

# MODULAR

L Series

N Series



All products are available on 3D Config





L Series modular connectors employ a do-it-yourself system based on the building block principle. They offer a wide variety of combinations available in a single connector frame. Thus, the user is capable of selecting the connector that fulfills exact requirements with off-the-shelf components.

In this application, the low insertion and extraction forces of the Hypertac contact technology enable the user to assemble large numbers of contacts in a single connector that mates and unmates smoothly and easily.

L Series can be built for the following:

- Rack and panel applications
  - Standard
  - With Jackscrews (standard and quick disconnect)
  - With floating mounting
- Cable applications
  - Hooded with rounded or flat cable clamps
  - With Jackscrews (standard and quick disconnect)
- Programming applications

L Series systems are composed of two elements: modules and frames.

Modules are the connector elements of the system. Various types of contacts are available such as signal, power and coaxial. The contacts are mounted in small plastic blocks. Crimp contacts are also available in plastic blocks that can be mounted individually or together into the frame.

The width of each module block is designated in units.

Modules available with fixed contacts:

- 2 contacts at 200 Amps (Type P)
- 2 contacts at 50 Amps (Type M)
- 2 contacts at 25 Amps (Type C)
- 4 contacts at 16 Amps (Type N)
- 3 contacts at 15 Amps (Type B)
- 5 contacts at 8 Amps (Type A)
- 17 contacts at 8 Amps (Type D)
- 2 contacts at 5 Amps (Type E)
- 2 contacts high voltage (Type H)

Modules available with “Snap In” crimp contacts:

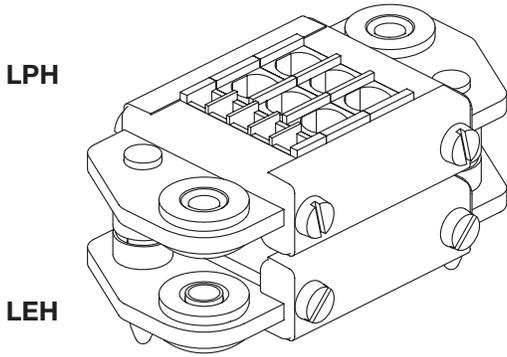
- 1 contact at 200 Amps (Type G)
- 1 contact at 100 Amps (Type K)
- 2 contacts at 25 and 50 Amps (Type U)
- 3 contacts at 25 Amps (Type V)
- 3 contacts at 15 Amps (Type S)
- 5 contacts at 8 Amps (Type R)
- 30 contacts at 4 Amps (Type W)
- 3 contacts coaxial (Type V)

The frames hold the modules in position. They range from a basic frame consisting of 2 side rails and 2 end caps to more complex versions with Jackscrews, hoods and cable clamps. All frames are available in numerous lengths to conform to almost any combination of modules.

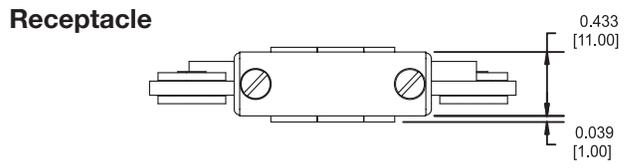
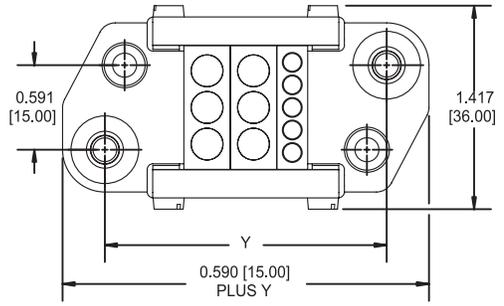
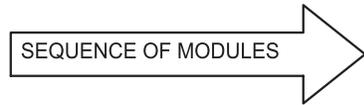
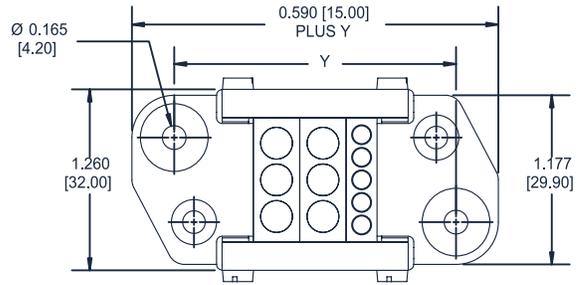
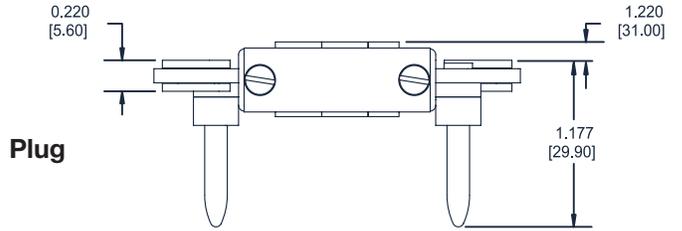
With the L Series, specially designed connectors can be purchased quickly and inexpensively, eliminating the extra cost and delay of custom tooling.

Frame H

UL File No.: UL E102195

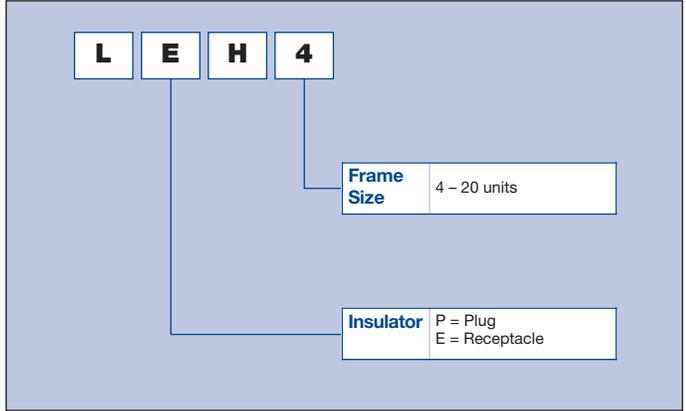


- Rack and panel with guides
- Float mounting 0.049 [1.25]<sup>2</sup> max. from center



Weight, Excluding Modules	
Plug	1.9 oz. at 4 units
	2.8 oz. at 20 units
Receptacle	1.6 oz. at 4 units
	2.5 oz. at 20 units

Ordering Information



Mounting Dimensions

Units	4	5	6	7	8	9	
Y	1.969 [50.00]	2.185 [55.50]	2.402 [61.00]	2.618 [66.50]	2.835 [72.00]	3.051 [77.50]	
Units	10	11	12	13	14	15	
Y	3.268 [83.00]	3.484 [88.50]	3.701 [94.00]	3.917 [99.50]	4.134 [105.00]	4.350 [110.50]	
Units	16	17	18	19	20	21	22
Y	4.567 [116.00]	4.784 [121.50]	5.00 [127.00]	5.217 [132.50]	5.433 [138.00]	5.650 [143.50]	5.866 [149.00]

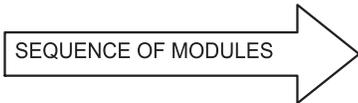
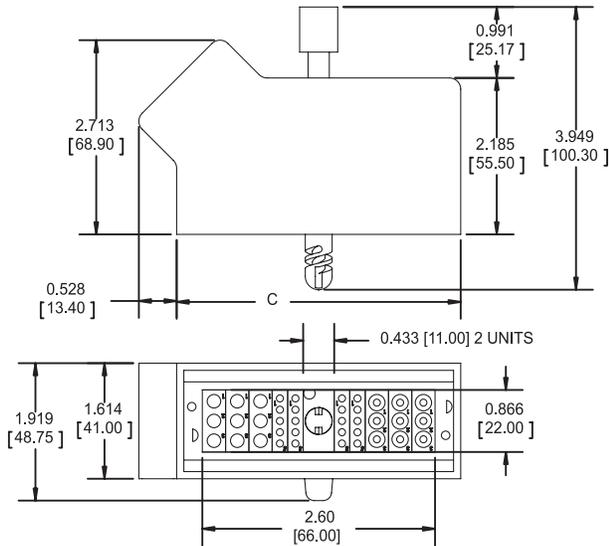
NOTES:  
 1) See mounting dimensions.  
 2) Available option: 0.125 inch float (use modification 398).

Dimensions are in inches [mm]

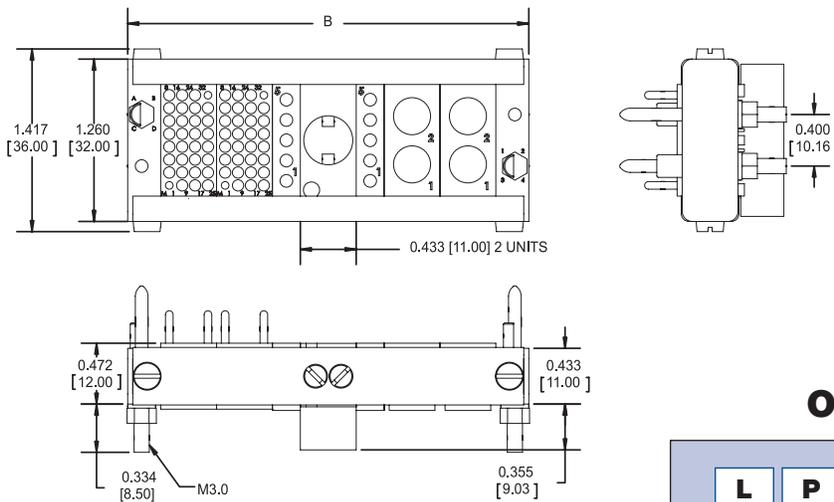
**Frame MY (Plastic Backshells)**

- 180° quick turn
- Up to 300 signal contacts
- 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

**LPMY (Half Turn Plug)**

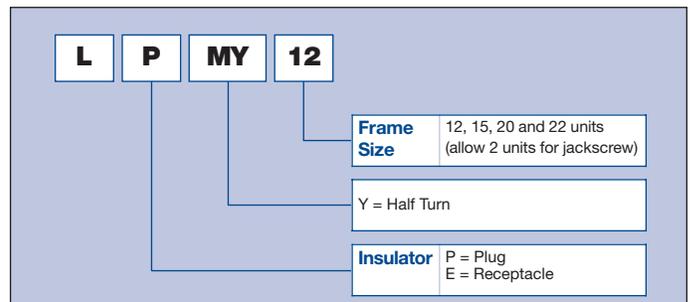


**LEMY (Half Turn Receptacle)**



Number of Units	Dimensions	
	B	C
12	3.11 [79.00]	3.315 [84.20]
15	3.76 [95.50]	3.965 [100.70]
20	4.843 [123.00]	5.047 [128.20]
22	5.276 [134.00]	5.480 [139.20]

**Ordering Information**



**NOTES:**  
1) See mounting dimensions.  
2) Half turn plug frame without hood available as LPMMY.

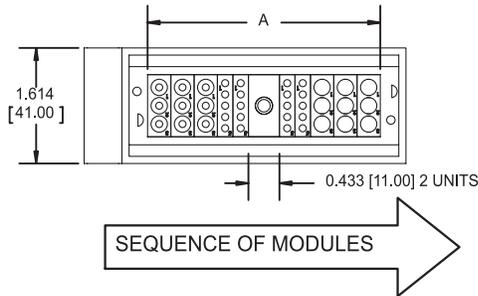
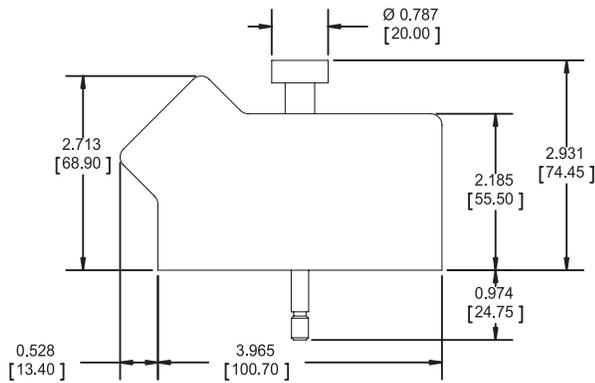
Dimensions are in inches [mm]

**Frame MV (Plastic Backshells)**

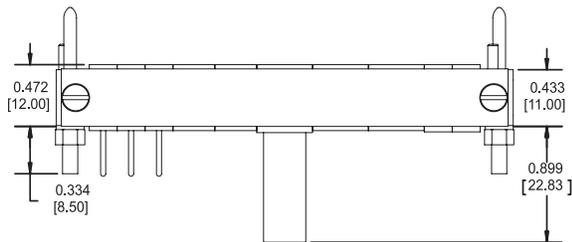
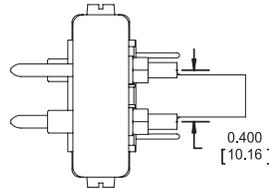
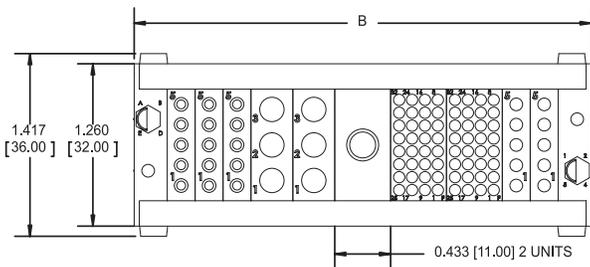
- 180° standard multi-turn
- Up to 300 signal contacts
- Adjustable cable clamp: 0.425 to 1.26 [11.50 to 32.00]
- > 5,000 mating cycles

- 36 keying combinations
- Rugged black polycarbonate backshell
- Built-in pin protection
- 12, 15, 20 and 22 unit lengths

**LPMV (Multi-Turn Plug)**



**LEMV (Multi-Turn Receptacle)**

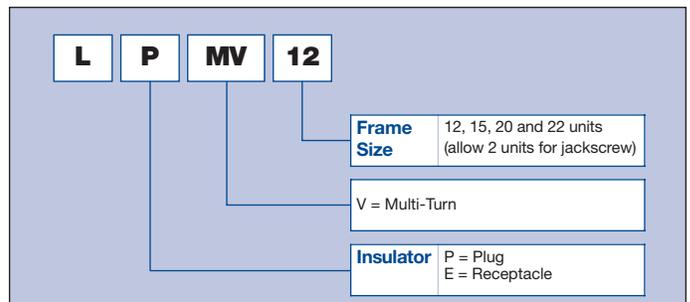


Number of Units	Dimensions		
	A	B	C
12	2.598 [66.00]	3.11 [79.00]	3.315 [84.20]
15	3.248 [82.50]	3.76 [95.50]	3.965 [100.70]
20	4.331 [110.00]	4.843 [123.00]	5.047 [128.20]
22	4.764 [121.00]	5.276 [134.00]	5.480 [139.20]

**NOTE:**  
1) See mounting dimensions.

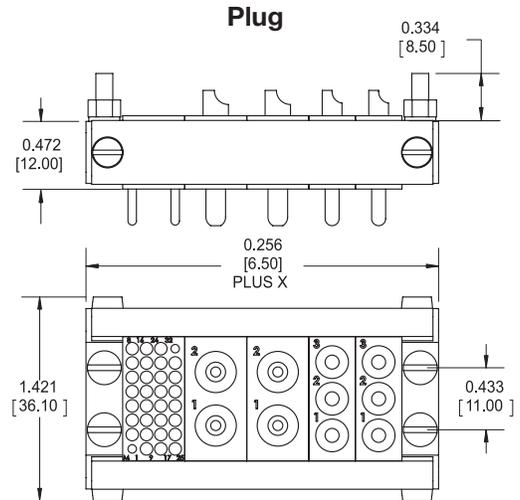
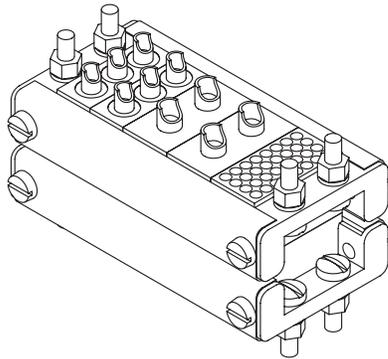
Dimensions are in inches [mm]

**Ordering Information**

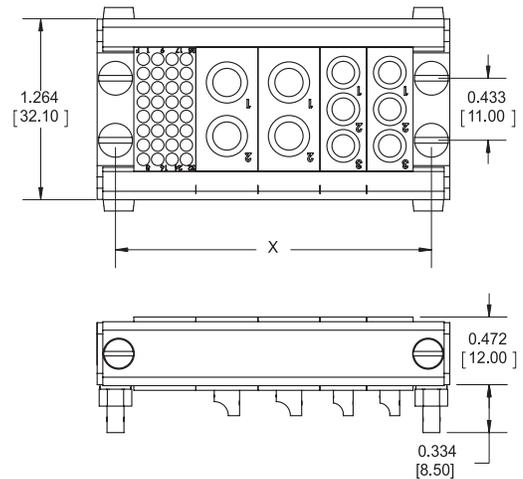


**Frame A**

- Simple Rack and Panel

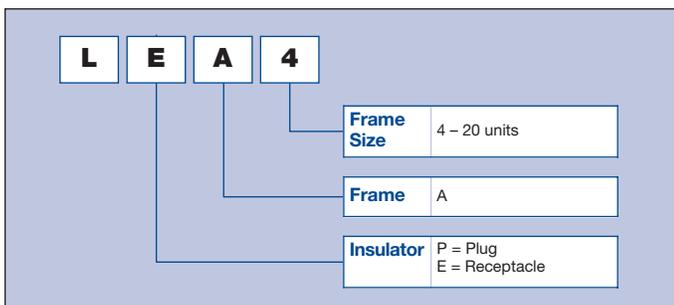


**Receptacle**



Weight, Excluding Modules	
<b>A Plug</b>	1.0 oz. at 4 units
	1.9 oz. at 20 units
<b>A Receptacle</b>	1.0 oz. at 4 units
	1.9 oz. at 20 units

**Ordering Information**



**Mounting Dimensions**

Units	4	5	6	7	8	9	10	11	12
<b>X</b>	1.122 [28.50]	1.338 [34.00]	1.555 [39.50]	1.771 [45.00]	1.988 [50.50]	2.205 [56.00]	2.421 [61.50]	2.638 [67.00]	2.854 [72.50]

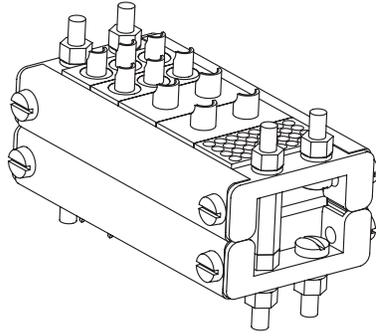
Units	13	14	15	16	17	18	19	20
<b>X</b>	3.070 [78.00]	3.287 [83.50]	3.504 [89.00]	3.720 [94.50]	3.936 [100.00]	4.153 [105.50]	4.370 [111.00]	4.586 [116.50]

**NOTE:**  
See mounting dimensions.

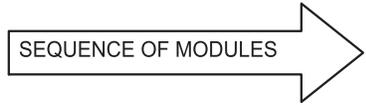
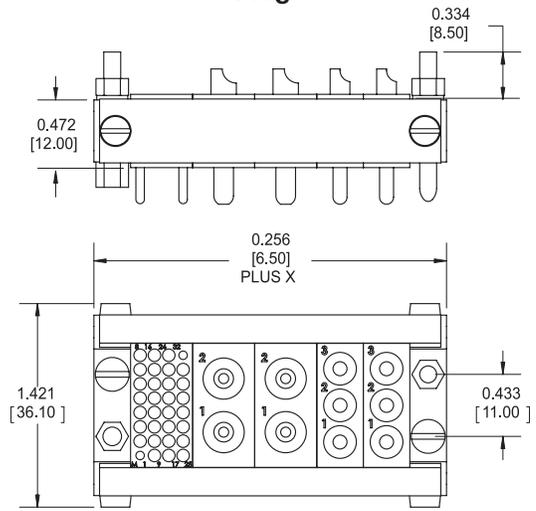
Dimensions are in inches [mm]

**Frame B**

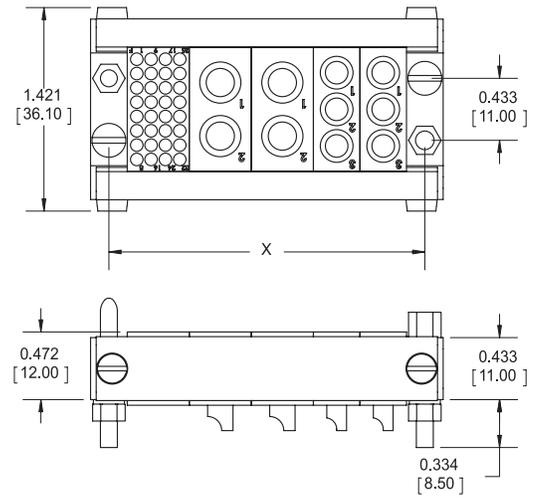
- Simple Rack and Panel with guides



**Plug**

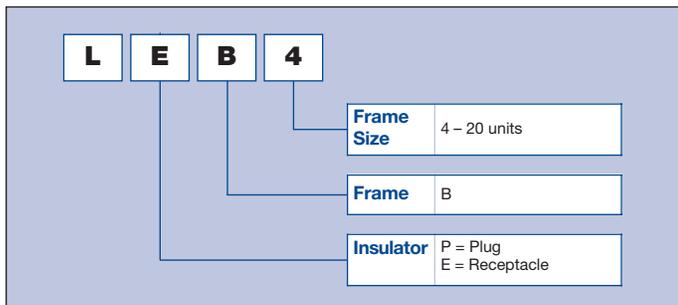


**Receptacle**



Weight, Excluding Modules	
<b>B Plug</b>	1.0 oz. at 4 units
	1.9 oz. at 20 units
<b>B Receptacle</b>	1.0 oz. at 4 units
	1.9 oz. at 20 units

**Ordering Information**



**Mounting Dimensions**

Units	4	5	6	7	8	9	10	11	12
<b>X</b>	1.122 [28.50]	1.338 [34.00]	1.555 [39.50]	1.771 [45.00]	1.988 [50.50]	2.205 [56.00]	2.421 [61.50]	2.638 [67.00]	2.854 [72.50]

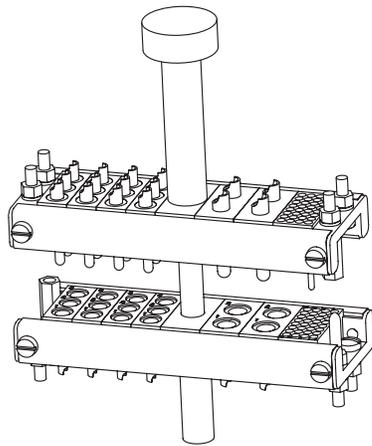
Units	13	14	15	16	17	18	19	20
<b>X</b>	3.070 [78.00]	3.287 [83.50]	3.504 [89.00]	3.720 [94.50]	3.936 [100.00]	4.153 [105.50]	4.370 [111.00]	4.586 [116.50]

**NOTE:**  
See mounting dimensions.

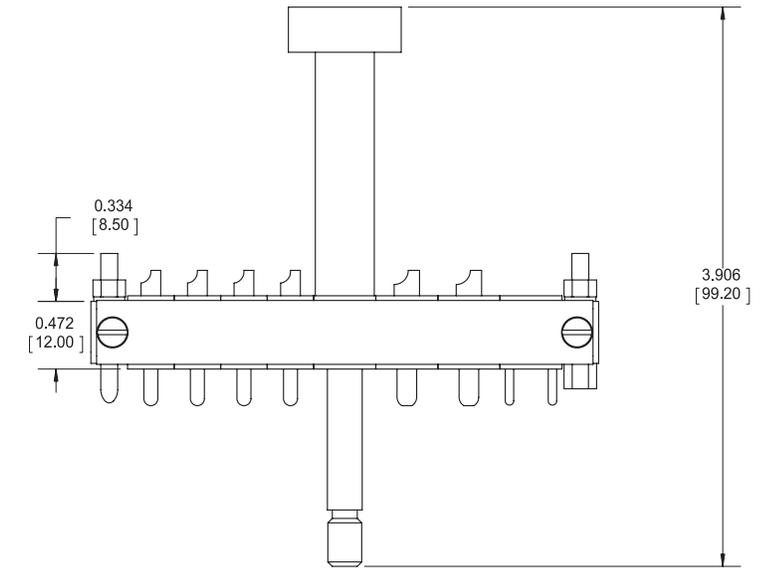
Dimensions are in inches [mm]

**Frame BV**

- Rack and panel with guides and Jackscrew



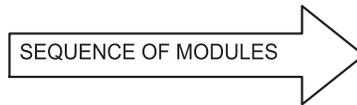
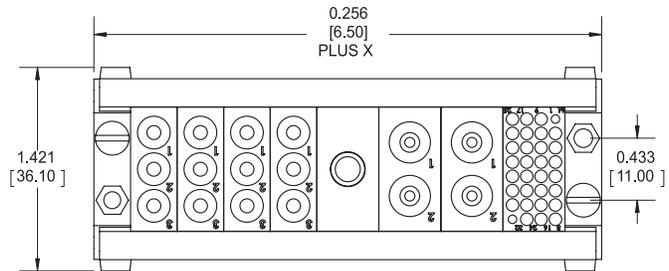
**Plug**



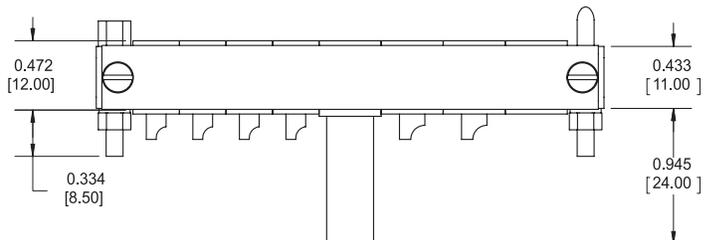
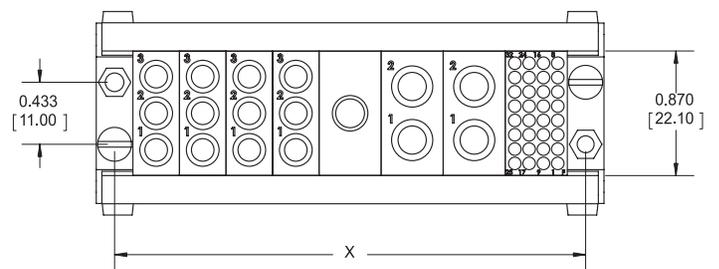
**Mounting Dimensions**

Units	4	5	6	7	8	9	10	11	12
X	1.122 [28.50]	1.338 [34.00]	1.555 [39.50]	1.771 [45.00]	1.988 [50.50]	2.205 [56.00]	2.421 [61.50]	2.638 [67.00]	2.854 [72.50]

Units	13	14	15	16	17	18	19	20
X	3.070 [78.00]	3.287 [83.50]	3.504 [89.00]	3.720 [94.50]	3.936 [100.00]	4.153 [105.50]	4.370 [111.00]	4.586 [116.50]

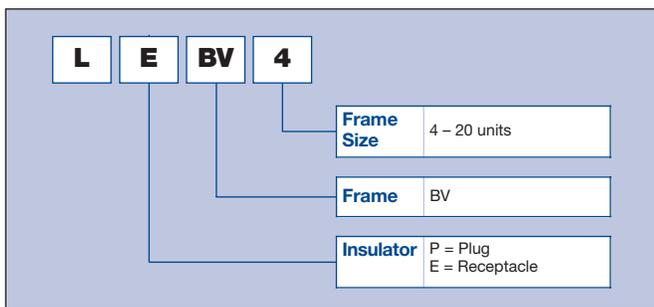


**Receptacle**



Weight, Excluding Modules	
<b>BV Plug</b>	4.7 oz. at 4 units
	5.6 oz. at 20 units
<b>BV Receptacle</b>	2.5 oz. at 4 units
	3.4 oz. at 20 units

**Ordering Information**

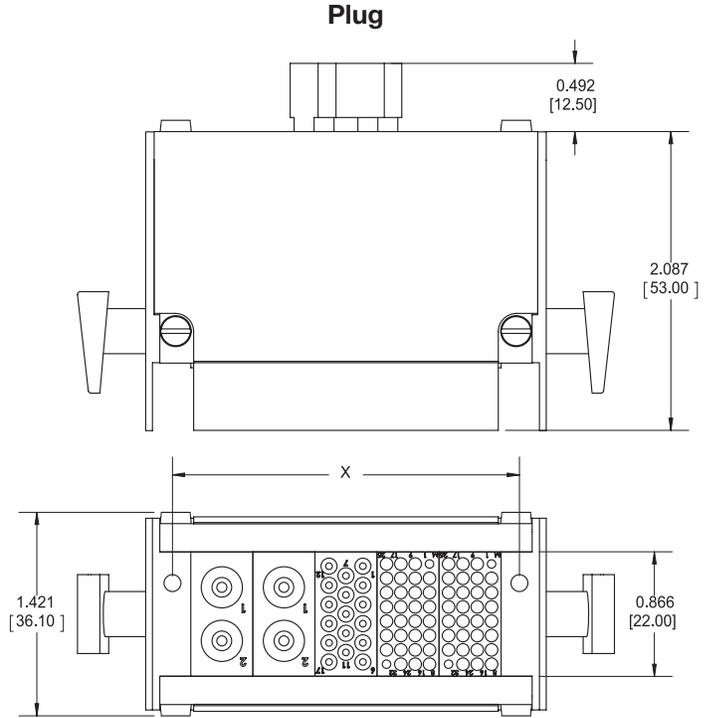
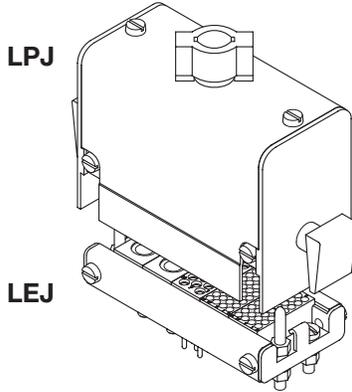


**NOTE:**  
See mounting dimensions.

Dimensions are in inches [mm]

**Frame J** (Metal Backshell)

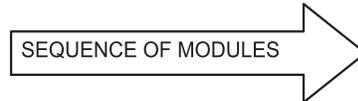
- Hooded connector with round cable clamp
- Alternate cable clamp locations available



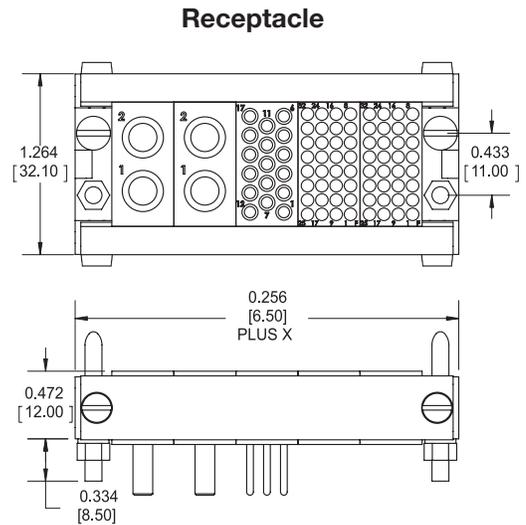
**Mounting Dimensions**

Units	4	5	6	7	8	9	10	11	12
X	1.122 [28.50]	1.338 [34.00]	1.555 [39.50]	1.771 [45.00]	1.988 [50.50]	2.205 [56.00]	2.421 [61.50]	2.638 [67.00]	2.854 [72.50]

Units	13	14	15	16	17	18	19	20
X	3.070 [78.00]	3.287 [83.50]	3.504 [89.00]	3.720 [94.50]	3.936 [100.00]	4.153 [105.50]	4.370 [111.00]	4.586 [116.50]



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



**Ordering Information**

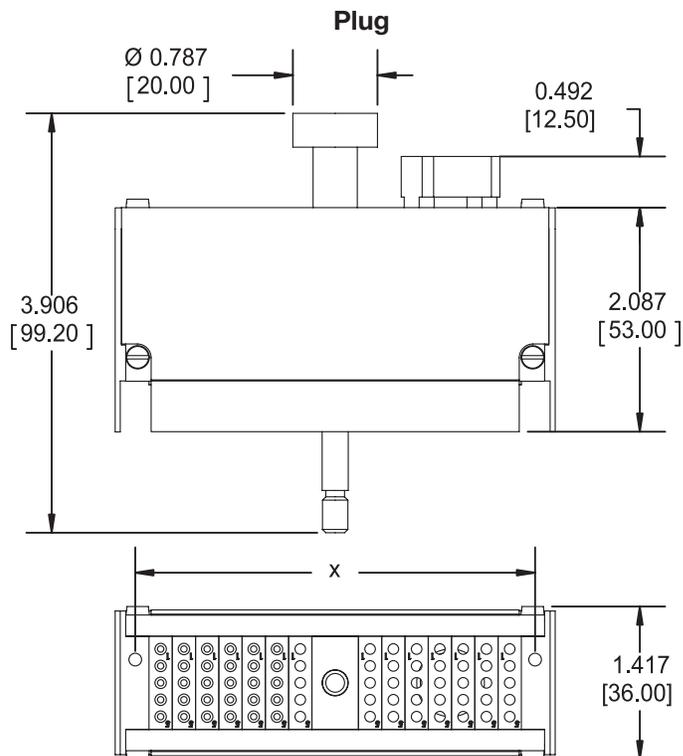
<b>L</b>	<b>P</b>	<b>J</b>	<b>14</b>	<b>SC10</b>		
					<b>Cable Clamp</b>	SC10, SC15, SC20, SC24 Not applicable on receptacle
					<b>Frame Size</b>	4 – 20 units
					<b>Insulator</b>	P = Plug E = Receptacle

- NOTES:**
- 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 (Metal Backshell)

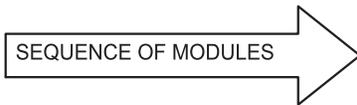
- Hooded connector with round cable clamp
- Side and double openings also available by special order
- Jackscrew extraction



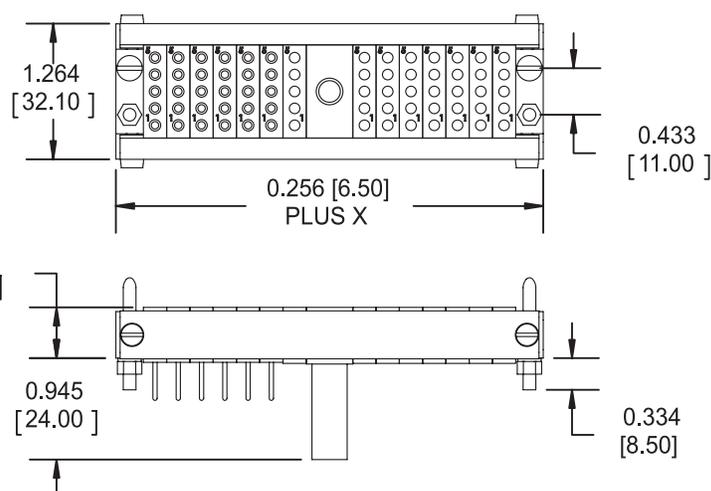
### Mounting Dimensions

Units	4	5	6	7	8	9	10	11	12
X	1.122 [28.50]	1.338 [34.00]	1.555 [39.50]	1.771 [45.00]	1.988 [50.50]	2.205 [56.00]	2.421 [61.50]	2.638 [67.00]	2.854 [72.50]

Units	13	14	15	16	17	18	19	20
X	3.070 [78.00]	3.287 [83.50]	3.504 [89.00]	3.720 [94.50]	3.936 [100.00]	4.153 [105.50]	4.370 [111.00]	4.586 [116.50]



### Receptacle



Weight, Excluding Modules	
Plug	1.9 oz. at 4 units
	2.8 oz. at 20 units
Receptacle	1.6 oz. at 4 units
	2.5 oz. at 20 units

### Ordering Information

<b>L</b>	<b>P</b>	<b>JV</b>	<b>16</b>	<b>SC10</b>		
					<b>Cable Clamp</b>	SC10, SC15, SC20, SC24 Not applicable on receptacle
					<b>Frame Size</b>	4 - 20 units
					<b>Insulator</b>	P = Plug E = Receptacle

**NOTES:**

- 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]

## Ordering Information

Module A 8 Amp Contact Rating	Width: 1 Unit • Contacts: 5 Hypertac® Fixed Contacts • Ø 0.059 [1.50]			
	Gender	Termination	Plating	Part Number
	Female	Solder Cup up to 16 AWG	50µin gold	LAFSTAH
	Female	Straight Dip Solder	50µin gold	LAFDTAH
	Empty Block	—	—	ZLM005-001 (LAHT)
	Male	Solder Cup up to 16 AWG	10µin gold	LAMST
			50µin gold	LAMSTH
	Male	Straight Dip Solder	10µin gold	LAMDT
			50µin gold	LAMDTH

File No.: UL E102195

Crimp Termination: Crimp “R” modules intermate with “A” modules.

Plating Reference	
Male Pins:	10µin gold (min) over nickel 50µin gold (min) over nickel
Female Sockets:	50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

**NOTE:**  
If assembling the modules into a frame, two YHD0027 clips are required per module.

Dimensions are in inches [mm]

General Specifications	
Current Rating	8 Amps
Contact Resistance	< 2.5 milliohms
Extraction Force (Per Contact)	1.0 – 5.0 oz.
Contact Life Cycles	> 100,000
Breakdown Voltage	> 2000V RMS
Dielectric Withstanding Voltage	1500V RMS
Insulation Resistance	> 10 <sup>6</sup> megohms at 500 VDC
Temperature Rating	-55° C to 125° C
Insulator Material	Diallyl-phthalate
Contact	
Material	(Pin) Brass (Socket) Beryllium copper wires and brass body
Approximate Weight	M: 0.2 oz., F: 0.15 oz.

## Ordering Information

<b>Module R</b> <b>8 Amp Contact Rating</b>	Width: 1 Unit • Contacts: 5 Hypertac® “Snap In” Crimp Contacts • Ø 0.059 [1.50] Can be mounted by itself or in a frame						
	Gender	Wire Gauge	Dimensions		Plating	Part Number	Replacement Contacts
			ID	OD			
	Female	18-22	0.057 [1.45]	0.104 [2.65]	50µin gold	LRF1	YSK015-013AH
		24-26	0.022 [0.56]	0.076 [1.93]	50µin gold	LRF2	YSK015-009AH
		16	0.071 [1.80]	0.108 [2.75]	50µin gold	LRF3	YSK015-014AH
		14	0.079 [2.00]	0.122 [3.10]	50µin gold	LRF4	YSK015-045AH
	Empty Block	—	—	—	—	ZLR005-001 (LRH)	—
	Male	18-22	0.057 [1.45]	0.104 [2.65]	10µin gold	LRM1	YPN015-009RG
					50µin gold	LRM1H	YPN015-009RH
		24-26	0.022 [0.56]	0.076 [1.93]	10µin gold	LRM2	YPN015-004RG
					50µin gold	LRM2H	YPN015-004RH
		16	0.071 [1.80]	0.108 [2.75]	10µin gold	LRM3	YPN015-010G
					50µin gold	LRM3H	YPN015-010H
		14	0.079 [2.00]	0.122 [3.10]	10µin gold	LRM4	YPN015-033RG
					50µin gold	LRM4H	YPN015-033RH

File No.: UL E102195

Solder Cup and Straight Dip Termination:  
 “A” modules intermate with “R” modules.

Accessories	
Crimp Tool .....	AF8
Crimp Positioner:	
Style 1 and 3 .....	TP592
Style 2 .....	TP655
Style 4 .....	TP1128
Insertion/Extraction Tool.....	S0150.01

Plating Reference	
Male Pins:	10µin gold (min) over nickel 50µin gold (min) over nickel
Female Sockets:	50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

General Specifications		
<b>Current Rating</b>	8 Amps	
<b>Contact Resistance</b>	< 2.5 milliohms	
<b>Extraction Force (Per Contact)</b>	1.0 – 5.0 oz.	
<b>Contact Life Cycles</b>	> 100,000	
<b>Breakdown Voltage</b>	> 1600V RMS	
<b>Dielectric Withstanding Voltage</b>	1200V RMS	
<b>Insulation Resistance</b>	> 10 <sup>4</sup> megohms at 500 VDC	
<b>Temperature Rating</b>	-55° C to 105° C	
<b>Insulator Material</b>	Nylon	
<b>Contact</b>		
Material	(Pin) (Socket)	Brass Beryllium copper wires and brass body
<b>Approximate Weight</b>	M: 0.22 oz., F: 0.16 oz.	

Dimensions are in inches [mm]

## Ordering Information

<b>Module B</b> <b>15 Amp Contact Rating</b>	Width: 1.5 Units • Contacts: 3 Hypertac® Fixed Contacts • Ø 0.098 [2.50]			
	Gender	Termination	Plating	Part Number
	Female	Solder Cup up to 12 AWG	50µin gold	LBFSTAH
	Female	Straight Dip Solder	50µin gold	LBFDTAH
	Empty Block	—	—	ZLM003-001 (LBHT)
	Male	Solder Cup up to 12 AWG	10µin gold	LBMST
			50µin gold	LBMSTH
	Male	Straight Dip Solder	10µin gold	LBMDT
			50µin gold	LBMDTH

File No.: UL E102195

Crimp Termination: “S” modules intermate with “B” modules.

Plating Reference	
Male Pins:	10µin gold (min) over nickel 50µin gold (min) over nickel
Female Sockets:	50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

**NOTE:**  
If assembling the modules into a frame, two YHD0027 clips are required per module.

Dimensions are in inches [mm]

General Specifications	
Current Rating	15 Amps
Contact Resistance	< 1 milliohms
Extraction Force (Per Contact)	3.0 – 25.0 oz.
Contact Life Cycles	> 100,000
Breakdown Voltage	> 1600V RMS
Dielectric Withstanding Voltage	1200V RMS
Insulation Resistance	> 10 <sup>6</sup> megohms at 500 VDC
Temperature Rating	-55° C to 125° C
Insulator Material	Diallyl-phthalate
Contact	
Material	(Pin) Brass (Socket) Beryllium copper wires and brass body
Approximate Weight	M: 0.35 oz., F: 0.25 oz.

## Ordering Information

<b>Module S</b> <b>15 Amp Contact Rating</b>	Width: 1.5 Units • Contacts: 3 Hypertac® “Snap In” Crimp Contacts • Ø 0.098 [2.50] Can be mounted by itself or in a frame						
	Gender	Wire Gauge	Dimensions		Plating	Part Number	Replacement Contacts
			ID	OD			
	Female	18-22	0.059 [1.50]	0.122 [3.10]	50µin gold	LSF1	YSK025-003AH
		13-14	0.077 [1.95]	0.122 [3.10]	50µin gold	LSF2	YSK025-004AH
		12	0.100 [2.54]	0.150 [3.81]	50µin gold	LSF4	YSK025-013AH
	Empty Block	—	—	—	—	ZLS003-002 (LSH)	—
	Male	18-22	0.059 [1.50]	0.122 [3.10]	10µin gold	LSM1	YPN025-002G
		18-22			50µin gold	LSM1H	YPN025-002H
		13-14	0.077 [1.95]	0.122 [3.10]	10µin gold	LSM2	YPN025-003G
		13-14			50µin gold	LSM2H	YPN025-003H
		12	0.100 [2.54]	0.150 [3.81]	10µin gold	LSM4	YPN025-011RG
		12			50µin gold	LSM4H	YPN025-011RH

File No.: UL E102195

Solder Cup and Straight Dip Termination:  
 “B” modules intermate with “S” modules.

Accessories	
Crimp Tool .....	M309
Crimp Positioner .....	TP1179
Insertion/Extraction Tool .....	S0250.01

Plating Reference	
Male Pins:	10µin gold (min) over nickel 50µin gold (min) over nickel
Female Sockets:	50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

General Specifications	
<b>Current Rating</b>	15 Amps
<b>Contact Resistance</b>	< 1.5 milliohms
<b>Extraction Force (Per Contact)</b>	3.0 – 28.3 oz.
<b>Contact Life Cycles</b>	> 100,000
<b>Breakdown Voltage</b>	> 2000V RMS
<b>Dielectric Withstanding Voltage</b>	1500V RMS
<b>Insulation Resistance</b>	> 10 <sup>4</sup> megohms at 500 VDC
<b>Temperature Rating</b>	-55° C to 105° C
<b>Insulator Material</b>	Nylon
<b>Contact</b>	
Material (Pin)	Brass
Material (Socket)	Beryllium copper wires and brass body
<b>Approximate Weight</b>	M: 0.23 oz., F: 0.35 oz.

Dimensions are in inches [mm]

## Ordering Information

Module C&M 25 or 50 Amp Contact Rating	Width: 2 Units • Contacts: 2 Hypertac® Fixed Contacts • Ø 0.138 [3.50]				
	Gender	Termination	Plating	Rating Amps	Part Number
	Female	Solder Cup up to 10 AWG	50µin gold	25	LCFSTA H
		Solder Cup up to 8 AWG		50	LMFSTA H
	Female	Straight Dip Solder	50µin gold	25	LCFDTA H
				50	LMFDTA H
	Empty Block	—	—	—	ZLM002-001 (LCHT)
	Male	Solder Cup up to 10 AWG	10µin gold	25	LCMST
			50µin gold		LCMSTH
		Solder Cup up to 8 AWG	10µin gold	50	LMMST
			50µin gold		LMMSTH
	Male	Straight Dip Solder	10µin gold	25	LCMDT
			50µin gold		LCMDTH
			10µin gold	50	LMMDT
			50µin gold		LMMDTH

File No.: UL E102195

Crimp Termination: “U” modules intermate with “C” and “M” modules.

Plating Reference	
Male Pins:	10µin gold (min) over nickel 50µin gold (min) over nickel
Female Sockets:	50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

**NOTE:**  
If assembling the modules into a frame, two YHD0027 clips are required per module.

Dimensions are in inches [mm]

General Specifications	
<b>Current Rating</b>	C: 25 Amps M: 50 Amps
<b>Contact Resistance</b>	C: < 0.8 mΩ M: 0.40 mΩ
<b>Extraction Force (Per Contact)</b>	C: 4.0 – 32.0 oz. M: 4.0 – 40.0 oz.
<b>Contact Life Cycles</b>	> 100,000
<b>Breakdown Voltage</b>	> 3000V RMS
<b>Dielectric Withstanding Voltage</b>	2250V RMS
<b>Insulation Resistance</b>	> 10 <sup>6</sup> megohms at 500 VDC
<b>Temperature Rating</b>	-55° C to 125° C
<b>Insulator Material</b>	Diallyl-phthalate
<b>Contact</b>	
Material (Pin) (Socket)	Brass Beryllium copper wires and brass body
<b>Approximate Weight</b>	M: 0.44 oz., F: 0.31 oz.

## Ordering Information

<b>Module U</b> 25 or 50 Amp Contact Rating	Width: 2 Units • Contacts: 2 Hypertac® “Snap In” Crimp Contacts • Ø 0.138 [3.50] Can be mounted by itself or in a frame							
	Gender	Wire Gauge	Dimensions		Plating	Rating Amps	Part Number	Replacement Contacts
			ID	OD				
	Female	20-22	0.059 [1.50]	0.122 [3.10]	50µin gold	25	LUF1	YSK035-009AH
		16-18	0.077 [1.95]	0.122 [3.10]	50µin gold	25	LUF2	YSK035-010AH
		12-14	0.112 [2.85]	0.161 [4.10]	50µin gold	25	LUF3	YSK035-011AH
		6	0.217 [5.50]	0.285 [7.25]	50µin gold	50	LUF4	YSK035-030AH
		8-10	0.177 [4.50]	0.217 [5.50]	50µin gold	50	LUF5	YSK035-028AH
	Empty Block	—	—	—	—	—	ZLS002-001 (LUH)	—
	Male	20-22	0.059 [1.50]	0.122 [3.10]	10µin gold	25	LUM1	YPN035-005G
					50µin gold		LUM1H	YPN035-005H
		16-18	0.059 [1.50]	0.122 [3.10]	10µin gold	25	LUM2	YPN035-006G
					50µin gold		LUM2H	YPN035-006H
		12-14	0.112 [2.85]	0.161 [4.10]	10µin gold	25	LUM3	YPN035-007G
					50µin gold		LUM3H	YPN035-007H
		6	0.217 [5.50]	0.285 [7.25]	10µin gold	50	LUM4	YPN035-025RG
					50µin gold		LUM4H	YPN035-025RH
		8-10	0.177 [4.50]	0.217 [5.50]	10µin gold	50	LUM5	YPN035-023RG
					50µin gold		LRM5H	YPN035-023RH

File No.: UL E102195

Solder Cup and Straight Dip Termination:  
“C” and “M” modules intermate with “U” modules.

Accessories	
Crimp Tool	
Style 1, 2, 3, 5 .....	T1264
Style 4 .....	T712
Crimp Positioner:	
Style 1, 2, 3 .....	SP612
Style 4 .....	T758
Style 5 .....	T1559
Insertion/Extraction Tool .....	S0350.01

Plating Reference	
Male Pins:	10µin gold (min) over nickel 50µin gold (min) over nickel
Female Sockets:	50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

General Specifications		
<b>Current Rating</b>	25 or 50 Amps	
<b>Contact Resistance</b>	< 0.8 milliohms	
<b>Extraction Force (Per Contact)</b>	4.0 – 35.0 oz.	
<b>Contact Life Cycles</b>	> 100,000	
<b>Breakdown Voltage</b>	> 2800V RMS	
<b>Dielectric Withstanding Voltage</b>	2100V RMS	
<b>Insulation Resistance</b>	> 10 <sup>4</sup> megohms at 500 VDC	
<b>Temperature Rating</b>	-55° C to 105° C	
<b>Insulator Material</b>	Nylon	
<b>Contact</b>		
Material	(Pin) (Socket)	Brass Beryllium copper wires and brass body
<b>Approximate Weight</b>	M: 0.45 oz., F: 0.29 oz.	

Dimensions are in inches [mm]

## Ordering Information

Module D 8 Amp Contact Rating	Width: 2 Units • Contacts: 17 Hypertac® Fixed Contacts • Ø 0.047 [1.20]			
	Gender	Termination	Plating	Part Number
	Female	Solder Cup Up to 20 AWG	50µin gold	LDFSTAH
	Female	Straight Dip Solder	50µin gold	LDFDTAH
	Empty Block Male	—	—	ZLM017-001 (LDMHT)
	Empty Block Female	—	—	ZLM017-002 (LDFHT)
	Male	Solder Cup Up to 20 AWG	10µin gold	LDMST
			50µin gold	LDMSTH
	Male	Straight Dip Solder	10µin gold	LDMDT
			50µin gold	LDMDTH

File No.: UL E102195

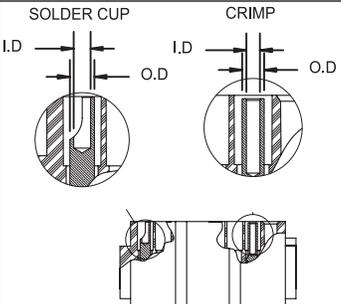
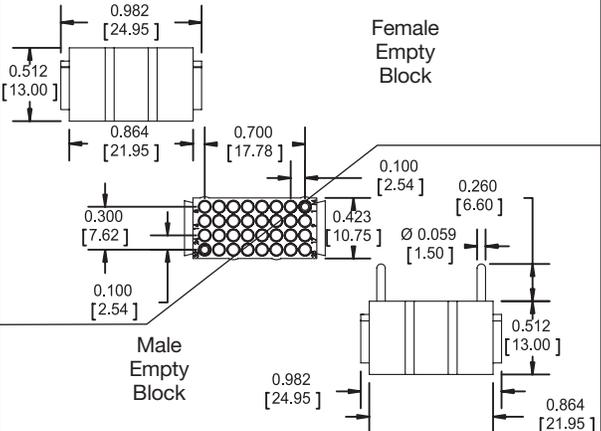
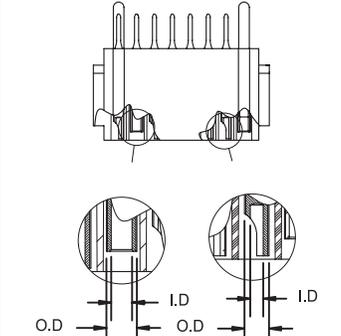
Plating Reference	
Male Pins:	10µin gold (min) over nickel 50µin gold (min) over nickel
Female Sockets:	50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

**NOTE:**  
If assembling the modules into a frame, two YHD0027 clips are required per module.

Dimensions are in inches [mm]

General Specifications	
Current Rating	8 Amps
Contact Resistance	< 3.0 milliohms
Extraction Force (Per Contact)	1.0 – 4.5 oz.
Contact Life Cycles	> 100,000
Breakdown Voltage	> 1800V RMS
Dielectric Withstanding Voltage	1350V RMS
Insulation Resistance	> 10 <sup>6</sup> megohms at 500 VDC
Temperature Rating	-55° C to 125° C
Insulator Material	Diallyl-phthalate
Contact	
Material	(Pin) (Socket)
	Brass Beryllium copper wires and brass body
Approximate Weight	M: 0.31 oz., F: 0.45 oz.

## Ordering Information

Module W 4 Amp Contact Rating	Width: 2 Units • Contacts: 30 Hypertac® Removable Contacts • Ø 0.024 [0.60] Can be mounted by itself or in a frame						
	Gender	Termination	Dimensions		Plating	Part Number	Replacement Contacts
			ID	OD			
	Female	Crimp 18-20 AWG	0.055 [1.39]	0.071 [1.80]	50µin gold	LWFRRTAH	YSK006-089AH
		Crimp 22-26 AWG	0.035 [0.90]	0.051 [1.30]	50µin gold	LWFRTAH	YSK006-011AH
		Solder Cup 26 AWG	0.039 [1.00]	0.057 [1.45]	50µin gold	LWFFSTAH	YSK006-010AH
	Female Empty Block		—	—	—	LWFFH)	—
	Male Empty Block		—	—	—	ZLM030-001 (LWMHT)	—
	Male	Crimp 18-20 AWG	0.055 [1.39]	0.071 [1.80]	10µin gold	LWMRRT	YPN006-158G
					50µin gold	LWMRRTH	YPN006-158H
		Crimp 22-26 AWG	0.035 [0.90]	0.051 [1.30]	10µin gold	LWMRT	YPN006-021G
					50µin gold	LWMRTH	YPN006-021H
		Solder Cup 26 AWG	0.039 [1.00]	0.057 [1.45]	10µin gold	LWMST	YPN006-020G
					50µin gold	LWMSTH	YPN006-020H

### Accessories

Crimp Tool .....	AFM8
Crimp Positioner .....	K547
Insertion Tool .....	S/DEM1.0060
Extraction Tool .....	T1866

### Plating Reference

Male Pins:	10µin gold (min) over nickel 50µin gold (min) over nickel
Female Sockets:	50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

### NOTES:

- 1) Females: Guide holes in position 1 and 32.
- 2) Males: Guide pins in position 1 and 32.
- 3) If assembling the modules into a frame, two YHD0027 clips are required per module.

### General Specifications

<b>Current Rating</b>	4 Amps
<b>Contact Resistance</b>	< 5 milliohms
<b>Extraction Force (Per Contact)</b>	0.5 – 2.0 oz.
<b>Contact Life Cycles</b>	> 100,000
<b>Breakdown Voltage</b>	> 2200 VAC
<b>Dielectric Withstanding Voltage</b>	1650 VAC
<b>Insulation Resistance</b>	10 <sup>9</sup> megohms at 500 VDC
<b>Temperature Rating</b>	-55° C to 125° C
<b>Insulator Material</b>	Polyphethylene sulfide
<b>Contact</b>	
Material	(Pin) (Socket)
	Brass Beryllium copper wires and brass body

Dimensions are in inches [mm]

## Ordering Information

Module V Coax	Width: 1.5 Units • Contacts: 3 Hypertac® Contacts (on both signal and ground) Can be both mounted by itself or in a frame			
	Gender	Termination	Part Number	Replacement Contacts
	Female	Crimp Coaxial for RG316	LVFRTAH	YCX0315-002AH
		Crimp Coaxial for RG316DB	LVFR1TAH	YCX0315-019AH
	Female	Solder Coaxial for RG405 or T-Flex 405	LVFSTAH	YCX0315-001AH
	Male	Crimp Coaxial for RG316	LVMRH	YCX0315-004H
		Crimp Coaxial for RG316DB	LVMR1TH	YCX0315-018H
	Male	Solder Coaxial for RG405 or T-Flex 405	LVMSTH	YCX0315-003H

File No.: UL E102195

Accessories
<b>For Inner Conduction Crimping</b>
Crimp Tool: ..... AFM8
Crimp Positioner: ..... T1957
<b>For Outer Conduction Crimping</b>
Crimp Tool: ..... HX3
Die Set: ..... T1958 or T2019 for RG316DB
<b>Contact Removal Tool:</b> ..... T1982

Cabling Instructions			
	Crimp (R) and (R1)	Solder (S)	
<b>Cable</b>	RG315 and RG316DB	RG405	T-Flex 405
<b>Socket</b>	S50302	S50301	S50307
<b>Pin</b>	S50304	S50303	S50308
Please request specs from our customer service department.			

Dimensions are in inches [mm]

General Specifications COAXTAC™	
<b>Nominal Impedance</b>	50 ohms
<b>Frequency Range</b>	DC 3 GHz with RG316 DC 18 GHz with RG405
<b>Temperature Rating</b>	-55° C to 125° C
<b>Materials</b>	Brass, beryllium copper PTFE Fluorocarbon
<b>Finishes</b>	Center Contacts and Housings Wire Gold over nickel over copper Gold over nickel
<b>Electrical</b> (Based on RG405 Semi Rigid Cable)	Voltage Standing Wave Ratio RF Transmission Loss Insulation Resistance Dielectric Withstanding Voltage
	(DC to 3 GHz) 1.20:1 max. (3 GHz to 18 GHz) 1.50:1 max. 0.50 dB at 18 GHz 5,000 megohms min. 500V RMS
<b>Contact Resistance</b>	Inner Contact Outer Contact
	8 milliohms max. 2 milliohms max.
<b>Mechanical</b>	Extraction Force Per Contact Connector Life Cycles
	1.5 – 6.0 oz. max., 3.0 oz. average > 25,000 cycles

## Ordering Information

<b>Module V</b> <b>25 Amp Power</b>	Width: 1.5 Units • Contacts: 3 Hypertac® Contacts Can be mounted by itself or in a frame			
	Gender	Termination	Part Number	Replacement Contacts
	Female	Crimp 25 Amps (Free Air) 17 Amps (Bundled) 12-14 AWG	LVFP1TAH	YSK025-031AH
	Female Empty Block	—	ZLV003-001 (LVFHT)	—
	Male Empty Block	—	ZLV003-002 (LVMHT)	—
	Male	Crimp 25 Amps (Free Air) 17 Amps (Bundled) 12-14 AWG	LVMP1TH	YPN025-024H

File No.: UL E102195

### Accessories

Crimp Tool .....M309  
 Crimp Positioner: .....T1981  
 Extraction Tool .....T1982

### Plating Reference

Male Pins:           10µin gold (min) over nickel  
                           50µin gold (min) over nickel

Female Sockets:    50µin gold (min) over nickel on mating surface,  
                           gold flash over nickel on termination

**NOTE:**  
 Contact shipped unassembled.

General Specifications	
<b>Current Rating</b>	25 Amps (Free Air) 17 Amps (Bundled)
<b>Contact Resistance</b>	< 1.5 milliohms
<b>Extraction Force (Per Contact)</b>	3.0 – 17.0 oz.
<b>Contact Life Cycles</b>	> 100,000
<b>Breakdown Voltage</b>	1600 VAC
<b>Dielectric Withstanding Voltage</b>	1200 VRMS
<b>Insulation Resistance</b>	10 <sup>4</sup> megohms at 500 VDC
<b>Temperature Rating</b>	-55° C to 105° C
<b>Insulator Material</b>	Nylon
<b>Contact</b>	
Material	(Pin) Brass (Socket) Beryllium copper wires and brass body
<b>Approximate Weight</b>	M: 0.32 oz., F: 0.34 oz.

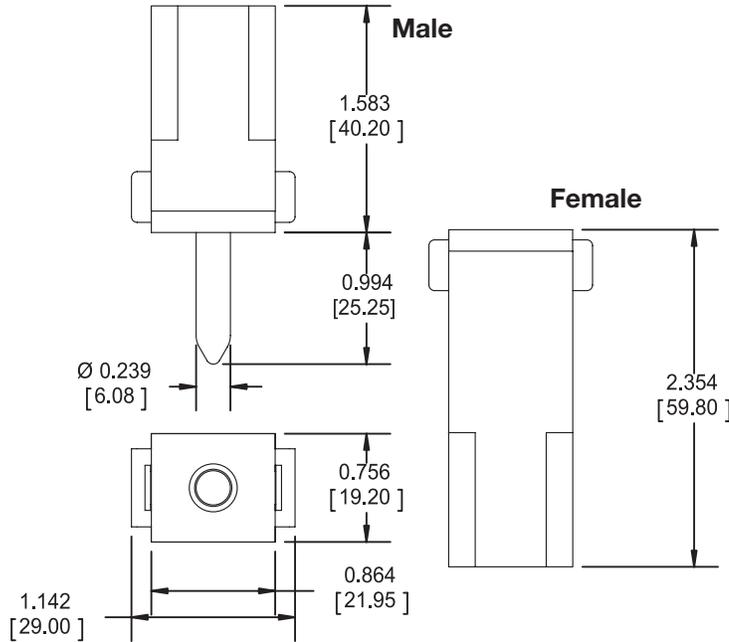
Dimensions are in inches [mm]

**Module G**

Width: 3.5 Units • Contacts: 1 Hypertac® Removable Crimp Contact • Ø 0.239 [6.08] Contact

200 Amp Contact Rating

File No.: UL E102195



Recommended for LEH and LPH Frames only

General Specifications		
<b>Insulators</b>	<b>Module G</b>	<b>Module K</b>
Width	3.5 Units	2.5 Units
Breakdown Voltage	> 1500V RMS	
Dielectric Withstanding Voltage	1100V RMS	
Insulation Resistance	> 10 <sup>9</sup> megohms at 500 VDC	
Insulator Material	Polyphthalamide	
<b>Contacts</b>		
Life Cycle	100,000 Cycles	
Diameter	0.239 [6.08]	0.169 [4.30]
Current Rating	200 amperes	100 amperes
Resistance	< 0.20 milliohms	< 0.35 milliohms
Extraction Force (Per Contact)	80.0 – 160.0 oz.	15.0 – 90.0 oz.
Material (Pin) (Socket)	Copper Beryllium copper wires copper tail; brass body	
Plating Reference	TI = 30µin gold over nickel (pin only) TAH = 50µin gold over nickel on mating surface, gold flash over nickel on termination (sockets only)	
Reference "L" (Strip Length)	0.709 [18.00]	0.591 [15.00]
Barrel I.D.	0.445 [11.30]	0.283 [7.20]
Conductor Size	# 1/0 AWG	# 4 AWG
Replacement Pins	YPN0612-021RI	YPN043-016RI
Replacement Sockets	YSK0612-015AH	YSK043-101AH

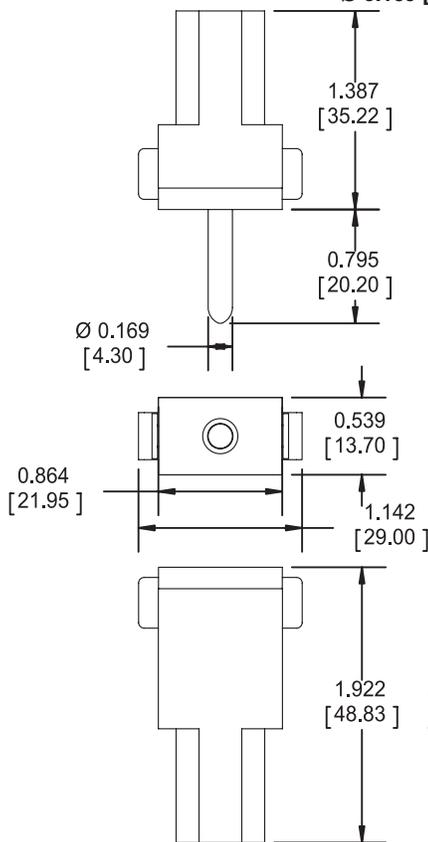
**Module K**

• Width: 2.5 Units  
• Contacts: 1 Hypertac® Removable Crimp Contact  
• Ø 0.169 [4.30] Contact

100 Amp Contact Rating

**Male**

File No.: UL E102195



**Female**

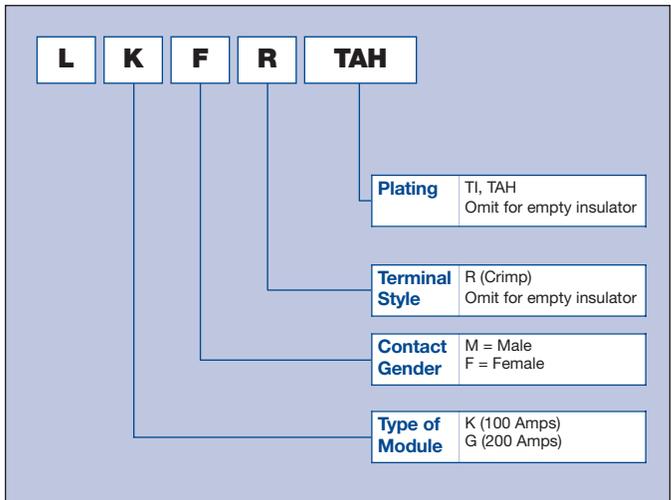
Recommended for LEH and LPH Frames only

Accessories		
Crimp Tool	T1501	T1501
Mounting Bracket	T1551	T1551
Crimp Positioner	T1536	T1535
Extraction Tool	T1500	T1507

**NOTES:**  
1) Contacts shipped unassembled.  
2) Approved for 180 Amps by CSA for 30° C temperature rise.

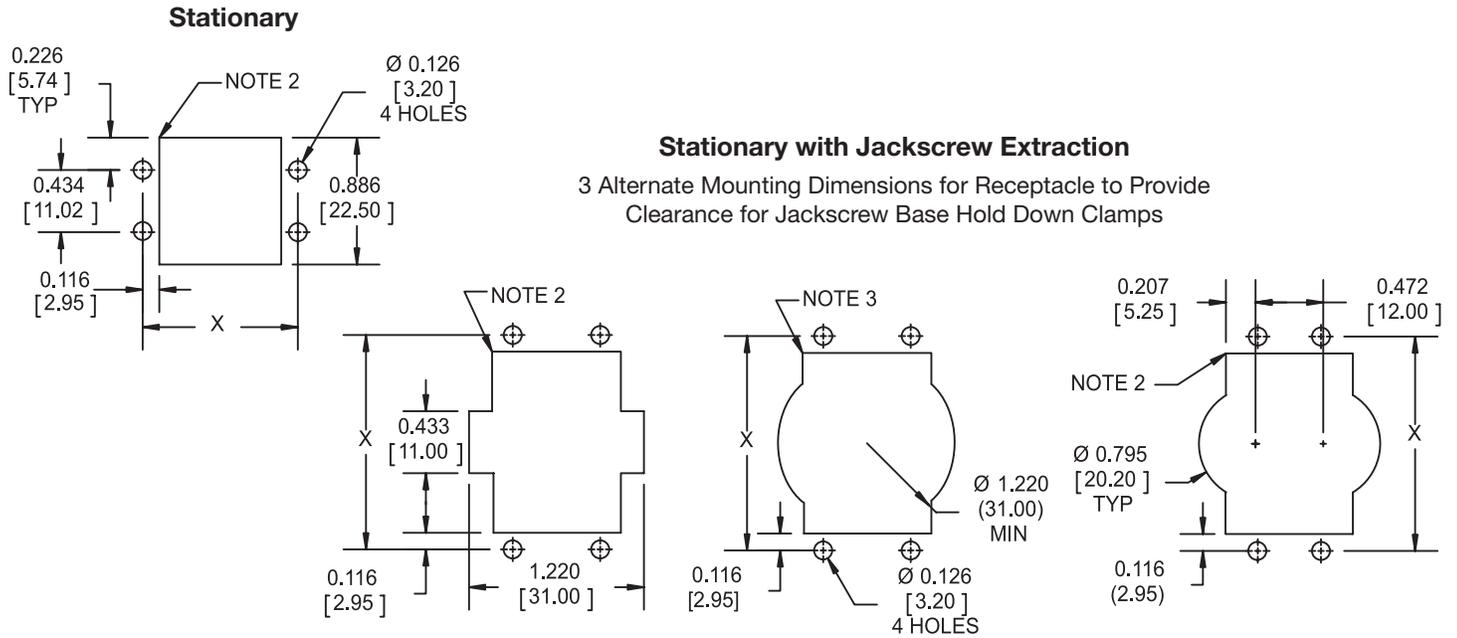
Dimensions are in inches [mm]

**Ordering Information**

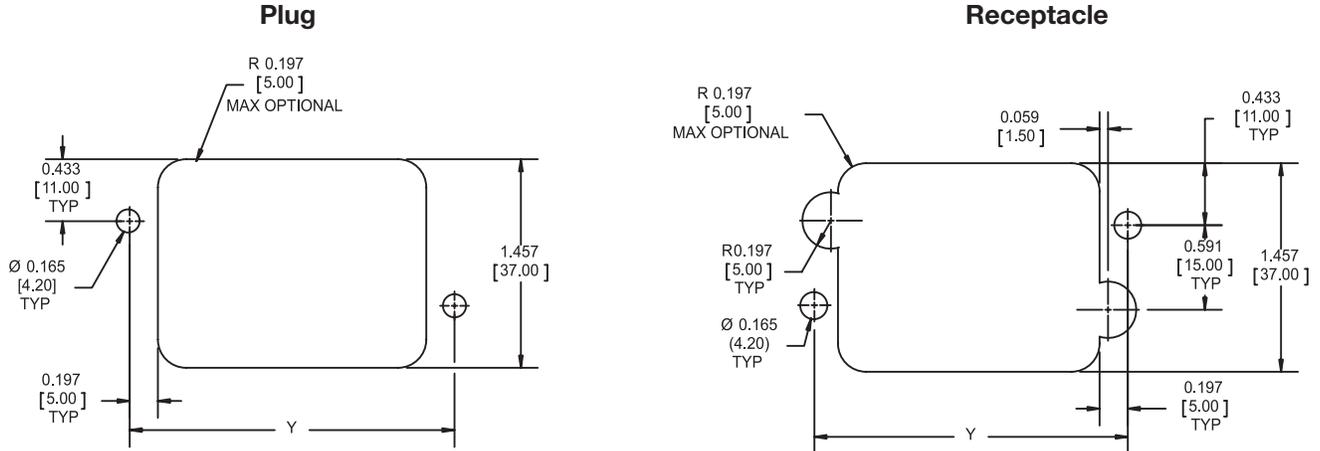


## Mounting Dimensions

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



## For Frame Type H (Float Mounting)



## Mounting Dimensions

Units	4	5	6	7	8	9	10	11	12	13
X	1.122 [28.50]	1.338 [34.00]	1.555 [39.50]	1.771 [45.00]	1.988 [50.50]	2.205 [56.00]	2.421 [61.50]	2.638 [67.00]	2.854 [72.50]	3.070 [78.00]
Y	1.969 [50.00]	2.185 [55.50]	2.402 [61.00]	2.618 [66.50]	2.835 [72.00]	3.051 [77.50]	3.268 [83.00]	3.484 [88.50]	3.701 [94.00]	3.917 [99.50]

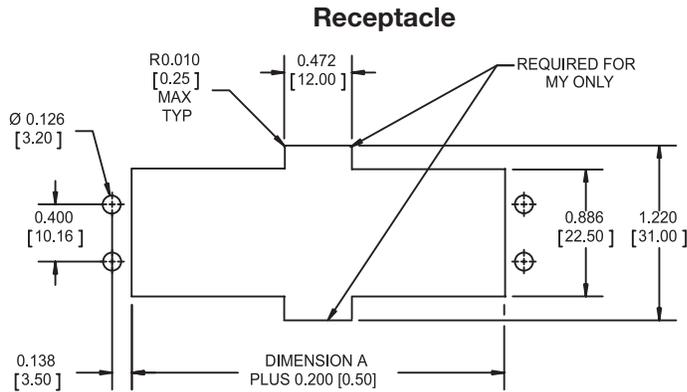
Units	14	15	16	17	18	19	20	21	22
X	3.287 [83.50]	3.504 [89.00]	3.720 [94.50]	3.936 [100.00]	4.153 [105.50]	4.370 [111.00]	4.586 [116.50]	4.803 [122.00]	5.019 [127.50]
Y	4.134 [105.00]	4.350 [110.50]	4.567 [116.00]	4.784 [121.50]	5.00 [127.00]	5.217 [132.50]	5.433 [138.00]	5.650 [143.50]	5.866 [149.00]

**NOTES:**

- 1) 59.0 oz. in torque for mounting.
- 2) 0.010 [0.25] maximum radius typical.

Dimensions are in inches [mm]

## Mounting Dimensions For Frame Types MV and MY



Number of Units	Dimension A
12	2.598 [66.00]
15	3.248 [82.50]
20	4.331 [110.00]
22	4.764 [121.00]

The L Series connectors are engineered for quick and easy use. Standard frames will be shipped completely assembled with the selected modules mounted.

### Ordering Information<sup>1</sup>

The length of the frame is computed by multiplying the module units buy the module quantity and totaling the results. If half unit spacers are required order LFH1 (Delete "L" in assembly part number).

L
P
J
8
/
4
AMST
/
2CHT
/
TG
SC15
L

**Insulator** P = Plug  
E = Receptacle

**Frame Type** A, B, BV, BY, H, J, JV, JY, MV, MY, MMY, K, KV, KY, R, RV and RY

**Length of Frames** 4 to 20 units<sup>2</sup>. Allow 2 additional units when ordering frames with Jackscrews (BV, JV, KV, MV, MY, RV). Up to 30 units are available – consult factory.

**Number of Modules**

Module combination by quantity (Refer to product page for type of module and terminal style, etc. using above outline as sample only). Module will be positioned in frame according to sequence listed.

Modules R, S, and U can be combined with other module types using special adaptors – consult factory.

**Plating** TG = 10µin gold over nickel  
TH = 20µin gold over nickel  
TAH = 50µin gold over nickel on mating surface, gold flash over nickel on termination  
This represents plating for all the modules in the connector. When mixing platings consult factory.

**Cable Clamp Location** L = Left  
R = Right  
F = Front  
B = Back  
Omit for default location:  
J and JV frames = Top  
K and KV frames = Front  
MV and MY frames = As shown only

**Cable Clamp and Cable Size<sup>3</sup>:**

	Max. diameter	Min. diameter
10	0.394 [10.00]	0.210 [5.35]
15	0.590 [15.00]	0.385 [9.75]
20	0.787 [20.00]	0.605 [15.25]
24	0.945 [24.00]	0.670 [17.00]

**NOTES:**

- 1) When 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) There may be some limitations on cable clamp sizes in connectors of shorter length. Consult factory.

Dimensions are in inches [mm]



N Series mini-modular connectors employ a do-it-yourself system based on the building block principle. They offer a variety of combinations available in a single connector frame. Thus, the user is capable of selecting the connector that fulfills exact requirements with off-the-shelf components.

In this application, the low insertion and extraction forces of the Hypertac contact technology enable the user to assemble large numbers of contacts in a single connector that mates and unmates smoothly and easily.

N Series connectors can be built for the following:

- Rack and panel applications
  - Standard
  - With keying system
  - With locking system
  - With floating mounting
- Cable applications
  - Hooded with rounded or flat cable security clamps
  - With Jackscrews
- Programming applications

The system is composed of two basic elements: module and frames.

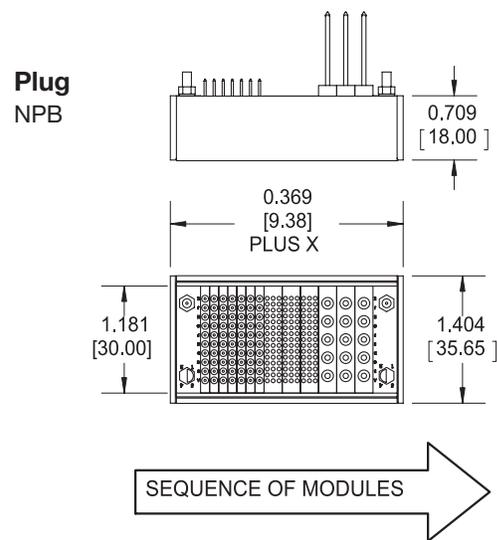
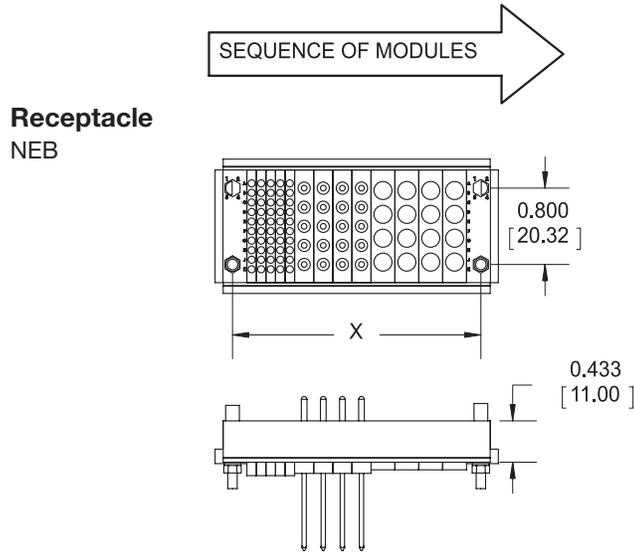
Modules are the connector elements of the system. Two types of contacts are available: signal and power. The contacts are housed in small plastic blocks. All contacts are removable for easy assembly and repair. The width of each module block is designated in units.

The frames hold the modules in position. They range from a basic frame consisting of two side rails and two end caps to more complex versions with Jackscrews, hoods and cable clamps. All frames are available in various lengths to conform to almost any combination of modules. Although any length is possible, Hypertronics suggests ordering one of the standard lengths for optimum delivery and price.

With the N Series, specially designed connectors can be purchased quickly and inexpensively, eliminating the extra cost and delay of custom tooling.

## Frame B up to 775 contacts

- Single row, rack and panel with keying
- Built-in pin protection
- 36 possible keying arrangements
- Standard sizes: 7, 11, 15, 19, 23, 27, 31 and 35 unit lengths
- Up to 35 contacts on 0.100 x 0.100 [2.54 x 2.54] centers



Units	7	11	15	19	23	27	31	35
<b>X</b>	1.000 [25.40]	1.400 [35.56]	1.800 [45.72]	2.200 [55.88]	2.600 [66.04]	3.000 [76.20]	3.400 [86.36]	3.800 [96.52]

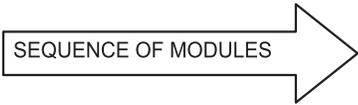
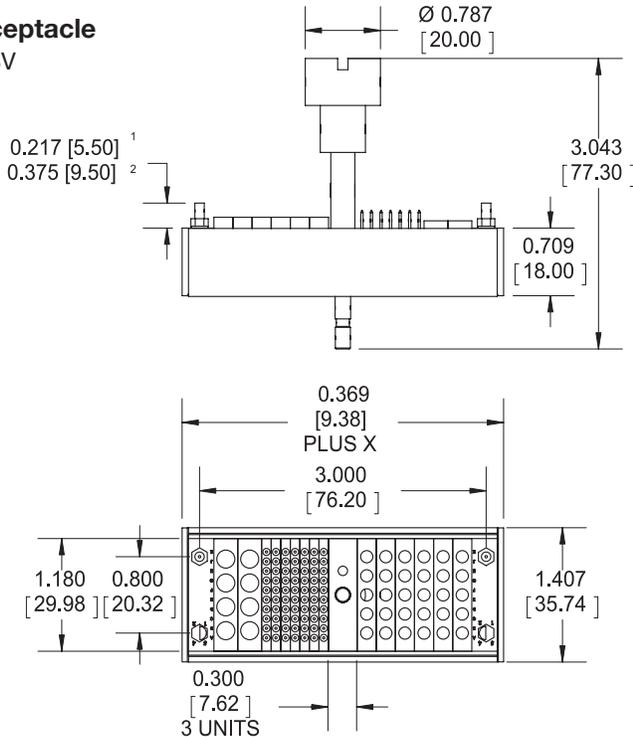
**NOTE:**  
1) Frames shown at 50 percent scale.

Dimensions are in inches [mm]

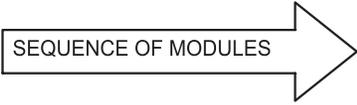
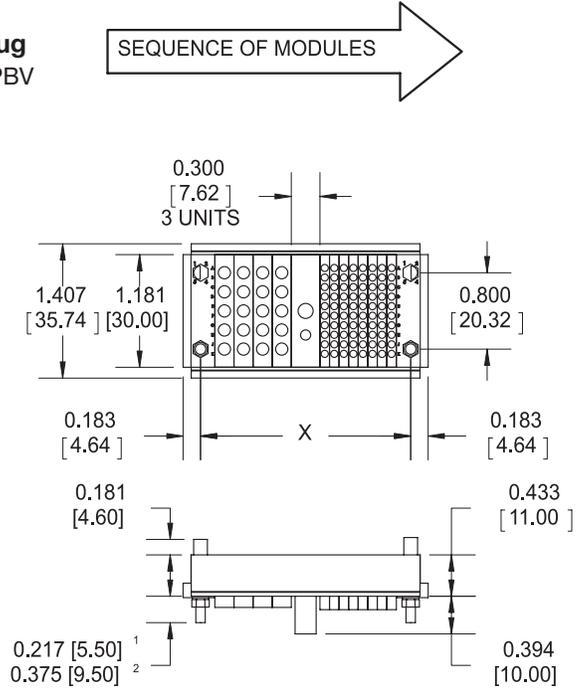
**Frame BV up to 720 contacts**

- Jackscrew extractor
- 36 possible keying arrangements
- Accepts 22 to 28 AWG wires
- Single row, rack and panel with keys
- Standard sizes: 7, 11, 15, 19, 23, 27, 31 and 35 unit lengths
- Up to 320 contacts on 0.100 x 0.100 [2.54 x 2.54] centers
- Built-in pin protection
- Allow 3 units for Jackscrew

**Receptacle**  
NEBV



**Plug**  
NPBV



Units	7	11	15	19	23	27	31	35
<b>X</b>	1.000 [25.40]	1.400 [35.56]	1.800 [45.72]	2.200 [55.88]	2.600 [66.04]	3.000 [76.20]	3.400 [86.36]	3.800 [96.52]

**NOTES:**

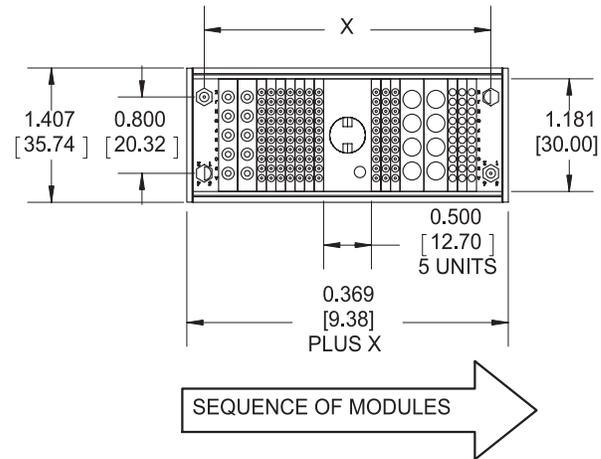
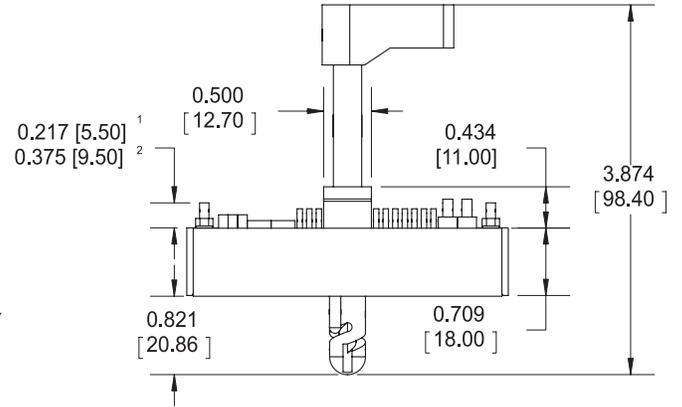
- 1) Standard length for printed circuit boards.
- 2) For thicker chassis specify longer studs with modification 470.
- 3) Frames shown at 50 percent scale.

Dimensions are in inches [mm]

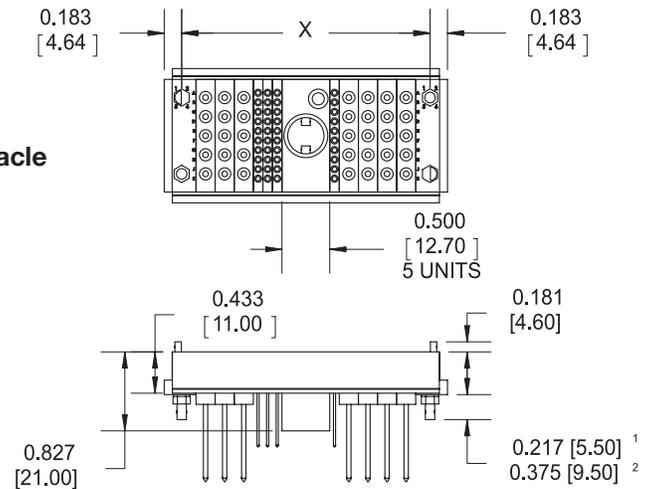
## Frame BY up to 900 contacts

- 180° quick turn jack provides greater than 15,000 mating cycles
- Great for test equipment, burn-in stands, security systems, and medical equipment
- Less than 1 second mating/unmating operation
- Crimp, solder cup, dip solder, and Wire Wrap® terminations
- Wiping action pin and sockets
- Provides 20 to 400 contacts in a single mating
- 4 or 9 ampere contacts mixed to your needs
- Built-in pin protection
- Standard frame sizes: 11, 15, 19, 23, 27, 31, 35 and 45 unit lengths

**Plug**  
NPBY



**Receptacle**  
NEBY



Units	11	15	19	23	27	31	35	45
X	1.400 [35.56]	1.800 [45.72]	2.200 [55.88]	2.600 [66.04]	3.000 [76.20]	3.400 [86.36]	3.800 [96.52]	4.800 [121.92]

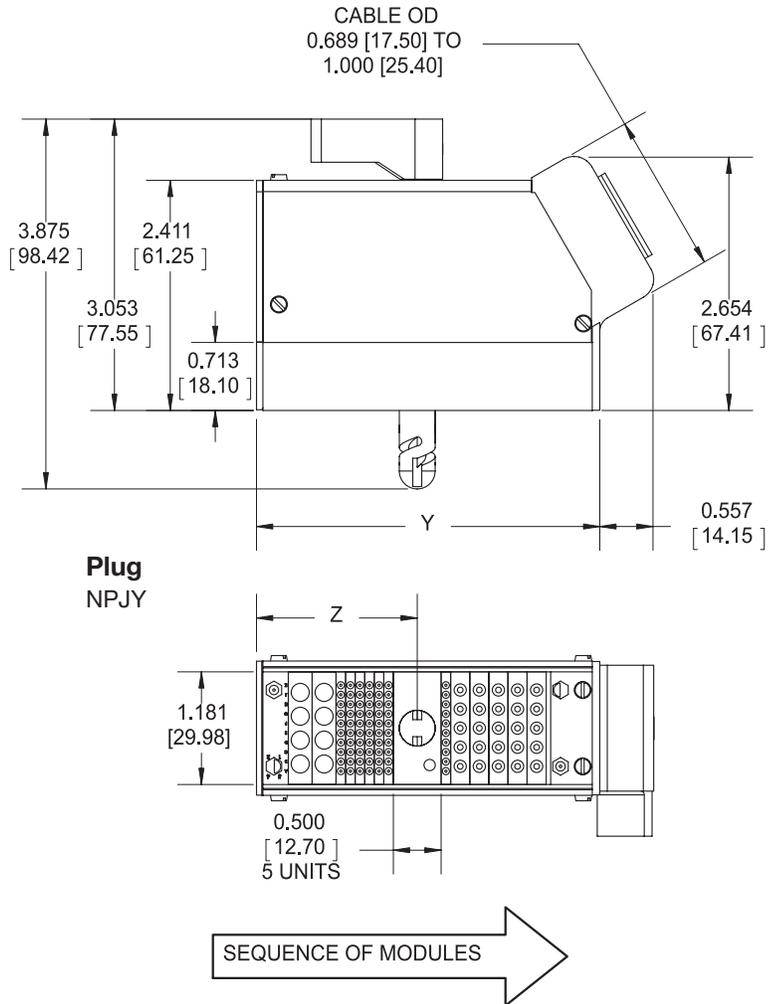
**NOTES:**

- 1) Standard length for printed circuit boards.
- 2) For thicker chassis specify longer studs with modification 479.
- 3) Protective dust cover part number: ZMP0025-XX (XX = number of units).
- 4) Frames shown at 50 percent scale.

Dimensions are in inches [mm]

## Frame JY up to 900 contacts

- 180° quick turn jack provides greater than 15,000 mating cycles
- Great for test equipment, burn-in stands, security systems, and medical equipment
- Less than 1 second mating/unmating operation
- Crimp, solder cup, dip solder, and Wire Wrap® terminations
- Wiping action pin and sockets
- Provides 20 to 400 contacts in a single mating
- 4 or 9 ampere contacts mixed to your needs
- Built-in pin protection
- Standard frame sizes: 11, 15, 19, 23, 27, 31, 35 and 45 unit lengths
- Adjustable Cable Clamp: 0.452 [11.50] to 1.260 [32.00]



Units	11	15	19	23	27	31	35	45
Y	1.993 [50.64]	2.393 [60.80]	2.794 [70.96]	3.194 [81.12]	3.594 [91.28]	4.000 [101.44]	4.393 [111.60]	5.400 [137.16]
Z	0.884 [22.47]	1.084 [27.55]	1.284 [32.63]	1.484 [37.71]	1.684 [42.79]	1.884 [47.87]	2.084 [52.95]	2.500 [63.50]

**NOTES:**

- 1) Frame JY mates with NEBY.
- 2) Protective dust cover part number: ZMP0025-XX (XX = number of modules).
- 3) Frames shown at 50 percent scale.

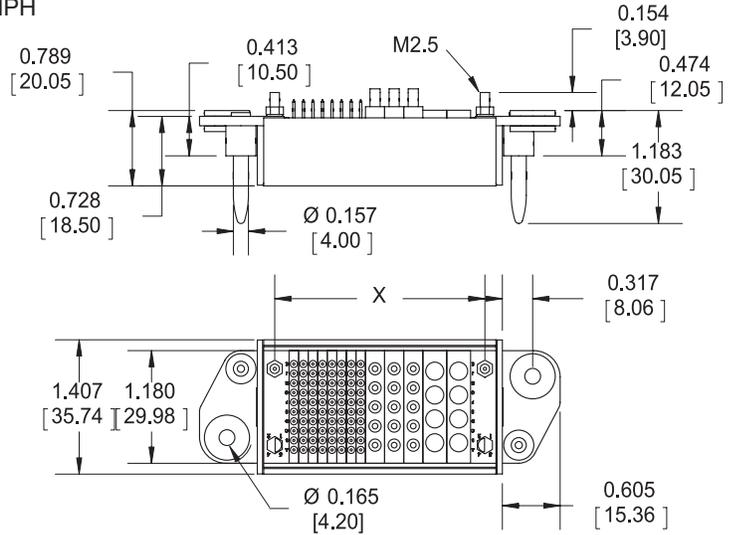
Dimensions are in inches [mm]

## Frame H up to 775 contacts

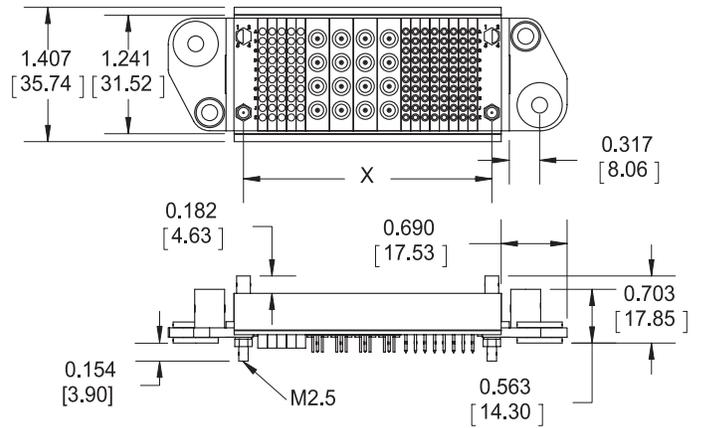
- Float mounting with heavy duty guides
- Max. radial play 0.049 [1.254] from centers
- Single row, rack and panel with keying
- Built-in pin protection
- 36 possible keying combinations
- Standard sizes: 7, 11, 15, 19, 23, 27, 31 and 35 unit lengths
- Up to 350 contacts on 0.100 x 0.100 [2.54 X 2.54] centers

File No.: E102195

### Plug NPH



### Receptacle NEH



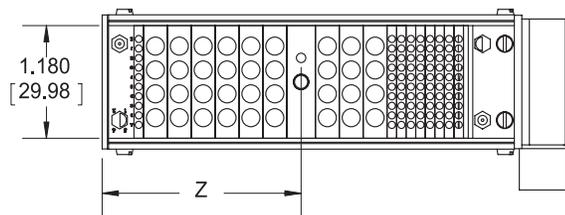
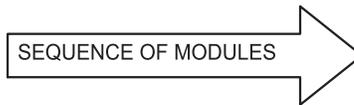
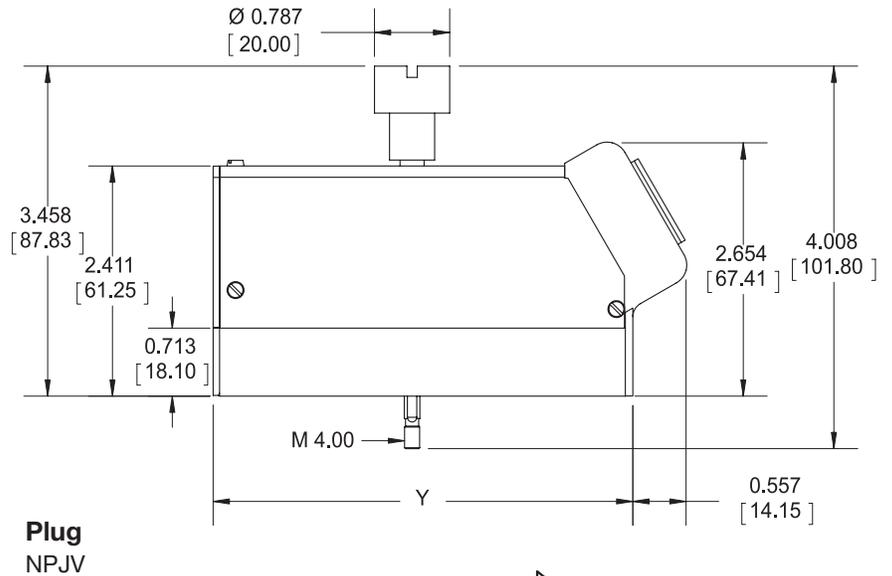
Units	11	15	19	23	27	31	35
X	1.400 [35.56]	1.800 [45.72]	2.200 [55.88]	2.600 [66.04]	3.000 [76.20]	3.400 [86.36]	3.800 [96.52]

**NOTE:**  
Frames shown at 50 percent scale.

Dimensions are in inches [mm]

**Frame JV plug up to 775 contacts**

- Hooded with cable clamp
- Jackscrew extractor
- Single row, rack and panel with keying
- Built-in pin protection
- 36 possible keying combinations
- Standard sizes: 11, 15, 19, 23, 27, 31 and 35 unit lengths
- Up to 350 contacts on 2.54 x 2.54 centers
- Jackscrew uses 3 units
- Adjustable cable clamp will hold 80 to 320 conductors of 22 to 28 AWG; adjusts 0.452 to 1.260 [11.50 to 32.00] min.
- Up to 320 contacts on 0.100 x 0.100 [2.54 x 2.54] centers



Units	11	15	19	23	27	31	35
<b>Y</b>	1.993 [50.64]	2.393 [60.80]	2.794 [70.96]	3.194 [81.12]	3.594 [91.28]	4.000 [101.44]	4.393 [111.60]
<b>Z</b>	0.884 [22.47]	1.084 [27.55]	1.284 [32.63]	1.484 [37.71]	1.684 [42.79]	1.884 [47.87]	2.084 [52.95]

**NOTES:**  
 1) Frame JV mates with NEBV or NEPJY.  
 2) Protective dust cover part number: YHD0369-XX (XX = number of units).  
 3) Frames shown at 50 percent scale.

Dimensions are in inches [mm]

## Module H

Width: 2 Units • Contacts: 45 Crimp Contacts • Ø 0.016 [0.40] Contact

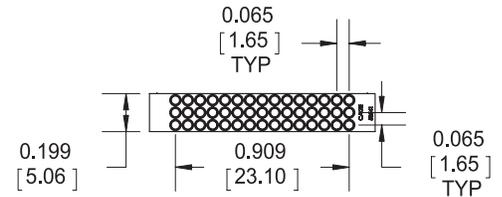
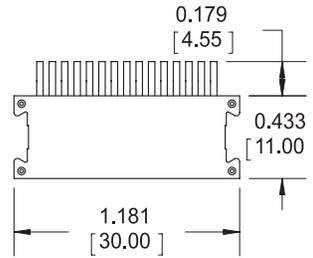
### Replacement Contacts:

- Crimp 26-28 AWG
- Wire strip length: 0.122 [3.10]
- Male pin: YPN004-010H
- Female socket: YSK004-020AH

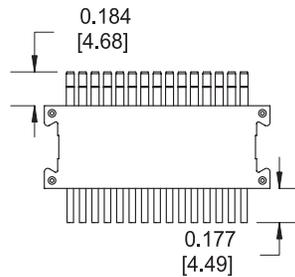
### Accessories

- Crimp tool: AFM8 or M22520/2-01
- Crimp positioner: Socket = T1974  
Pin: = T1973
- Insertion tool: T1970

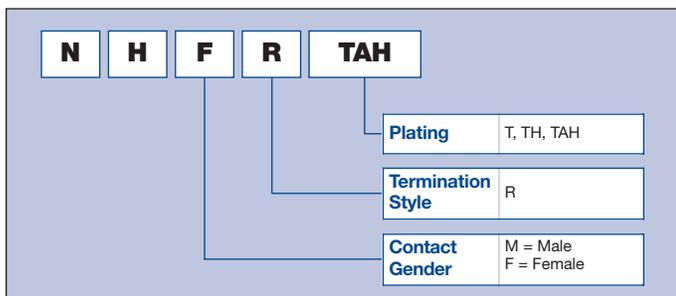
### Male



### Female



## Ordering Information



### General Specifications

<b>Current Rating</b>	1 Amp
<b>Contact Resistance</b>	< 8 milliohms
<b>Extraction Force (Per Contact)</b>	0.3 – 1.6 oz.
<b>Contact Life Cycles</b>	100,000
<b>Breakdown Voltage</b>	> 750V RMS
<b>Dielectric Withstanding Voltage</b>	> 500V RMS
<b>Insulation Resistance</b>	> 10 <sup>3</sup> megohms at 500 VDC
<b>Temperature Rating</b>	-55° C to 125 °C
<b>Insulator</b>	Nylon, 25% glass
<b>Contact Material:</b> (Pin) (Socket)	Phosphor bronze Beryllium copper wires and brass body
<b>Plating Reference</b>	T = 10µin gold (min) over nickel TH = 50µin gold (min) over nickel TAH = 50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

### NOTES:

- 1) For empty block, order ZNH045-001.
- 2) Male contacts are shrouded in the insulator, female mounts in the plug frame are suggested.
- 3) Crimp contacts will be shipped unassembled.

Dimensions are in inches [mm]

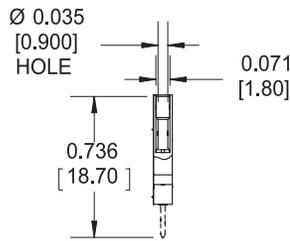
## Module K

Width: 1 Unit • Contacts: 10 Hypertac® Removable Signal Contacts • Ø 0.024 [0.60] Contact

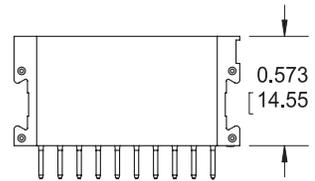
### Termination Style

#### Ref. H2

- Double crimp 22 AWG wire
- Stripped back 0.146 [3.70]
- Male pin: YPN006-019
- Female socket: YSK006-009

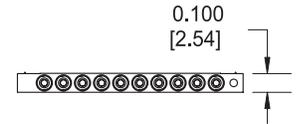
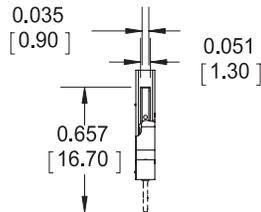


#### Male



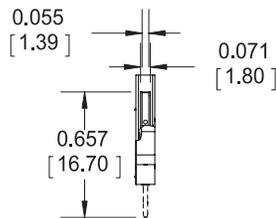
#### Ref. R

- Crimp 22 AWG wire
- Stripped back 0.173 [4.40]
- Male pin: YPN006-021
- Female socket: YSK006-011ANH
- Dimension A: Ø 0.035 [0.90]
- Dimension B: Ø 0.051 [1.30]

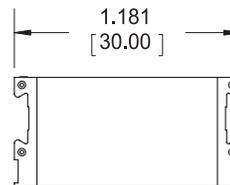


#### Ref. RR

- Crimp 18-20AWG wire
- Stripped back 0.173 [4.40]
- Male pin: YPN006-158
- Female socket: YSK006-089
- Dimension A: Ø 0.055 [1.39]
- Dimension B: Ø 0.71 [1.80]

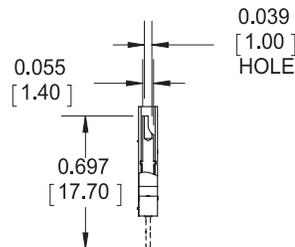


#### Female



#### Ref. S

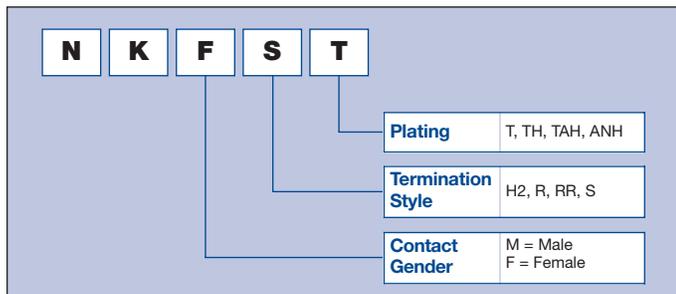
- Solder cup 22 AWG
- Male pin: YPN006-020
- Female socket: YSK006-010



### Accessories

- Crimp tool: AFM8
- Crimp positioner: K547
- Extraction tool: S/DEM1.0060

## Ordering Information



#### NOTES:

- 1) For empty block, order ZNK010-001.
- 2) Contacts will be shipped unassembled.
- 3) Crimping instructions: Doc. number 550063.

General Specifications	
<b>Current Rating</b>	4 Amps
<b>Contact Resistance</b>	< 5 milliohms
<b>Extraction Force (Per Contact)</b>	0.5 – 2.0 oz.
<b>Contact Life Cycles</b>	100,000
<b>Breakdown Voltage</b>	> 1400V RMS
<b>Dielectric Withstanding Voltage</b>	> 1050V RMS
<b>Insulation Resistance</b>	> 10 <sup>5</sup> megohms at 500 VDC
<b>Temperature Rating</b>	-55° C to 105° C
<b>Insulator</b>	Glass filled nylon
<b>Contact Material:</b> (Pin) (Socket)	Phosphor bronze Beryllium copper wires and brass body
<b>Plating Reference</b>	Male Pins: T = 10µin gold over nickel TH = 50µin gold over nickel Female Sockets: TAH = 50µin gold over nickel on mating surface, gold flash over nickel on termination ANH = 50µin gold over nickel on mating surface, nickel over copper flash on socket body components, gold flash over nickel on termination

Dimensions are in inches [mm]

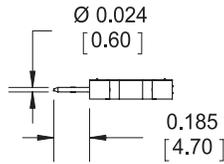
## Module P

Width: 1 Unit • Contacts: 10 Hypertac® Removable Signal Contacts • Ø 0.024 [0.60] Contact

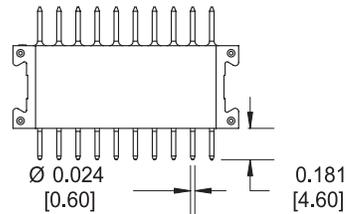
### Termination Style

#### Ref. D

- Straight solder dip
- Male pin: YPN006-047H
- Female socket: YSK006-032ANH

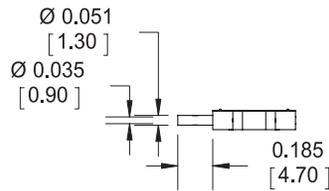


#### Male



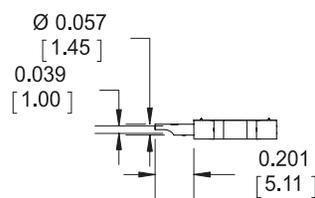
#### Ref. R

- Crimp 22 to 26 AWG
- Stripped back 0.173 [4.40]
- Male pin: YPN006-025H
- Female socket: YSK006-015ANH

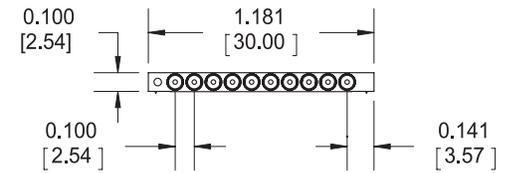


#### Ref. S

- Solder cup up to 22 AWG
- Stripped back 0.118 [3.00]
- Male pin: YPN006-026H
- Female socket: YSK006-016ANH

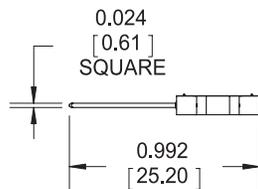


#### Female



#### Ref. Y

- Wire Wrap®
- Male pin: YPN006-046H
- Female socket: YSK006-031AH

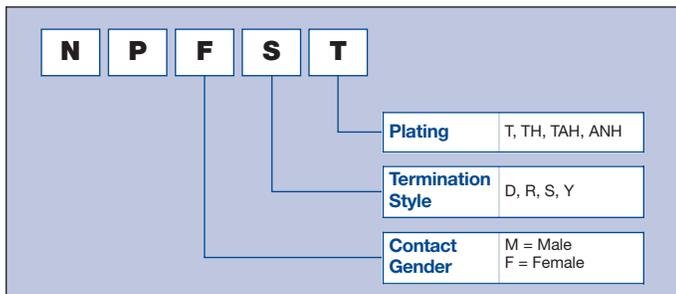


### Accessories

- Crimp tool: AFM8
- Crimp positioner: K623
- Extraction tool: S/DEM1.0060

File No.: UL E102195

## Ordering Information



#### NOTES:

- 1) For empty block, order ZNP010-001.
- 2) Contacts will be shipped unassembled.
- 3) Crimping instructions: Doc. number 550063.

Dimensions are in inches [mm]

### General Specifications

<b>Current Rating</b>	4 Amps
<b>Contact Resistance</b>	< 5 milliohms
<b>Extraction Force (Per Contact)</b>	0.5 – 2.0 oz.
<b>Contact Life Cycles</b>	100,000
<b>Breakdown Voltage</b>	> 1400V RMS
<b>Dielectric Withstanding Voltage</b>	> 1050V RMS
<b>Insulation Resistance</b>	> 10 <sup>3</sup> megohms at 500 VDC
<b>Temperature Rating</b>	-55° C to 105° C
<b>Insulator</b>	Glass filled nylon
<b>Contact Material:</b> (Pin) (Socket)	Brass Beryllium copper wires and brass body
<b>Plating Reference</b>	Male Pins: T = 10µin gold over nickel TH = 50µin gold over nickel Female Sockets: TAH = 50µin gold over nickel on mating surface, gold flash over nickel on termination ANH = 50µin gold over nickel on mating surface, nickel over copper flash on socket body components, gold flash over nickel on termination

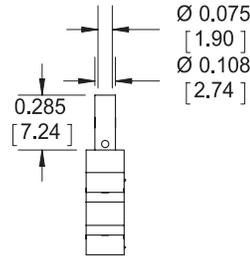
## Module T

Width: 2 Units • Contacts: 5 Hypertac® Removable Signal Contacts • Ø 0.059 [1.50] Contact

### Termination Style

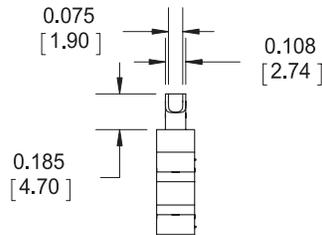
#### Ref. R

- Crimp 14, 16, 18 and 20 AWG
- Wire stripped back 0.285 [7.20]
- Male pin: YPN015-016H
- Female socket: YSK015-025AH



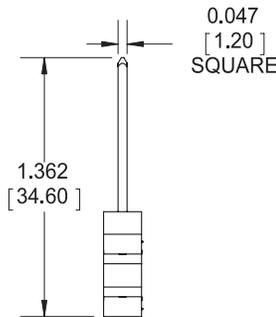
#### Ref. S

- Solder cup up to 13 AWG
- Male pin: YPN015-017H
- Female socket: YSK015-026AH



#### Ref. V

- Wire Wrap®
- Male pin: YPN015-018H
- Female socket: YSK015-027AH

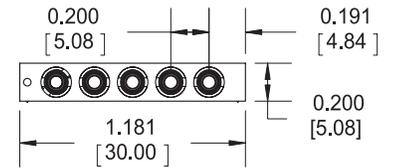
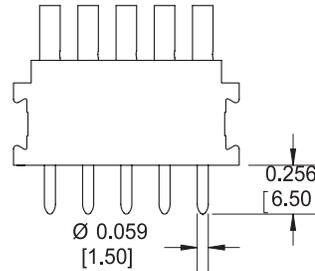


### Accessories

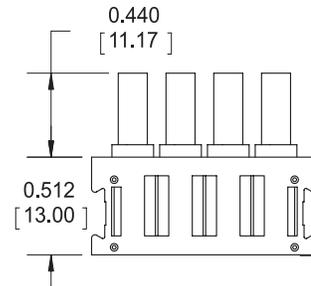
- Crimp tool: AFM8
- Crimp positioner: TP687
- Extraction tool: S/DEM5.0150

File No.: UL E102195

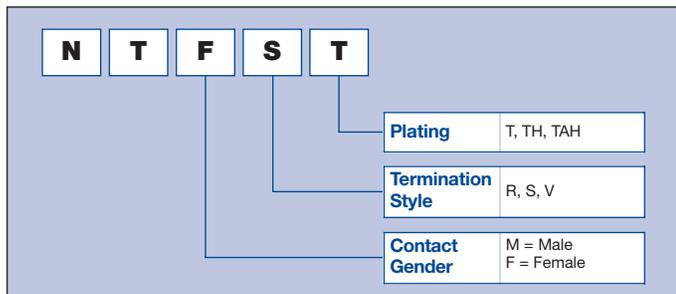
### Male



### Female



## Ordering Information



#### NOTES:

- 1) For empty block, order ZNT005-001.
- 2) Crimp contacts will be shipped unassembled.
- 3) Wire Wrap is a trademark of Gardner Denver.

### General Specifications

<b>Current Rating</b>	9 Amps
<b>Contact Resistance</b>	< 2.5 milliohms
<b>Extraction Force (Per Contact)</b>	0.7 – 5.0 oz.
<b>Contact Life Cycles</b>	100,000
<b>Breakdown Voltage</b>	> 2000V RMS
<b>Dielectric Withstanding Voltage</b>	> 1500V RMS
<b>Insulation Resistance</b>	> 10 <sup>5</sup> megohms at 500 VDC
<b>Temperature Rating</b>	-55° C to 105° C
<b>Insulator</b>	Glass filled nylon
<b>Contact Material:</b> (Pin) (Socket)	Brass Beryllium copper wires and brass body
<b>Plating Reference</b>	T = 10µin gold (min) over nickel TH = 50µin gold (min) over nickel TAH = 50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

Dimensions are in inches [mm]

### Ordering Information

Module V Coax	Width: 2.5 Units • Contacts: 4 Hypertac® Contacts (on both signal and ground)			
	Gender	Termination	Part Number	Replacement Contacts
	Female	Crimp Coaxial for RG316	NVFRTAH	YCX0315-002AH
		Crimp Coaxial for RG316DB	NVFR1TAH	YCX0315-019AH
	Female	Solder Coaxial for RG405 or T-Flex 405	NVFSTA H	YCX0315-001AH
	Male	Crimp Coaxial for RG316	NVMRTH	YCX0315-004H
		Crimp Coaxial for RG316DB	NVMR1TH	YCX0315-018H
	Male	Solder Coaxial for RG405 or T-Flex 405	NVMSTH	YCX0315-003H
	Female	Straight Dip Coax	NVFDTAH	Fixed Contacts cannot be removed

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Plating Reference	
Male Pins:	H = 50µin gold (min) over nickel
Female Sockets:	AH = 50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

Dimensions are in inches [mm]

Accessories	
<b>For Inner Conduction Crimping</b>	
Crimp Tool:.....	AFM8
Crimp Positioner:.....	T1957
<b>For Outer Conduction Crimping</b>	
Crimp Tool:.....	HX3
Die Set:.....	T1958 for RG316 or T2019 for RG316DB
<b>Contact Removal Tool:</b> .....	T1982

Cabling Instructions			
Crimp (R) and (R1)		Solder (S)	
<b>Cable</b>	RG316 and RG316DB	RG405	T-Flex 405
<b>Socket</b>	S50302	S50301	S50307
<b>Pin</b>	S50304	S50303	S50308
Please request specs from our customer service department.			

 File No.: E102195

General Specifications - COAXTAC™	
<b>Nominal Impedance</b>	50 ohms
<b>Frequency Range</b>	DC 3 GHz with RG316 DC 18 GHz with RG405
<b>Temperature Rating</b>	-55° C to 125° C
<b>Materials</b>	Brass, beryllium copper PTFE Fluorocarbon
Finishes	
<b>Center Contacts and Housings</b>	Gold over nickel over copper
<b>Wire</b>	Gold over nickel
Electrical (based on RG405 Semi Rigid Cable)	
<b>Voltage Standing Wave Ratio</b>	(DC to 3GHz) 1.20:1 max. (3GHz to 18GHz) 1.50:1 max.
<b>RF Transmission Loss</b>	0.50 dB at 18 GHz
<b>Insulation Resistance</b>	5,000 megohms min.
<b>Dielectric Withstanding Voltage</b>	500V RMS
Contact Resistance	
<b>Inner Contact</b>	8 milliohms max.
<b>Outer Contact</b>	2 milliohms max.
Mechanical	
<b>Extraction Force (Per Contact)</b>	1.5 – 6.0 oz. max., 3.0 oz. average
<b>Connector Durability</b>	> 25,000 cycles

Dimensions are in inches [mm]

## Ordering Information

<b>Module V</b> <b>25 Amp Power</b>	Width: 2.5 Units • Contacts: 4 Hypertac® Contacts • Can be mounted by itself or in a frame.			
	Gender	Termination	Part Number	Replacement Contacts
	Female	Crimp 25 Amps (Free Air) 17 Amps (Bundled) 12-14 AWG	NVFP1TAH*	YSK025-031AH
	Female Empty Block	—	NVFH	—
	Male Empty Block	—	NVMH	—
	Male	Crimp 25 Amps (Free Air) 17 Amps (Bundled) 12-14 AWG	NVMP1TH*	YPN025-024H

File No.: E102195

### \* Plating Reference

Male Pins:	H = 50µin gold (min) over nickel
Female Sockets:	AH = 50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

### Accessories

Crimp Tool.....	M309
Crimp Positioner.....	T1981
Extraction Tool.....	T1982

**NOTE:**  
Contacts shipped unassembled.

Dimensions are in inches [mm]

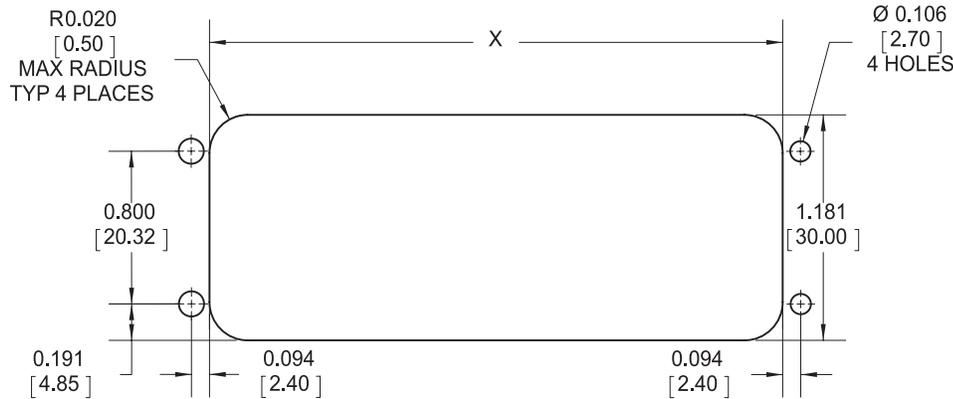
### General Specifications

<b>Current Rating</b> (Bundled)	25 Amps (Free Air) 17 Amps (Bundled)
<b>Contact Resistance</b> (milliohms)	< 1.5 milliohms
<b>Extraction Force</b>	3.0 – 17.0 oz.
<b>Contact Life Cycles</b>	100,000
<b>Breakdown Voltage</b>	> 1600V RMS
<b>Dielectric Withstanding Voltage</b>	1200V RMS
<b>Insulation Resistance</b>	> 10 <sup>4</sup> megohms at 500 VDC
<b>Temperature Rating</b>	-55° C to 105° C
<b>Insulator Material</b>	Nylon
<b>Contact Material</b>	Beryllium copper wires and brass
<b>Approximate Weight</b>	M: 0.32 oz., F: 0.34 oz.

## Mounting Dimensions

### For Single Row Frame

Frames: B, BV, BY, JV and JY

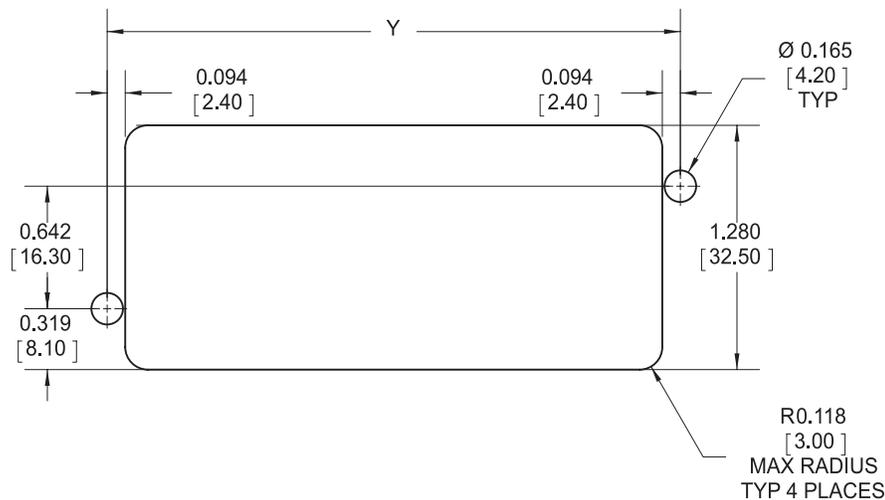


Mounting Dimensions		
Frame Units	X	Y
9	1.000 [25.40]	5.800 [147.32]
11	1.400 [35.65]	5.800 [147.32]
15	1.800 [45.72]	5.800 [147.32]
19	2.200 [55.88]	5.800 [147.32]
23	2.600 [66.04]	5.800 [147.32]
27	3.000 [76.20]	5.800 [147.32]
31	3.400 [86.36]	5.800 [147.32]
35	3.800 [96.52]	5.800 [147.32]
45	4.800 [121.92]	5.800 [147.32]

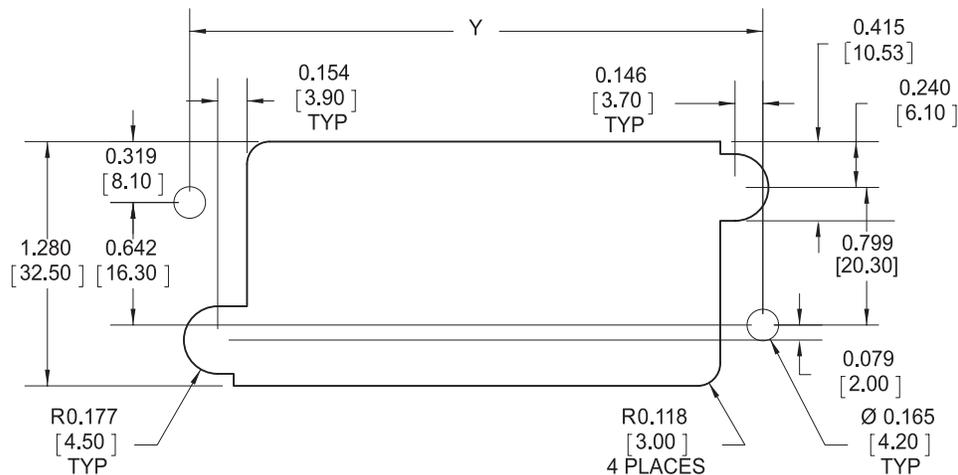
### Frame H

Float Mounting

#### Plug



#### Receptacle



**NOTES:**

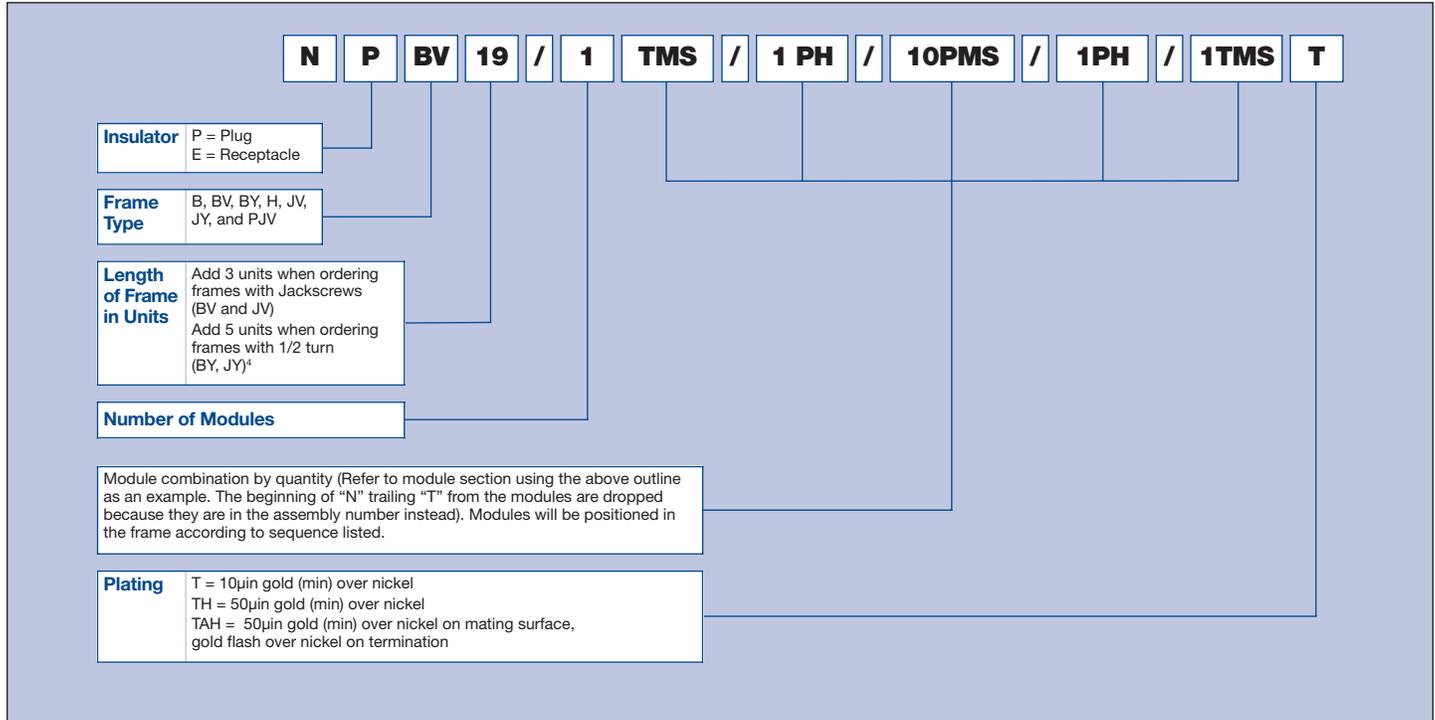
- 1) 59.0 oz. in. torque for mounting.
- 2) Refer to individual frame type for standard length.

Dimensions are in inches [mm]

N Series connectors are engineered for quick and easy use. Standard housings will be shipped completely assembled with the modules you select mounted.

## Ordering Information

The length of the frame is computed by multiplying the number of module units by the module quantity and totaling the results. If a half spacer is required, LFH1 can be used. Assign "FH1" in part number scheme below.



### NOTES:

- 1) When part number exceeds 24 characters, please consult factory for special (abbreviated) part number.
- 2) The plug frame has a built in pin shroud (sockets may be used in plug frames, but not recommended).
- 3) See receptacle for sequence of modules.
- 4) Consult factory when ordering straight dip solder tails with jacking version. Special cut out and modification - 872 is required.

Dimensions are in inches [mm]