to 125			-55 to 105	-55 to 125	

### Approximate Weight

<b>Male Pins (oz.)</b>	0.2	0.35	0.44	0.31	—	—	0.44	0.22	0.23	0.45	0.32	—
<b>Female Sockets (oz.)</b>	0.15	0.25	0.31	0.45	—	—	0.31	0.16	0.35	0.29	0.34	—

### Materials

<b>Pin</b>	Brass		Copper		Brass							
<b>Socket</b>	Beryllium copper wires and brass body											
<b>Insulator</b>	Diallyl-phthalate			Polyphthalamide		Diallyl-phthalate	Nylon				Polyethylene sulfide	

### Contact Plating

<b>Pin</b> (μin gold (min) over nickel)	10/50			30		10/50						
<b>Socket</b>	Mating surface: 50 μin gold (min) over nickel Termination: gold flash over nickel											

### Notes

1. Module V Coax version available, see pg. 23
2. 25 A (free air), 17 A (bundled)

## Module Accessories

	Crimp Tool	Crimp Die Set	Crimp Positioner	Insertion Tool	Extraction Tool	Mounting Bracket
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### Module R

Style 1	AF8	—	TP1650	S0150.01	S0150.01	—
Style 2			TBA			
Style 3			TP592			
Style 4			TP1128			
Style 5			TP613			

### Module S

All Styles	M309	—	TP1179	S0250.01	S0250.01	—
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### Module U

Style 1	T1264	—	TP1232	S0350.01	S0350.01	—
Style 2						
Style 3						
Style 4	T712	T761	WA23-030L (female YSK contact) WA23-025 (male YPN contact)			
Style 5	T1264		T1559			

### Module W

All Styles	AFM8	—	K547 (Style R only) K547-2 (Style RR only)	T1866	S/DEM1.0060	—
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### Module F & V Power Contacts

All Styles	M309	—	T1981	—	T1982	—
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### Module F & V Coax Contacts

Center Conductor	AFM8	—	T1957	—	T1982	—
Outer Conductor	HX3	T1958 or T2019 for RG316DB	—			

### Module G

All Styles	T1501	—	T1536	—	T1500	T1551
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### Module K

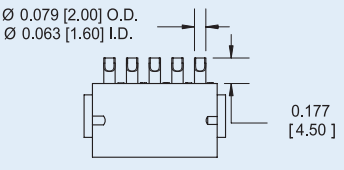
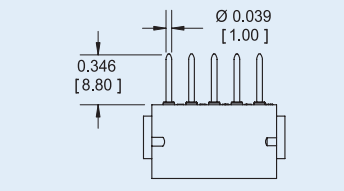
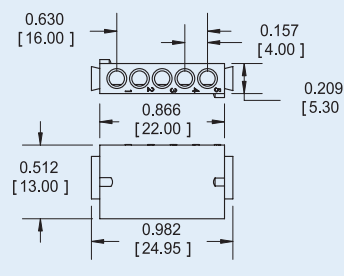
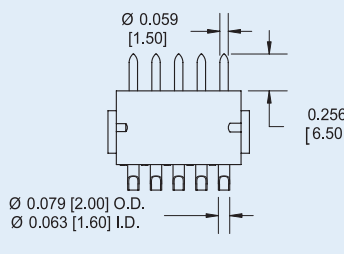
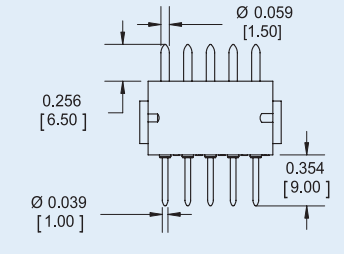
All Styles	T1501	—	T1535	—	T1507	T1551
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# Module A

## 8 A Contact Rating

- 1 unit, 5 Hypertac® hyperboloid fixed contacts,  $\varnothing 0.059$  [1.50]  
Also mates with R crimp modules

 File No.: UL E102195

Module	Gender	Termination	Contact Mating Surface Plating	Part Number
 <p><b>LAF</b></p>	Female	Solder Cup Up to 16 AWG	50 $\mu$ m gold	LAFSTAH
 <p><b>LAF</b></p>	Female	Straight Dip Solder	50 $\mu$ m gold	LAFDTAH
 <p><b>LAHT</b></p>	Empty Block	—	—	LAHT (ZLM005-001)
 <p><b>LAM</b></p>	Male	Solder Cup Up to 16 AWG	10 $\mu$ m gold	LAMST
			50 $\mu$ m gold	LAMSTHw
 <p><b>LAM</b></p>	Male	Straight Dip Solder	10 $\mu$ m gold	LAMDT
			50 $\mu$ m gold	LAMDTH

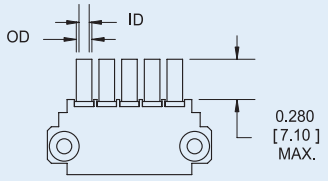
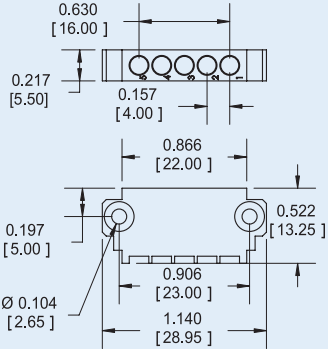
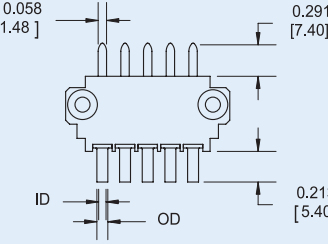


# Module R

## 8 A Contact Rating

- 1 unit, 5 Hypertac® hyperboloid "Snap-In" crimp contacts, Ø0.059 [1.50]
  - Can be mounted by itself or in a frame
- Also mates with A modules

 File No.: UL E102195

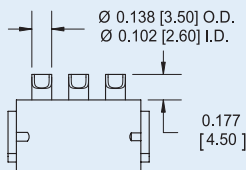
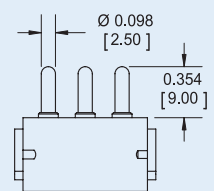
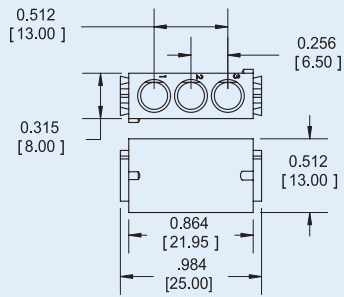
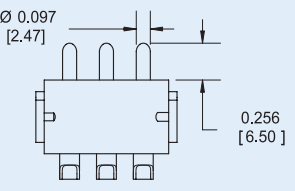
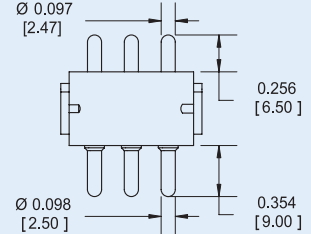
Module	Gender	Wire Gauge	I.D.	O.D.	Contact Mating Surface Plating	Part Number	Replacement Contacts
 <p><b>LRF</b></p>	Female	18-22	0.057 [1.45]	0.104 [2.65]	50 µin gold	LRF1	YSK015-013AH
		22-26	0.035 [0.90]	0.051 [1.30]	50 µin gold	LRF2	YSK015-142AH
		16	0.071 [1.80]	0.108 [2.75]	50 µin gold	LRF3	YSK015-014AH
		14	0.079 [2.00]	0.122 [3.10]	50 µin gold	LRF4	YSK015-045AH
		28	0.022 [0.56]	0.076 [1.93]	50 µin gold	LRF5	YSK015-009AH
 <p><b>LRH</b></p>	Empty Block	—	—	—	—	LRH (ZLR005-001)	—
 <p><b>LRM</b></p>	Male	18-22	0.057 [1.45]	0.104 [2.65]	10 µin gold	LRM1	YPN015-009RG
					50 µin gold	LRM1H	YPN015-009RH
		22-26	0.035 [0.90]	0.051 [1.30]	10 µin gold	LRM2	YPN015-129G
					50 µin gold	LRM2H	YPN015-129H
		16	0.071 [1.80]	0.108 [2.75]	10 µin gold	LRM3	YPN015-010G
					50 µin gold	LRM3H	YPN015-010H
		14	0.079 [2.00]	0.122 [3.10]	10 µin gold	LRM4	YPN015-033RG
					50 µin gold	LRM4H	YPN015-033RH
		28	0.022 [0.56]	0.076 [1.93]	10 µin gold	LRM5	YPN015-004RG
					50 µin gold	LRM5H	YPN015-004RH

## Module B

## 15 A Contact Rating

- 1.5 units, 3 Hypertac® hyperboloid fixed contacts, Ø0.098 [2.50]
- Also mates with S crimp modules

 File No.: UL E102195

Module	Gender	Termination	Contact Mating Surface Plating	Part Number
 <p><b>LBF</b></p>	Female	Solder Cup Up to 12 AWG	50 µin gold	LBFSTAH
 <p><b>LBF</b></p>	Female	Straight Dip Solder	50 µin gold	LBFDTAH
 <p><b>LBHT</b></p>	Empty Block	—	—	LBHT (ZLM003-001)
 <p><b>LBM</b></p>	Male	Solder Cup Up to 12 AWG	10 µin gold	LBMST
			50 µin gold	LBMSTH
 <p><b>LBM</b></p>	Male	Straight Dip Solder	10 µin gold	LBMST
			50 µin gold	LBMSTH

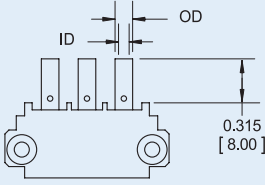
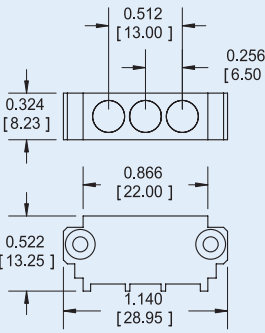
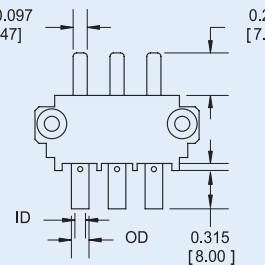
Dimensions are in inches [mm]

# Module S

## 15 A Contact Rating

- 1.5 units, 3 Hypertac® hyperboloid "Snap-In" crimp contacts, Ø0.098 [2.50]
- Can be mounted by itself or in a frame  
Also mates with B modules

 File No.: UL E102195

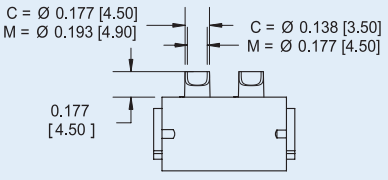
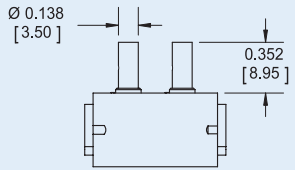
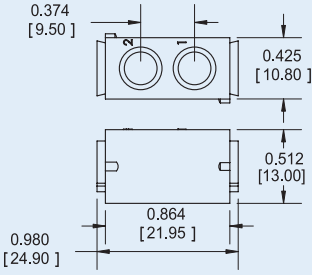
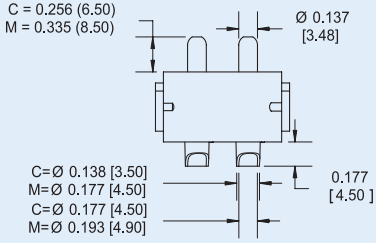
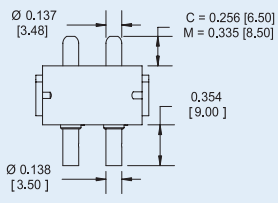
Module	Gender	Wire Gauge	I.D.	O.D.	Contact Mating Surface Plating	Part Number	Replacement Contacts
 <p><b>LSF</b></p>	Female	16-22	0.059 [1.50]	0.122 [3.10]	50 µin gold	LSF1	YSK025-003AH
		14-16	0.077 [1.95]	0.122 [3.10]	50 µin gold	LSF2	YSK025-004AH
		12	0.100 [2.54]	0.150 [3.81]	50 µin gold	LSF4	YSK025-013AH
 <p><b>LSH</b></p>	Empty Block	—	—	—	—	LSH (ZLS003-002)	—
 <p><b>LSM</b></p>	Male	16-22	0.059 [1.50]	0.122 [3.10]	10 µin gold	LSM1	YPN025-002G
		16-22			50 µin gold	LSM1H	YPN025-002H
		14-16	0.077 [1.95]	0.122 [3.10]	10 µin gold	LSM2	YPN025-003G
		14-16			50 µin gold	LSM2H	YPN025-003H
		12	0.100 [2.54]	0.150 [3.81]	10 µin gold	LSM4	YPN025-011RG
		12			50 µin gold	LSM4H	YPN025-011RH

# Modules C & M

## 25 or 50 A Contact Rating

- 2 units, 2 Hypertac® hyperboloid fixed contacts,  $\varnothing 0.138$  [3.50]
- Also mates with U crimp modules

 File No.: UL E102195

Module	Gender	Termination	Contact Mating Surface Plating	Current Rating	Part Number
 <p><b>LCF/LMF</b></p>	Female	Solder Cup Up to 10 AWG	50 $\mu$ m gold	25 A	LCFSTAH
		Solder Cup Up to 8 AWG		50 A	LMFSTAH
 <p><b>LCF/LMF</b></p>	Female	Straight Dip Solder	50 $\mu$ m gold	25 A	LCFDTAH
				50 A	LMFDTAH
 <p><b>LCHT</b></p>	Empty Block	—	—	—	LCHT (ZLMO02-001)
 <p><b>LCM/LMM</b></p>	Male	Solder Cup Up to 10 AWG	10 $\mu$ m gold	25 A	LCMST
			50 $\mu$ m gold		LCMSTH
		Solder Cup Up to 8 AWG	10 $\mu$ m gold	50 A	LMMST
			50 $\mu$ m gold		LMMSTH
 <p><b>LCM/LMM</b></p>	Male	Straight Dip Solder	10 $\mu$ m gold	25 A	LCMDT
			50 $\mu$ m gold		LCMDTH
			10 $\mu$ m gold	50 A	LMMDT
			50 $\mu$ m gold		LMMDTH

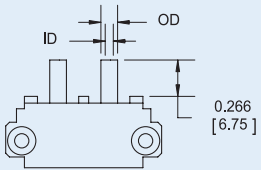
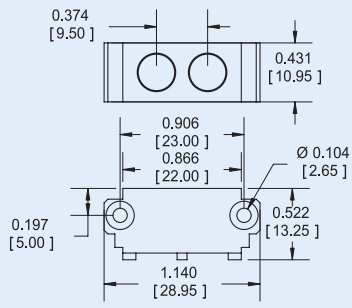
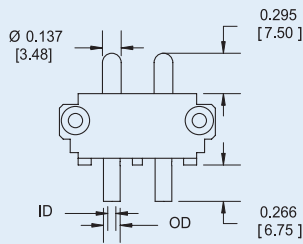
Dimensions are in inches [mm]

# Module U

## 25 or 50 A Contact Rating

- 2 units, 2 Hypertac® hyperboloid “Snap-In” crimp contacts, Ø0.138 [3.50]
- Also mates with C & M crimp modules

 File No.: UL E102195

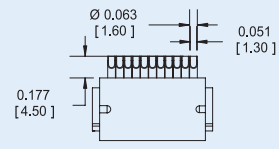
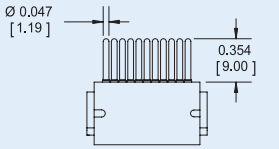
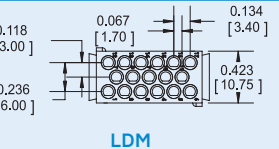
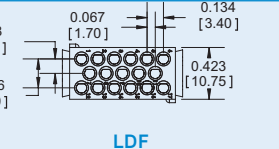
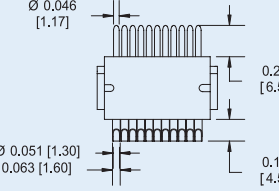
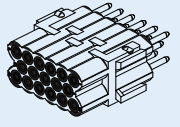
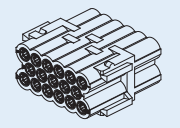
Module	Gender	Wire Gauge	I.D.	O.D.	Contact Mating Surface Plating	Current Rating	Part Number	Replacement Contacts
 <p><b>LUF</b></p>	Female	20-22	0.059 [1.50]	0.122 [3.10]	50 µin gold	25 A	LUF1	YSK035-009AH
		16-18	0.077 [1.95]	0.122 [3.10]	50 µin gold	25 A	LUF2	YSK035-010AH
		12-14	0.112 [2.85]	0.161 [4.10]	50 µin gold	25 A	LUF3	YSK035-011AH
		6	0.217 [5.50]	0.285 [7.25]	50 µin gold	50 A	LUF4	YSK035-030AH
		8-10	0.177 [4.50]	0.217 [5.50]	50 µin gold	50 A	LUF5	YSK035-028AH
 <p><b>LUH</b></p>	Empty Block	—	—	—	—	—	LUH (ZLU002-001)	—
 <p><b>LUM</b></p>	Male	20-22	0.059 [1.50]	0.122 [3.10]	10 µin gold	25 A	LUM1	YPN035-005G
					50 µin gold		LUM1H	YPN035-005H
		16-18	0.059 [1.50]	0.122 [3.10]	10 µin gold	25 A	LUM2	YPN035-006G
					50 µin gold		LUM2H	YPN035-006H
		12-14	0.112 [2.85]	0.161 [4.10]	10 µin gold	25 A	LUM3	YPN035-007G
					50 µin gold		LUM3H	YPN035-007H
		6	0.217 [5.50]	0.285 [7.25]	10 µin gold	50 A	LUM4	YPN035-025RG
					50 µin gold		LUM4H	YPN035-025RH
		8-10	0.177 [4.50]	0.217 [5.50]	10 µin gold	50 A	LUM5	YPN035-023RG
					50 µin gold		LUM5H	YPN035-023RH

## Module D

## 8 A Contact Rating

- 2 units, 17 Hypertac® hyperboloid fixed contacts, Ø0.147 [1.20]

 File No.: UL E102195

Module	Gender	Termination	Contact Mating Surface Plating	Part Number
 <p><b>LDF</b></p>	Female	Solder Cup Up to 20 AWG	50 µin gold	LDFSTAH
 <p><b>LDF</b></p>	Female	Straight Dip Solder	50 µin gold	LDFDTAH
 <p><b>LDM</b></p>	Empty Male Block	—	—	LDMHT (ZLM017-001)
 <p><b>LDF</b></p>	Empty Female Block	—	—	LDFHT (ZLM017-002)
 <p><b>LDM</b></p>	Male	Solder Cup Up to 20 AWG	10 µin gold	LDMST
			50 µin gold	LDMSTH
 <p><b>LDF</b></p>	Female	Crimp 20 AWG wire	50 µin gold	LDFRTAH
 <p><b>LDM</b></p>	Male	Crimp 20 AWG wire	50 µin gold	LDMRTH

## Notes:

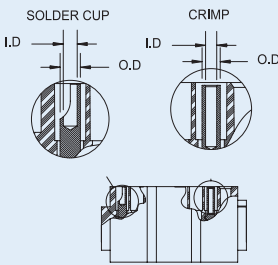
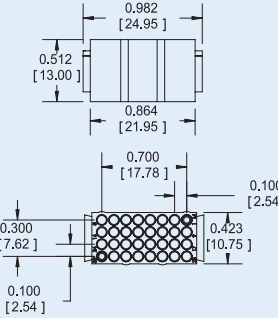
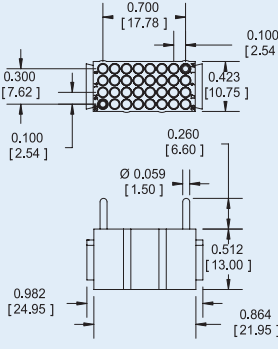
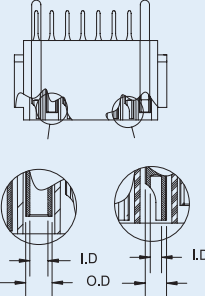
- If assembling the modules into a frame, two YHD0027 clips are required per module.
- Crimp tool AF8, Crimp positioner TP1786.

Dimensions are in inches [mm]

# Module W

## 4 A Contact Rating

- 2 units, 30 Hypertac® hyperboloid removable contacts, Ø0.024 [0.60]  
Can be mounted by itself or in a frame

Module	Gender	Termination	I.D.	O.D.	Contact Mating Surface Plating	Part Number	Replacement Contacts
 <p><b>LWF</b> Guide holes in positions 1 &amp; 32</p>	Female	Crimp 18-20 AWG	0.055 [1.39]	0.071 [1.80]	50 µin gold	LWFRRTAH	YSK006-089AH
		Crimp 22-26 AWG	0.035 [0.90]	0.051 [1.30]		LWFRTAH	YSK006-011AH
		Solder Cup 26 AWG	0.039 [1.00]	0.057 [1.45]		LWFSSTAH	YSK006-010AH
 <p><b>LWFHT</b></p>	Empty Female Block	—	—	—	—	LWFHT (ZLMO30-002)	—
 <p><b>LWMHT</b></p>	Empty Male Block	—	—	—	—	LWMHT	—
 <p><b>LWM</b> Guide holes in positions 1 &amp; 32.</p>	Male	Crimp 18-20 AWG	0.055 [1.39]	0.071 [1.80]	10 µin gold	LWMRRT	YPN006-158G
					50 µin gold	LWMRRTH	YPN006-158Y
		Crimp 22-26 AWG	0.035 [0.90]	0.051 [1.30]	10 µin gold	LWMRT	YPN006-021G
					50 µin gold	LWMRTH	YPN006-021H
		Solder Cup 26 AWG	0.039 [1.00]	0.057 [1.45]	10 µin gold	LWMST	YPN006-020G
					50 µin gold	LWMSTH	YPN006-020H

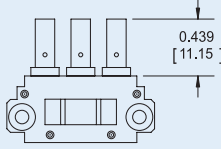
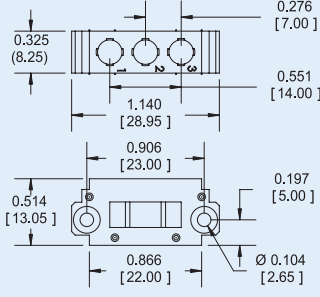
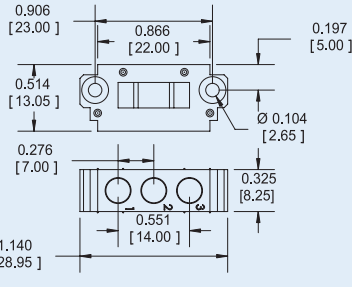
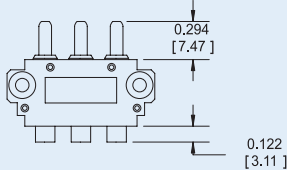
Dimensions are in inches [mm]

## Module V

### 25 A Contact Rating

- 1.5 units, 3 Hypertac® hyperboloid removable contacts, Ø0.098 [2.50]  
Can be mounted by itself or in a frame

 File No.: UL E102195

Module	Gender	Termination	Contact Mating Surface Plating	Part Number	Replacement Contacts
 <p><b>LVF</b></p>	Female	Crimp 12-14 AWG	50 µin gold	LVFP1TAH	YSK025-031AH
 <p><b>LVF</b></p>	Empty Female Block	—	—	LVFHT (ZLVO03-001)	—
 <p><b>LVM</b></p>	Empty Male Block	—	—	LVMHT (ZLVO03-002)	—
 <p><b>LVM</b></p>	Male	Crimp 12-14 AWG	50µin gold	LVMP1TH	YPN025-024H

#### Notes:

- Contact shipped unloaded.

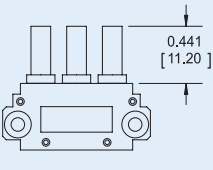
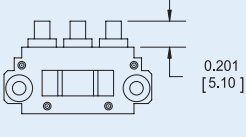
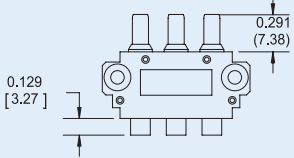
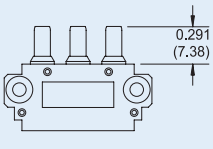


# Module V

## Coax

- 1.5 units, 3 Hypertac® hyperboloid coax contacts (on both signal and ground)  
Can be mounted by itself or in a frame

 File No.: UL E102195

Module	Gender	Termination	Part Number	Replacement Contacts	Cable Termination Instructions*
 <p>LVF</p>	Female	Crimp Coaxial for RG316	LVFRTAH	YCX0315-002AH	S50302
		Crimp Coaxial for RG316DB	LVFR1TAH	YCX0315-019AH	
 <p>LVF</p>	Female	Solder Coaxial for RG405 or T-Flex 405	LVFSTAH	YCX0315-001AH	S50301 or S50307 (T-Flex)
 <p>LVM</p>	Male	Crimp Coaxial for RG316	LVMRTH	YCX0315-004H	S50304
		Crimp Coaxial for RG316DB	LVMR1TH	YCX0315-018H	
 <p>LVM</p>	Male	Solder Coaxial for RG405 or T-Flex 405	LVMSTH	YCX0315-003H	S50303 or S50308 (T-Flex)

\* Please request specs from our customer service department.

### COAXTAC™

- Nominal Impedance:** 50 Ω
- Frequency Range:** DC 3 GHz with RG316  
DC 18 GHz with RG405

### Contact Resistance

- Inner Contact:** 8 mΩ max.
- Outer Contact:** 2 mΩ max.
- Temperature Rating:** -55° to 125° C
- Voltage Standing Wave Ratio:** (DC to 3 GHz) 1:20:1 max.  
(3 GHz to 18 GHz) 1:50:1 max.
- RF Transmission Loss:** 0.50 dB at 18 GHz
- Insulation Resistance:** 5,000 MΩ min.
- DWV:** 500 V RMS
- Extraction Force Per Contact:** 1.5 to 6.0 oz. max. 3.0 oz. average
- Connector Life Cycle:** >25,000 cycles

Dimensions are in inches [mm]

### MATERIALS & FINISHES

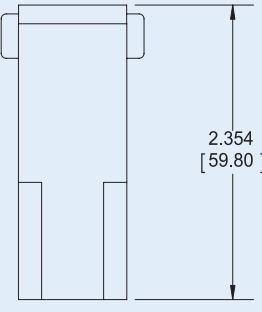
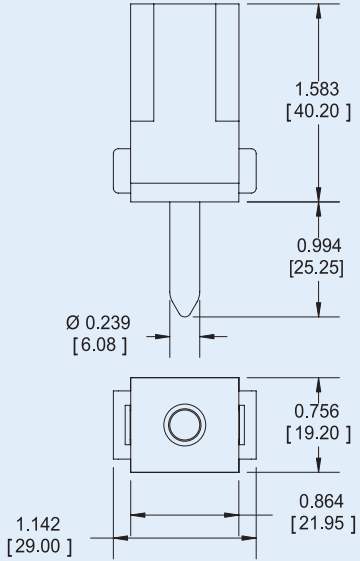
- Materials:** Brass, beryllium copper  
PTFE fluorocarbon
- Finishes**
- Center Contacts & Housings:** Gold over nickel over copper
- Wire:** Gold over nickel

## Module G

### 200 A Contact Rating

- 3.5 units, 1 Hypertac® hyperboloid removable crimp contact, Ø0.239 [6.08]
- Recommended for LEH and LPH frames only

 File No.: UL E102195

Module	Gender	Termination	I.D.	Contact Mating Surface Plating	Part Number	Replacement Contacts
 <p>LGF</p>	Female	Crimp 1/0 AWG	0.445 [11.30]	50 µin gold	LGFRTAH	YSK0612-015AH
 <p>LGM</p>	Male	Crimp 1/0 AWG	0.445 [11.30]	30 µin gold	LGMRTI	YPN0612-021RI

#### Notes:

- Contacts shipped unloaded.
- Approved for 180 Amps by CSA for 30° C temperature rise.

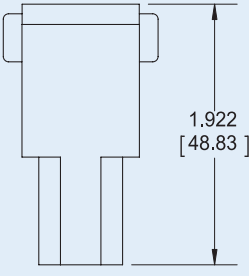
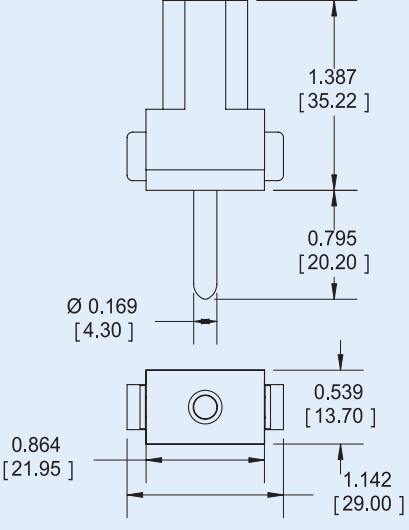
Dimensions are in inches [mm]

# Module K

## 100 A Contact Rating

- 2.5 units, 1 Hypertac® hyperboloid removable crimp contact, Ø0.169 [4.30]  
Recommended for LEH and LPH frames only

 File No.: UL E102195

Module	Gender	Termination	I.D.	Contact Mating Surface Plating	Part Number	Replacement Contacts
 <p>LKF</p>	Female	Crimp 4 AWG	0.283 [7.20]	50 µin gold	LKFRTAH	YSK043-010AH
 <p>LKM</p>	Male	Crimp 4 AWG	0.283 [7.20]	30 µin gold	LKMRTI	YPN043-016RI

**Notes:**

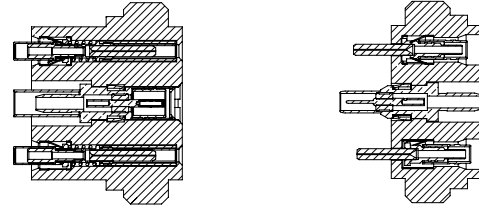
- Contacts shipped unloaded.

Dimensions are in inches [mm]

## Module F

### Fiber Optic & Coax or Power Module

- 1.5 units, 2 butt joint fiber optic contacts & 1 Coaxtac or 1 power (25A) contact



Module	Gender	Module Part Number	Contact part numbers (sold separately)
<p>LFF</p>	Female Empty Block	LFFHT	<p><b>For Female Module:</b></p> <p><b>Fiber Optic:</b> Socket terminus 1.3 mm 62.5/125 um multimode FO cable</p> <ul style="list-style-type: none"> <li>Contact p/n: 853-0011788-001</li> <li>Protective cap: 218-0000508</li> </ul> <p><b>Coaxtac coaxial contacts:</b></p> <ul style="list-style-type: none"> <li>p/n for RG316 (crimp): - YCX0315-002AH</li> <li>p/n for RG316DB (crimp): - YCX0315-019AH</li> <li>p/n for RG405 or T-Flex 405 (solder): - YCX0315-001AH</li> </ul> <p><b>Hypertac® Power Contacts (25A):</b></p> <ul style="list-style-type: none"> <li>p/n for 12-14 AWG crimp socket: - YSK025-031AH</li> </ul>
<p>LFM</p>	Male Empty Block	LFMHT	<p><b>For Male Module</b></p> <p><b>Fiber Optic:</b> Pin terminus for 1.3 mm 62.5/125 um multimode FO cable</p> <ul style="list-style-type: none"> <li>Contact p/n: 238533-0000 (dust cap included)</li> </ul> <p><b>Coaxtac coaxial contacts</b></p> <ul style="list-style-type: none"> <li>p/n for RG316 (crimp): - YCX0315-004H</li> <li>p/n for RG316DB (crimp): - YCX0315-018H</li> <li>p/n for RG405 or T-Flex 405 (solder): - YCX0315-003H</li> </ul> <p><b>Hypertac® Power Contacts (25A)</b></p> <ul style="list-style-type: none"> <li>p/n for 12-14 AWG crimp pin: - YPN025-024H</li> </ul>

#### Notes:

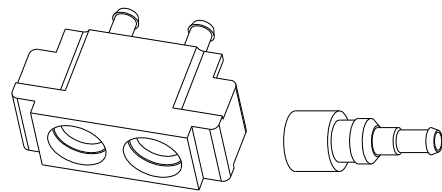
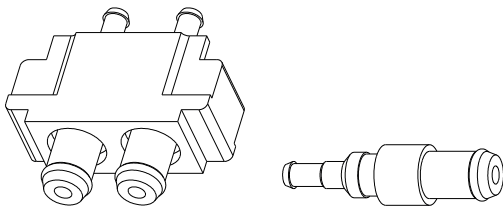
- Contacts are not included with the insulators, must be purchased separately and installed in the insulator modules after termination.
- Insulator material: polyetherimide, black
- Coax tools:
  - Center conductor: AFM8 crimper & T1957 positioner
  - Outer conductor: HX3 crimper & T1958 (T2019 for RG316DB) die set
  - Extraction tool: T1982

# Module PN

## Pneumatic\*

- 2 units, 2 pneumatic contacts

Module	Gender	Part Number	Tubing ID	Contacts
	Female	LPNF	4 mm	M0918 Nominal ID 2.5 mm
	Empty	LPNH	—	—
	Male	LPNM	4 mm	M0919 Nominal ID 2.5 mm



\* Operating medium: Compressed air in accordance with ISO8573-1:2010 [7:-:-]  
 Note on operating and pilot medium: Lubricated operation possible

Dimensions are in inches [mm]

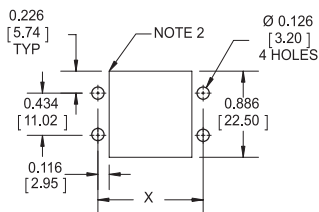
# Mounting Dimensions

UNITS	X	Y
4	1.122 [28.50]	1.969 [50.00]
5	1.338 [34.00]	2.185 [55.50]
6	1.555 [39.50]	2.402 [61.00]
7	1.771 [45.00]	2.618 [66.50]
8	1.988 [50.50]	2.835 [72.00]
9	2.205 [56.00]	3.051 [77.50]
10	2.421 [61.50]	3.268 [83.00]
11	2.638 [67.00]	3.484 [88.50]
12	2.854 [72.50]	3.701 [94.00]
13	3.070 [78.00]	3.917 [99.50]
14	3.287 [83.50]	4.134 [105.00]
15	3.504 [89.00]	4.350 [110.50]
16	3.720 [94.50]	4.567 [116.00]
17	3.936 [100.00]	4.784 [121.50]
18	4.153 [105.50]	5.00 [127.00]
19	4.370 [111.00]	5.217 [132.50]
20	4.586 [116.50]	5.433 [138.00]
21	4.803 [122.00]	5.650 [143.50]
22	5.019 [127.50]	5.866 [149.00]

## Stationary Mounting

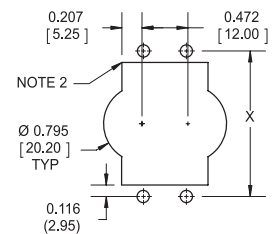
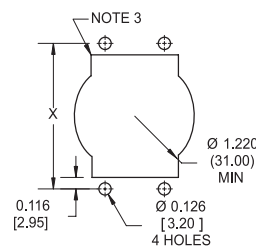
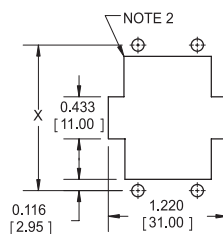
For Frame Types: A, B, BV, J, JV, K, KV, R, RV

### Mount to Wiring Side of Connector



### Stationary with Jackscrew Extraction

Three alternate mounting dimensions for receptacle to provide clearance for jackscrew base hold down clamps



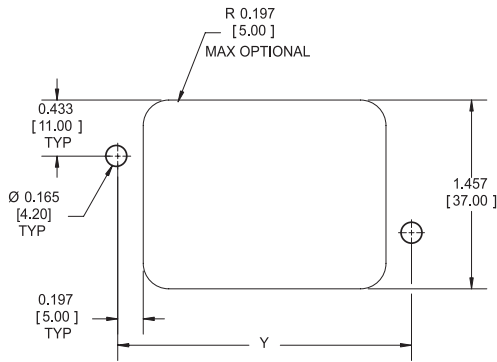
#### Notes:

- Standard frames are shipped completely assembled with the selected modules mounted.
- 59.0 oz. in torque for mounting.
- 0.010 [0.25] maximum radius typical.

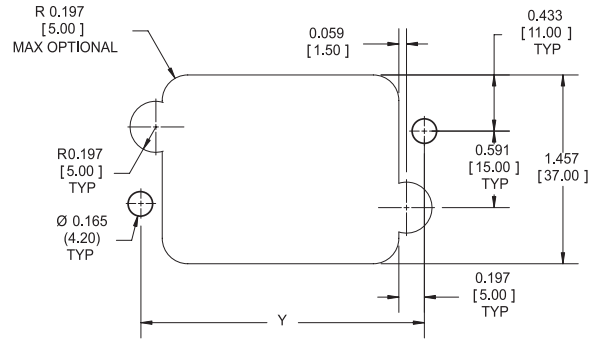
# Float Mounting

For Frame Type H

Plug



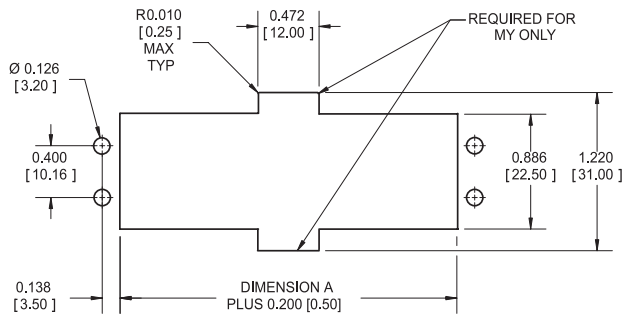
Receptacle



# Mounting

For Frame Type MV & MY

Receptacle



UNITS	A
12	2.598 [66.00]
15	3.248 [82.50]
20	4.331 [110.00]
22	4.764 [121.00]

**Notes:**

1. Standard frames are shipped completely assembled with the selected modules mounted.
2. 59.0 oz. in torque for mounting.
3. 0.010 [0.25] maximum radius typical.

Dimensions are in inches [mm]

# Worldwide Support

## Connectors

### Americas

#### Sales

connectors.uscsr@smithsinterconnect.com

#### Technical Support

connectors.ustechsupport@smithsinterconnect.com

### Europe

#### Sales

connectors.emeacsr@smithsinterconnect.com

#### Technical Support

connectors.emeatechsupport@smithsinterconnect.com

### Asia

#### Sales

asiacsr@smithsinterconnect.com

#### Technical Support

asiatechsupport@smithsinterconnect.com

## Fiber Optics & RF Components

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## Semiconductor Test

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## Connecting Global Markets

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