



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.

Additional contacts technologies available:

- Fiber Optics
- Quadrax
- Hydraulic
- Pneumatic

The width of each module block is designated in units.

Modules available with fixed contacts:

- 2 contacts at 50 Amps (Type M)
- 2 contacts at 25 Amps (Type C)
- 3 contacts at 15 Amps (Type B)
- 5 contacts at 8 Amps (Type A)
- 17 contacts at 8 Amps (Type D))

Modules available with “Snap In” crimp contacts:

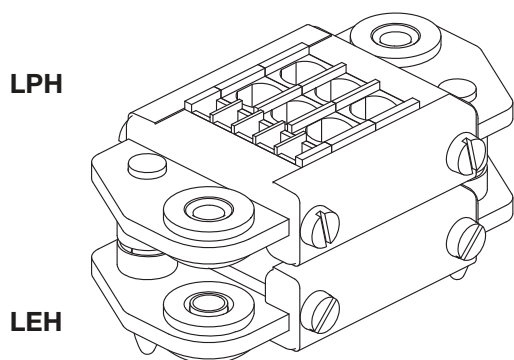
- 1 contact at 200 Amps (Type G)
- 1 contact at 100 Amps (Type K)
- 2 contacts at 25 and 50 Amps (Type U)
- 3 contacts at 25 Amps (Type V)
- 3 contacts at 15 Amps (Type S)
- 5 contacts at 8 Amps (Type R)
- 30 contacts at 4 Amps (Type W)
- 3 contacts coaxial (Type V)

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.

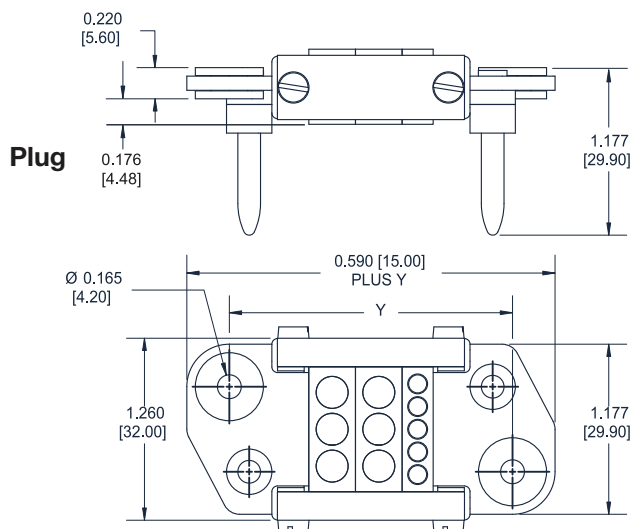
With the L Series, specially designed connectors can be purchased quickly and inexpensively, eliminating the extra cost and delay of custom tooling.

Frame H

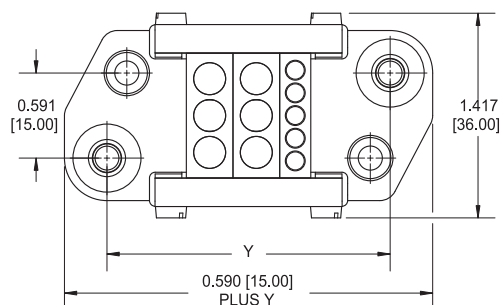
File No.: UL E102195



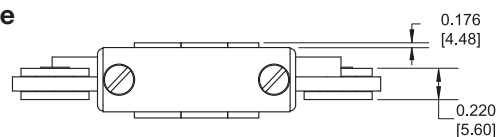
- Rack and panel with guides
- Float mounting 0.049 [1.25] max. from center



SEQUENCE OF MODULES



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

Empty Frame Ordering Information

L

E

H

4

Standard Frame Size

4 – 20 units

Frame Gender

P = Plug
E = Receptacle

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:

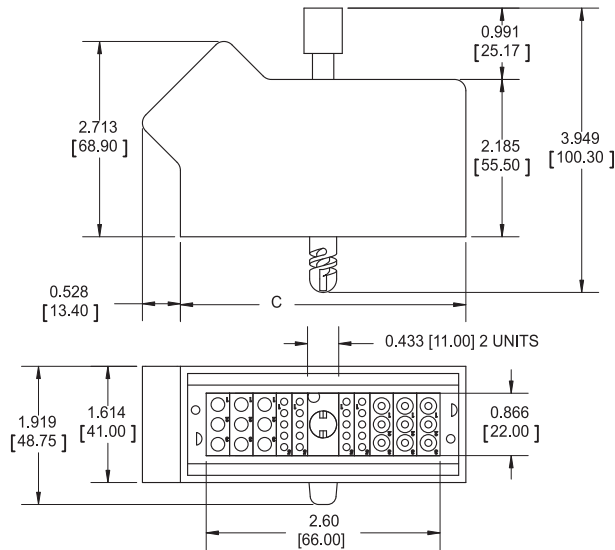
1) Panel cut-out dimensions are in the back of this catalog section.

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

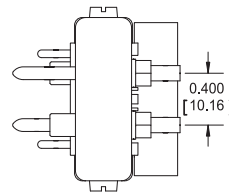
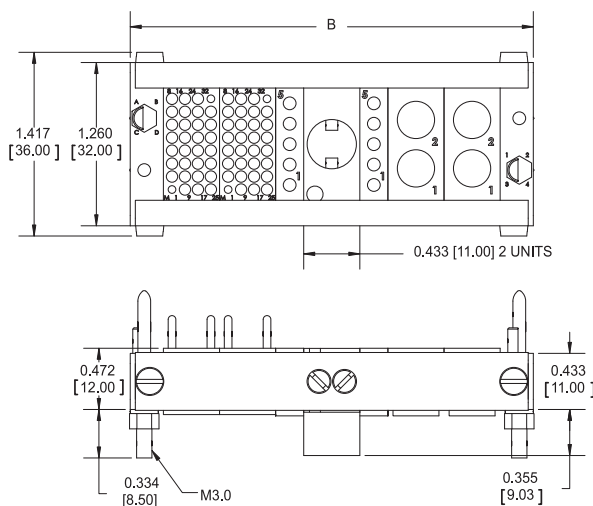
LPMY (Half Turn Plug)



SEQUENCE OF MODULES

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]

LEMY (Half Turn Receptacle)



Empty Frame Ordering Information

L	P	MY	12
		Frame Size	12, 15, 20 and 22 units (allow 2 units for jackscrew)
		Frame Gender	P = Plug E = Receptacle

NOTES:

1) Panel cut-out dimensions are in the back of this catalog section.

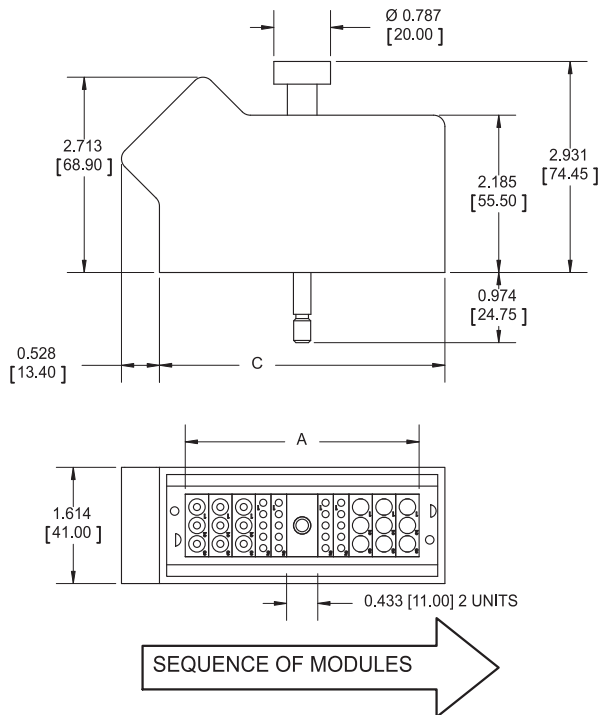
Dimensions are in inches [mm]

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

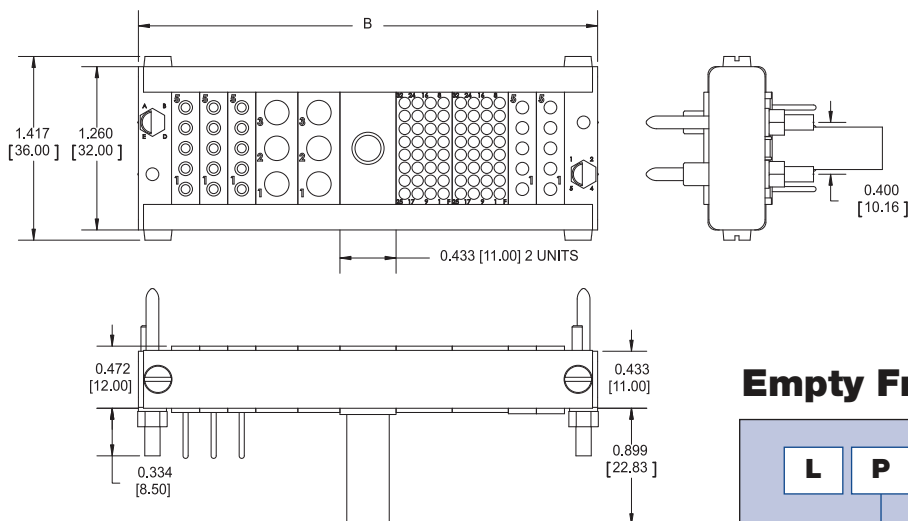
- 36 keying combinations
- Rugged black polycarbonate backshell
- Built-in pin protection
- 12, 15, 20 and 22 unit lengths

LPMV (Multi-Turn Plug)



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]

LEMV (Multi-Turn Receptacle)



Empty Frame Ordering Information

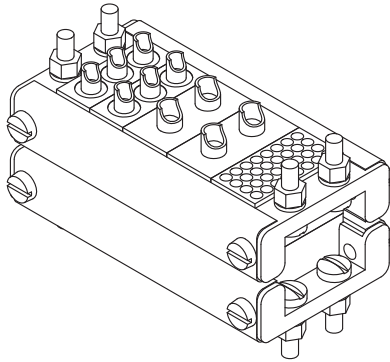
L	P	MV	12
		Frame Size	12, 15, 20 and 22 units (allow 2 units for jackscrew)
		Frame Gender	P = Plug E = Receptacle

NOTE:
1) Panel cut-out dimensions are in the back of this catalog section.

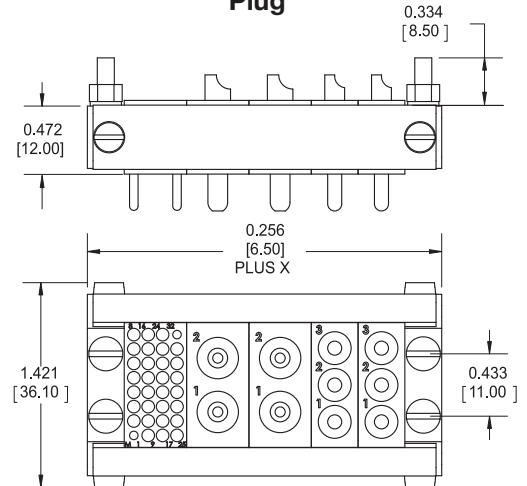
Dimensions are in inches [mm]

Frame A

- Simple Rack and Panel

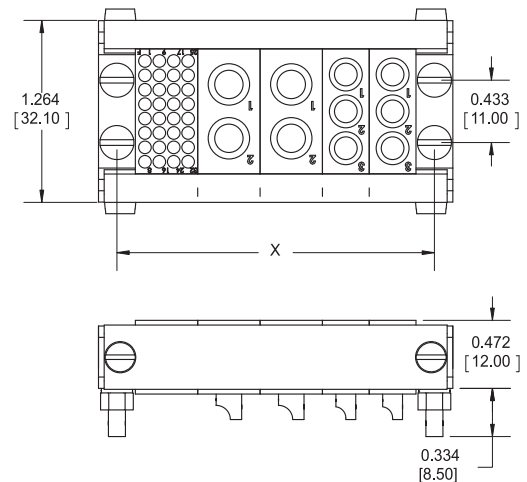


Plug



SEQUENCE OF MODULES

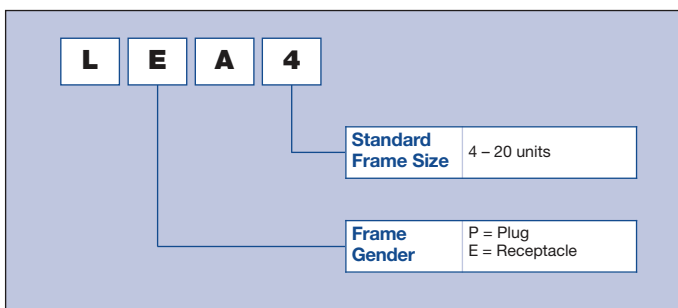
Receptacle



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

Empty Frame Ordering Information



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]

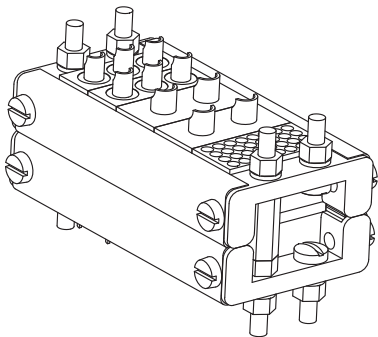
NOTE:

1) Panel cut-out dimensions are in the back of this catalog section.

Dimensions are in inches [mm]

Frame B

- Simple Rack and Panel with guides



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

Empty Frame Ordering Information

L

E

B

4

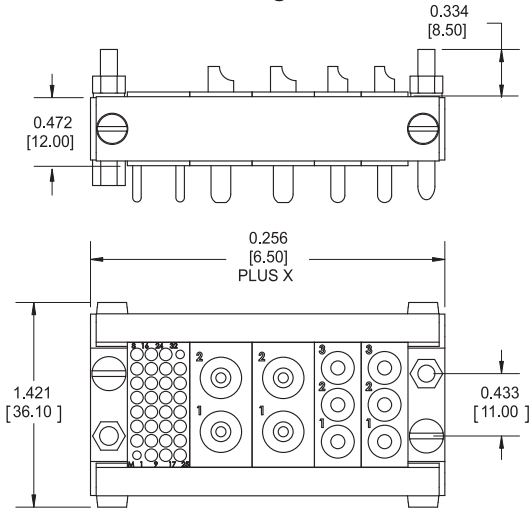
Standard Frame Size

4 – 20 units

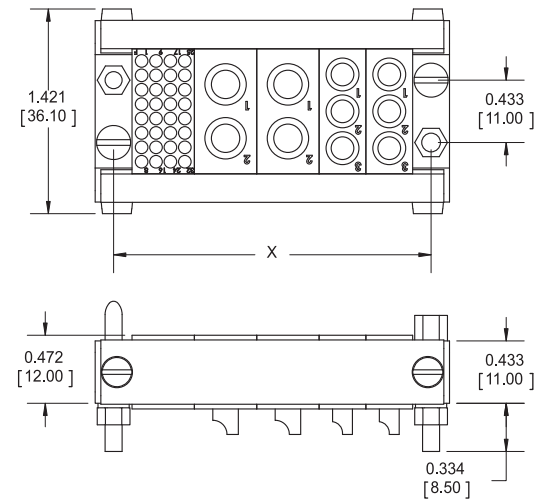
Frame Gender

P = Plug
E = Receptacle

Plug



Receptacle



Mounting Dimensions

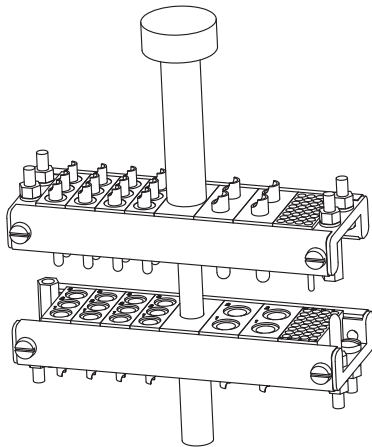
Units	4	5	6	7	8	9	10	11	12
X	1.122 [28.50]	1.338 [34.00]	1.555 [39.50]	1.771 [45.00]	1.988 [50.50]	2.205 [56.00]	2.421 [61.50]	2.638 [67.00]	2.854 [72.50]

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]

NOTE:
1) Panel cut-out dimensions are in the back of this catalog section.
Dimensions are in inches [mm]

Frame BV

- Rack and panel with guides and Jackscrew



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	
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

Empty Frame Ordering Information

L

E

BV

4

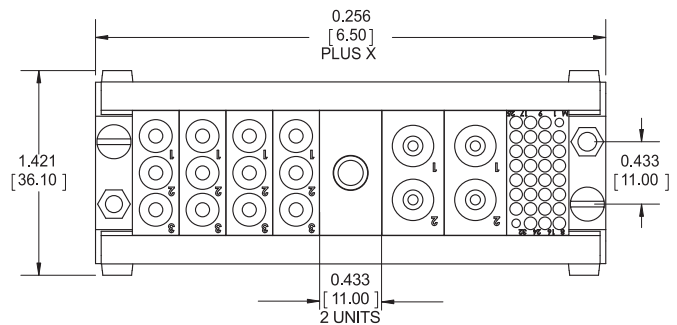
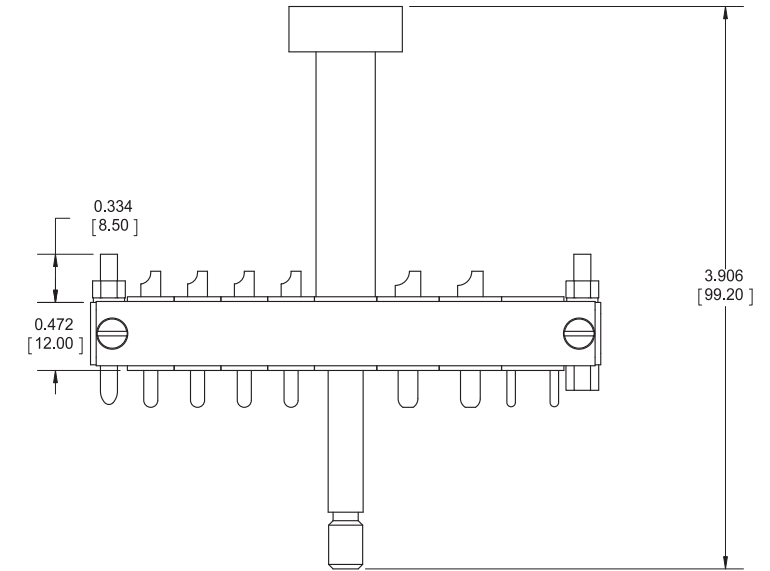
Standard Frame Size 4 – 20 units

Frame Gender P = Plug
E = Receptacle

NOTE:

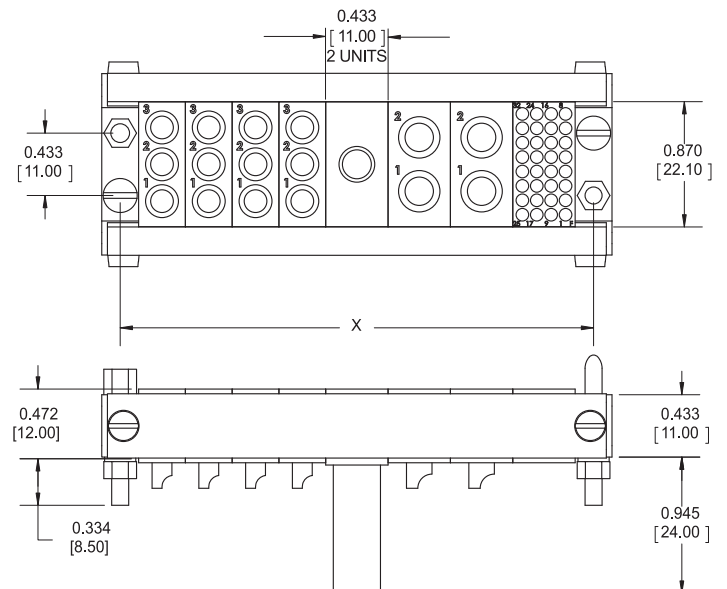
1) Panel cut-out dimensions are in the back of this catalog section.

Plug



SEQUENCE OF MODULES

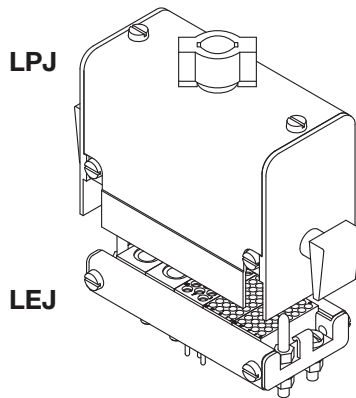
Receptacle



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

Empty Frame Ordering Information

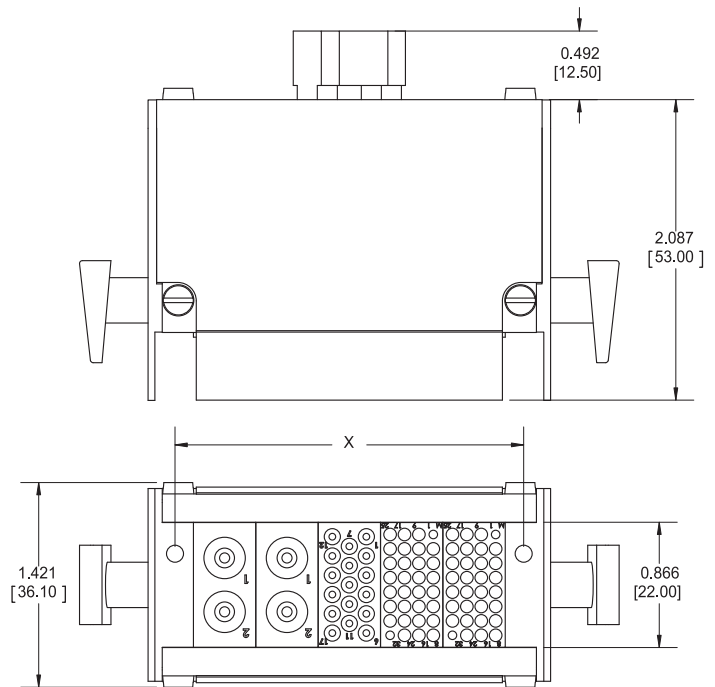
L	P	J	14	SC10						
<table border="1"> <tr> <td>Cable Clamp</td> <td> Max. Diam. Min. Diam. SC10 = 0.394 [10.00] 0.210 [5.35] SC15 = 0.590 [15.00] 0.385 [9.75] SC20 = 0.787 [20.00] 0.605 [15.25] SC24 = 0.945 [24.00] 0.670 [17.00] Not applicable for receptacle </td> </tr> <tr> <td>Frame Size</td> <td>4 – 20 units</td> </tr> <tr> <td>Frame Gender</td> <td>P = Plug E = Receptacle</td> </tr> </table>					Cable Clamp	Max. Diam. Min. Diam. SC10 = 0.394 [10.00] 0.210 [5.35] SC15 = 0.590 [15.00] 0.385 [9.75] SC20 = 0.787 [20.00] 0.605 [15.25] SC24 = 0.945 [24.00] 0.670 [17.00] Not applicable for receptacle	Frame Size	4 – 20 units	Frame Gender	P = Plug E = Receptacle
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Frame Size	4 – 20 units									
Frame Gender	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.
- 3) Panel cut-out dimensions for receptacle are in the back of this catalog section.

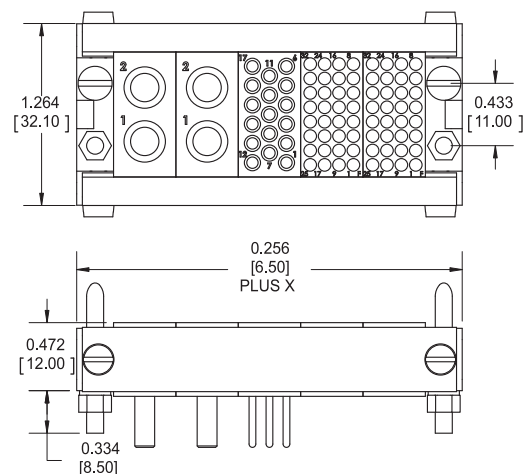
Dimensions are in inches [mm]

Plug



SEQUENCE OF MODULES

Receptacle



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]

Weight, Excluding Modules

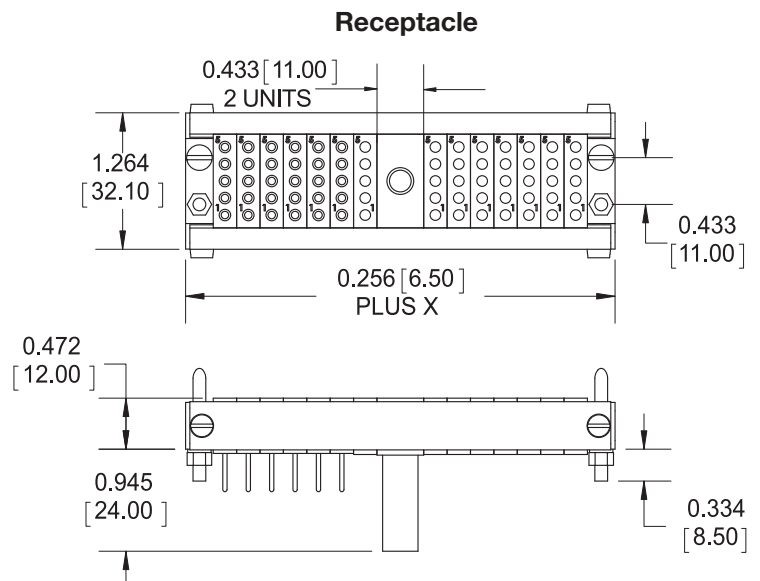
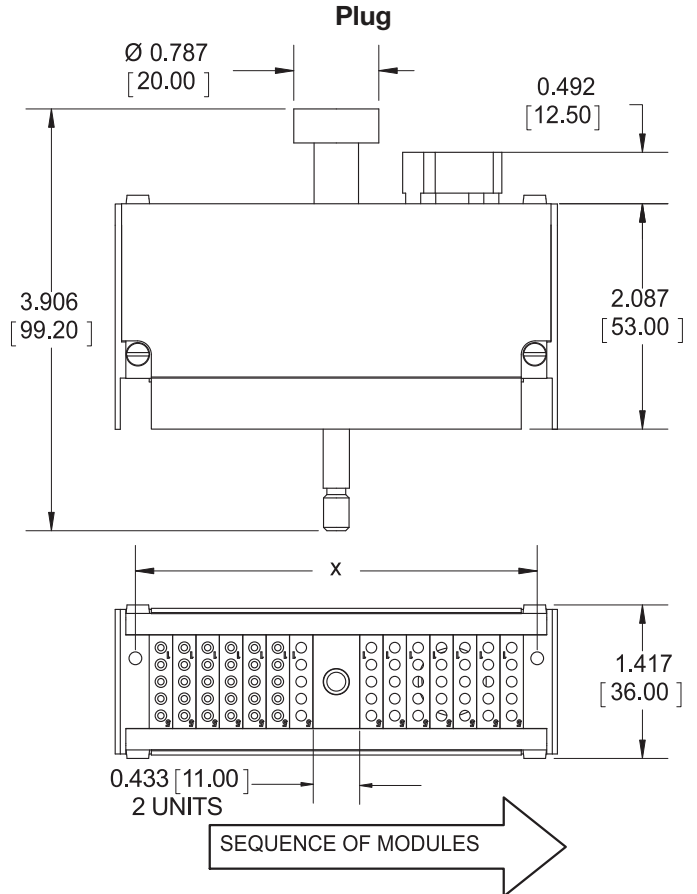
Plug	1.9 oz. at 4 units 2.8 oz. at 20 units
Receptacle	1.6 oz. at 4 units 2.5 oz. at 20 units

Empty Frame Ordering Information

L	P	JV	16	SC10						
<table border="1"> <tr> <td>Cable Clamp</td> <td> Max. Diam. Min. Diam. SC10 = 0.394 [10.00] (min. frame size 16 units) SC15 = 0.590 [15.00] (min. frame size 12 units) SC20 = 0.787 [20.00] (min. frame size 14 units) SC24 = 0.945 [24.00] (min. frame size 16 units) Not applicable for receptacle </td> </tr> <tr> <td>Frame Size</td> <td>4 – 20 units</td> </tr> <tr> <td>Frame Gender</td> <td>P = Plug E = Receptacle</td> </tr> </table>					Cable Clamp	Max. Diam. Min. Diam. SC10 = 0.394 [10.00] (min. frame size 16 units) SC15 = 0.590 [15.00] (min. frame size 12 units) SC20 = 0.787 [20.00] (min. frame size 14 units) SC24 = 0.945 [24.00] (min. frame size 16 units) Not applicable for receptacle	Frame Size	4 – 20 units	Frame Gender	P = Plug E = Receptacle
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Frame Size	4 – 20 units									
Frame Gender	P = Plug E = Receptacle									

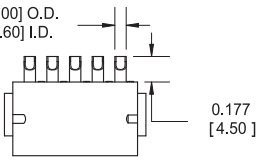
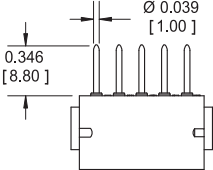
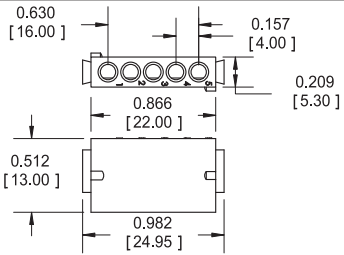
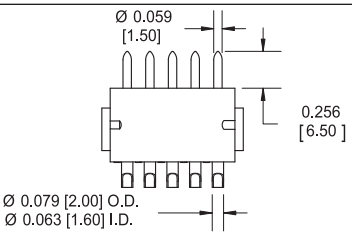
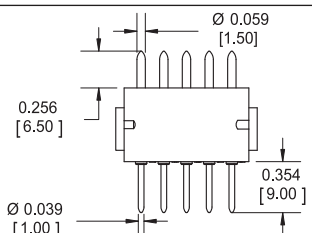
NOTES:

- 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.
- 3) Panel cut-out dimensions for receptacle are in the back of this catalog section



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

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:

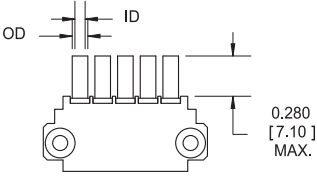
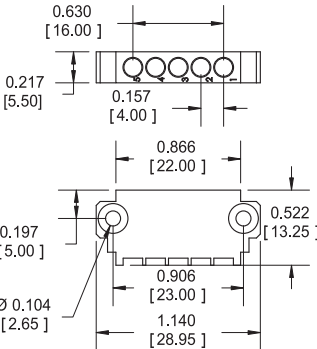
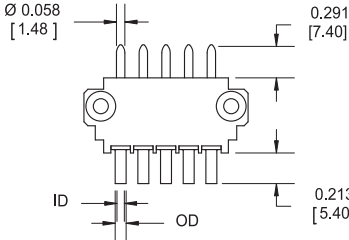
1) These "A" modules will mate with "R" crimp modules.

Dimensions are in inches [mm]

General Specifications

Current Rating	8 Amps
Contact Resistance	< 2.5 milliohms
Extraction Force (Per Contact) ¹	1.0 – 5.0 oz. (See note on ordering info page.)
Contact Life Cycles	> 100,000
Breakdown Voltage	> 2000V RMS
Dielectric Withstanding Voltage	1500V RMS
Insulation Resistance	> 10 ⁶ 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: 0.2 oz., F: 0.15 oz.

Ordering Information

Module R 8 Amp Contact Rating	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
		22-26	0.035 [0.90]	0.051 [1.30]	50µin gold	LRF2	YSK015-142AH
		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
		28	0.022 [0.56]	0.076 [1.93]	50µin gold	LRF5	YSK015-009AH
	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
		22-26	0.035 [0.90]	0.051 [1.30]	10µin gold	LRM2	YPN015-129G
					50µin gold	LRM2H	YPN015-129H
		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
		28	0.022 [0.56]	0.076 [1.93]	10µin gold	LRM5	YPN015-004RG
					50µin gold	LRM5H	YPN015-004RH

 File No.: UL E102195

Accessories	
Crimp Tool	AF8
Crimp Positioner:	
Style 1	TP1650
Style 2	T.B.D.
Style 3	TP592
Style 4	TP1128
Style 5	TP613
Insertion/Extraction Tool	S0150.01

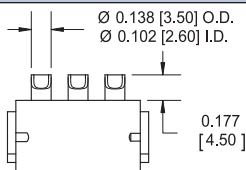
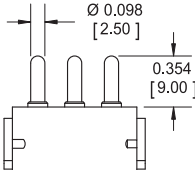
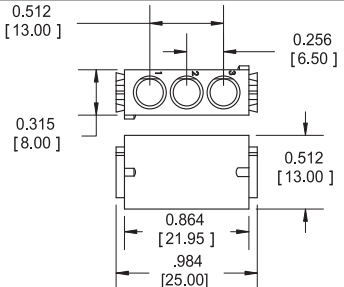
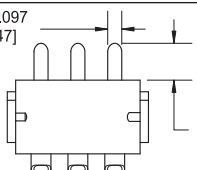
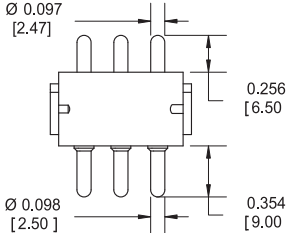
Plating Reference	
Male Pins:	10µin gold (min) over nickel 50µin gold (min) over nickel
Female Sockets:	50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

NOTE:
1) These "R" crimp modules will mate with "A" modules.

General Specifications	
Current Rating	8 Amps
Contact Resistance	< 2.5 milliohms
Extraction Force (Per Contact) ¹	1.0 – 5.0 oz. (See note on ordering info page.)
Contact Life Cycles	> 100,000
Breakdown Voltage	> 1600V RMS
Dielectric Withstanding Voltage	1200V RMS
Insulation Resistance	> 10 ⁴ megohms at 500 VDC
Temperature Rating	-55° C to 105° C
Insulator Material	Nylon
Contact	
Material (Pin) (Socket)	Brass Beryllium copper wires and brass body
Approximate Weight	M: 0.22 oz., F: 0.16 oz.

Dimensions are in inches [mm]

Ordering Information

Module B 15 Amp Contact Rating	Width: 1.5 Units • Contacts: 3 Hypertac® Fixed Contacts • Ø 0.098 [2.50]			
	Gender	Termination	Plating	Part Number
 Ø 0.138 [3.50] O.D. Ø 0.102 [2.60] I.D. 0.177 [4.50]	Female	Solder Cup up to 12 AWG	50µin gold	LBFSTAH
 Ø 0.098 [2.50] 0.354 [9.00]	Female	Straight Dip Solder	50µin gold	LBFDAH
 0.512 [13.00] 0.315 [8.00] 0.256 [6.50] 0.512 [13.00] 0.864 [21.95] .984 [25.00]	Empty Block	—	—	ZLM003-001 (LBHT)
 Ø 0.097 [2.47] 0.256 [6.50]	Male	Solder Cup up to 12 AWG	10µin gold	LBMST
			50µin gold	LBMSTH
 Ø 0.097 [2.47] 0.256 [6.50] Ø 0.098 [2.50] 0.354 [9.00]	Male	Straight Dip Solder	10µin gold	LBMDT
			50µin gold	LBMDTH

 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

General Specifications

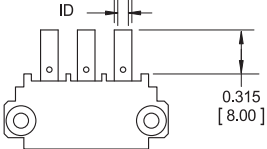
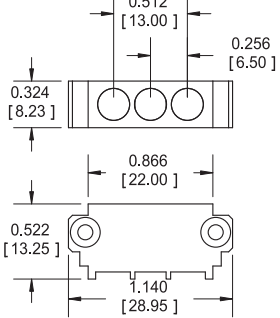
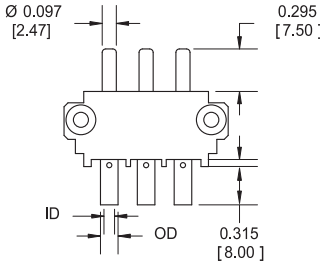
Current Rating	15 Amps
Contact Resistance	< 1 milliohms
Extraction Force (Per Contact) ¹	3.0 – 25.0 oz. (See note on ordering info page.)
Contact Life Cycles	> 100,000
Breakdown Voltage	> 1600V RMS
Dielectric Withstanding Voltage	1200V RMS
Insulation Resistance	> 10 ⁸ megohms at 500 VDC
Temperature Rating	-55° C to 125° C
Insulator Material	Diallyl-phthalate
Contact	
Material	(Pin) (Socket)
	Brass Beryllium copper wires and brass body
Approximate Weight	M: 0.35 oz., F: 0.25 oz.

NOTE:

1) These "B" modules will mate with "S" crimp modules.

Dimensions are in inches [mm]

Ordering Information

Module S 15 Amp Contact Rating	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	16-22	0.059 [1.50]	0.122 [3.10]	50µin gold	LSF1	YSK025-003AH
		14-16	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	16-22	0.059 [1.50]	0.122 [3.10]	10µin gold	LSM1	YPN025-002G
		16-22			50µin gold	LSM1H	YPN025-002H
		14-16	0.077 [1.95]	0.122 [3.10]	10µin gold	LSM2	YPN025-003G
		14-16			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

Accessories

Crimp ToolM309
 Crimp PositionerTP1179
 Insertion/Extraction ToolS0250.01

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

NOTE:

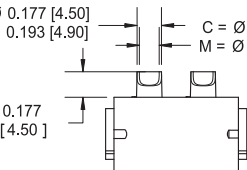
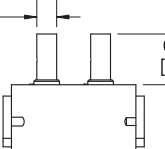
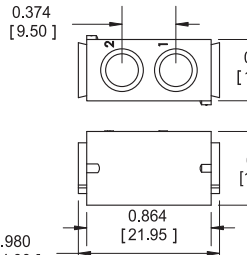
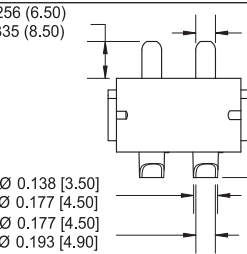
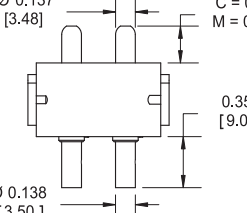
1) These “S” crimp modules will mate with “B” modules.

General Specifications

Current Rating	15 Amps
Contact Resistance	< 1.5 milliohms
Extraction Force (Per Contact)¹	3.0 – 28.3 oz. (See note on ordering info page.)
Contact Life Cycles	> 100,000
Breakdown Voltage	> 2000V RMS
Dielectric Withstanding Voltage	1500V RMS
Insulation Resistance	> 10 ⁴ megohms at 500 VDC
Temperature Rating	-55° C to 105° C
Insulator Material	Nylon
Contact	
Material (Pin) (Socket)	Brass Beryllium copper wires and brass body
Approximate Weight	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	LCFSTAH
		Solder Cup up to 8 AWG		50	LMFSTAH
	Female	Straight Dip Solder	50µin gold	25	LCFDTAH
				50	LMFDTAH
	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

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:

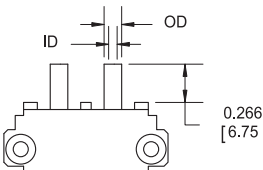
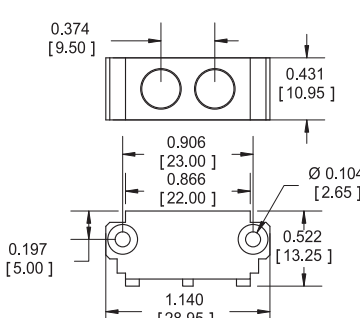
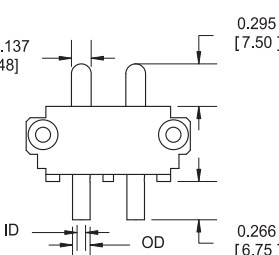
1) These "C" and "M" modules will mate with "U" crimp modules.

Dimensions are in inches [mm]

General Specifications

Current Rating	C: 25 Amps M: 50 Amps
Contact Resistance	C: < 0.8 mΩ M: 0.40 mΩ
Extraction Force (Per Contact) ¹	C: 4.0 – 32.0 oz. M: 4.0 – 40.0 oz. (See note on ordering info page.)
Contact Life Cycles	> 100,000
Breakdown Voltage	> 3000V RMS
Dielectric Withstanding Voltage	2250V RMS
Insulation Resistance	> 10 ⁶ 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: 0.44 oz., F: 0.31 oz.

Ordering Information

Module U 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	—	—	—	—	—	ZLU002-001 (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		LUM5H	YPN035-023RH

 File No.: UL E102195

Accessories

Crimp Tool	
Style 1, 2, 3, 5	T1264
Style 4	T712
Crimp Die Set	
Style 4	T761
Crimp Positioner:	
Style 1, 2, 3	TP1232
Style 4	T758
Style 5	T1559
Insertion/Extraction Tool	S0350.01

Plating Reference

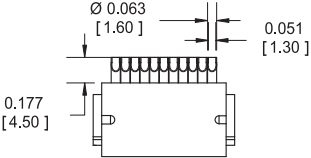
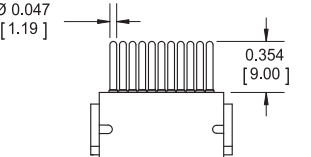
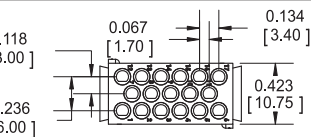
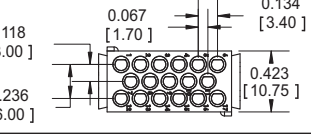
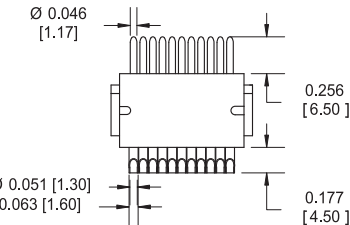
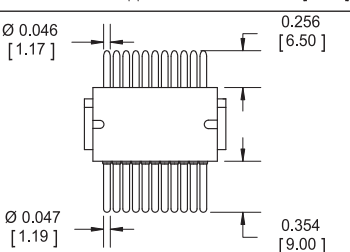
Male Pins:	10µin gold (min) over nickel 50µin gold (min) over nickel
Female Sockets:	50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

General Specifications

Current Rating	25 or 50 Amps
Contact Resistance	< 0.8 milliohms
Extraction Force (Per Contact) ¹	4.0 – 35.0 oz. (See note on ordering info page.)
Contact Life Cycles	> 100,000
Breakdown Voltage	> 2800V RMS
Dielectric Withstanding Voltage	2100V RMS
Insulation Resistance	> 10 ⁴ megohms at 500 VDC
Temperature Rating	-55° C to 105° C
Insulator Material	Nylon
Contact	
Material	(Pin) (Socket) Brass Beryllium copper wires and brass body
Approximate Weight	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

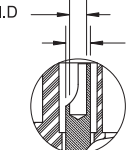
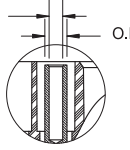
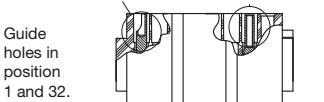
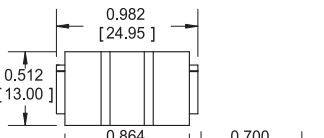
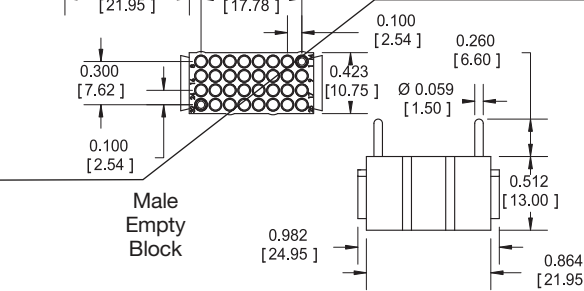
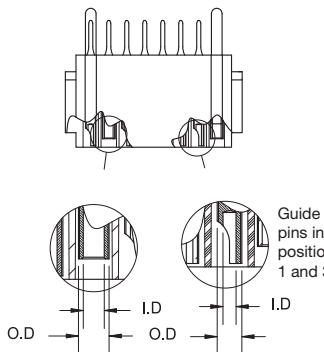
Male Pins:	10µin gold (min) over nickel 50µin gold (min) over nickel
Female Sockets:	50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

General Specifications

Current Rating	8 Amps
Contact Resistance	< 3.0 milliohms
Extraction Force (Per Contact) ¹	1.0 – 4.5 oz. (See note on ordering info page.)
Contact Life Cycles	> 100,000
Breakdown Voltage	> 1800V RMS
Dielectric Withstanding Voltage	1350V RMS
Insulation Resistance	> 10 ⁶ 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: 0.31 oz., F: 0.45 oz.

Dimensions are in inches [mm]

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			
SOLDER CUP  CRIMP   Guide holes in position 1 and 32.		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	YSK006-011ANH		
Solder Cup 26 AWG	0.039 [1.00]		0.057 [1.45]	50µin gold	LWFSTAH	YSK006-010ANH		
 Female Empty Block			—	—	—	ZLM030-002 (LWFHT)	—	
 Male Empty Block			—	—	—	LWMHT	—	
 Guide pins in position 1 and 32.		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 for "R".....	K547
Crimp Positioner for "RR".....	K547-2
Insertion Tool.....	T1866
Extraction Tool.....	S/DEM1.0060

Plating Reference

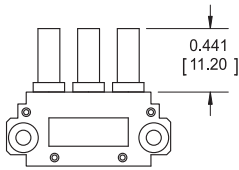
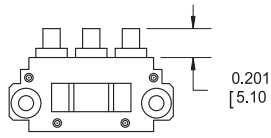
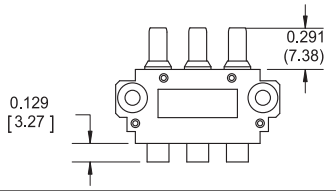
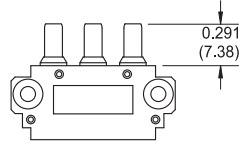
Male Pins:	10µin gold (min) over nickel 50µin gold (min) over nickel
Female Sockets:	50µin gold (min) over nickel on mating surface, gold flash over nickel on termination

General Specifications

Current Rating	4 Amps
Contact Resistance	< 5 milliohms
Extraction Force (Per Contact)	0.5 – 2.0 oz. (See note on ordering info page.)
Contact Life Cycles	> 100,000
Breakdown Voltage	> 2200 VAC
Dielectric Withstanding Voltage	1650 VAC
Insulation Resistance	10 ⁹ megohms at 500 VDC
Temperature Rating	-55° C to 125° C
Insulator Material	Polyphenylene sulfide
Contact	
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	LVFSTA H	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

For Center Conductor Crimping

Crimp Tool: AFM8

Crimp Positioner: T1957

For Outer Shielding Crimping

Crimp Tool: HX3

Die Set: T1958 or T2019 for RG316DB

Contact Removal Tool: T1982

Cabling Instructions

Crimp (R) and (R1)		Solder (S)	
Cable	RG316 and RG316DB	RG405	T-Flex 405
Socket	S50302	S50301	S50307
Pin	S50304	S50303	S50308

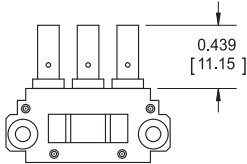
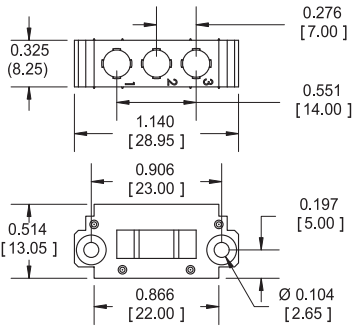
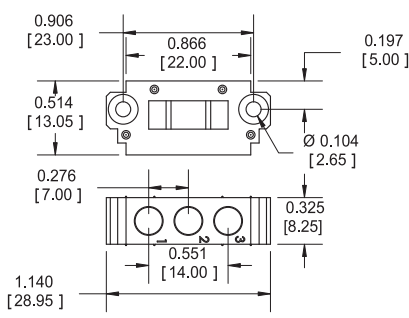
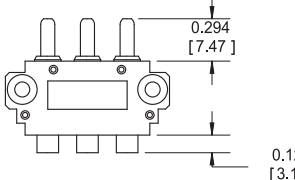
Please request specs from our customer service department.

General Specifications COAXTAC™

Nominal Impedance	50 ohms
Frequency Range	DC 3 GHz with RG316 DC 18 GHz with RG405
Temperature Rating	-55° C to 125° C
Materials	Brass, beryllium copper PTFE Fluorocarbon
Finishes	Center Contacts and Housings Wire
Electrical (Based on RG405 Semi Rigid Cable)	
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 megohms min.
Dielectric Withstanding Voltage	500V RMS
Contact Resistance	
Inner Contact	8 milliohms max.
Outer Contact	2 milliohms max.
Mechanical	
Extraction Force Per Contact	1.5 – 6.0 oz. max., 3.0 oz. average
Connector Life Cycles	> 25,000 cycles

Dimensions are in inches [mm]

Ordering Information

Module V 25 Amp Power	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 ToolM309
Crimp Positioner:T1981
Extraction ToolT1982

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

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

NOTE:
Contact shipped unassembled.

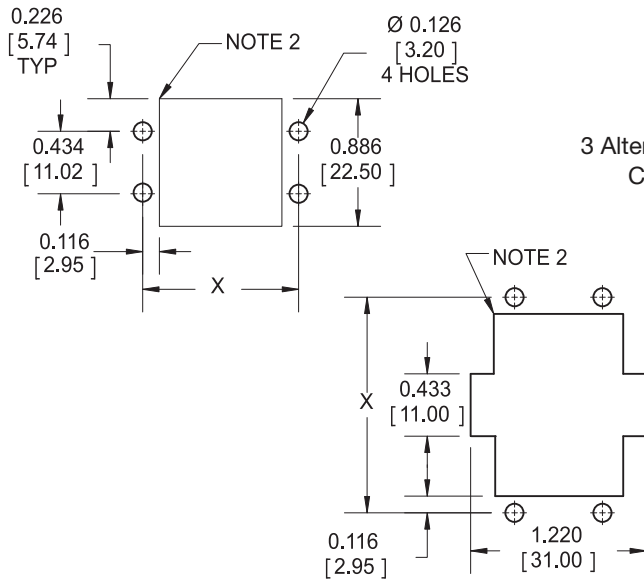
Dimensions are in inches [mm]

UL File No.: UL E102195

Mounting Dimensions

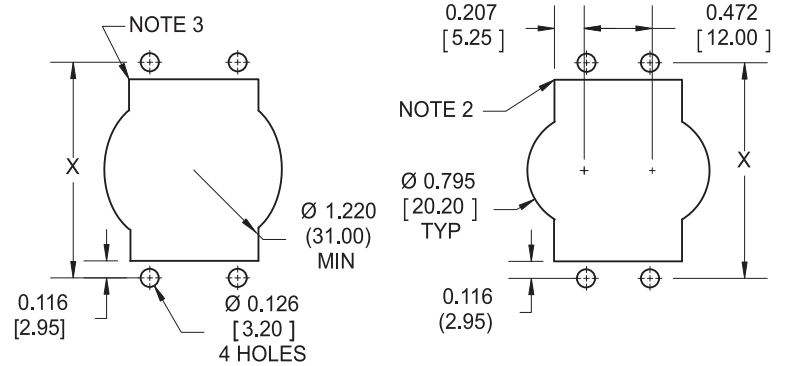
For Frame Types A, B, BV, J, JV, K, KV, R and RV to Mount to Wiring Side of Connector

Stationary



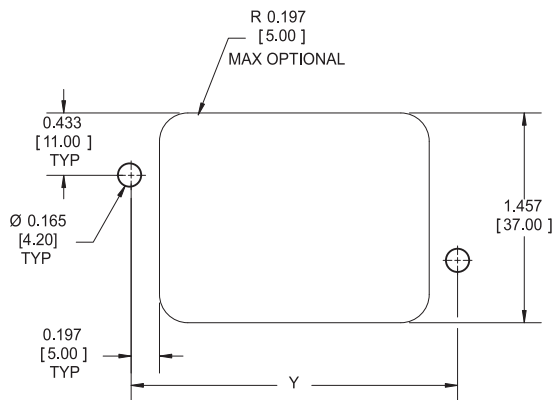
Stationary with Jackscrew Extraction

3 Alternate Mounting Dimensions for Receptacle to Provide Clearance for Jackscrew Base Hold Down Clamps

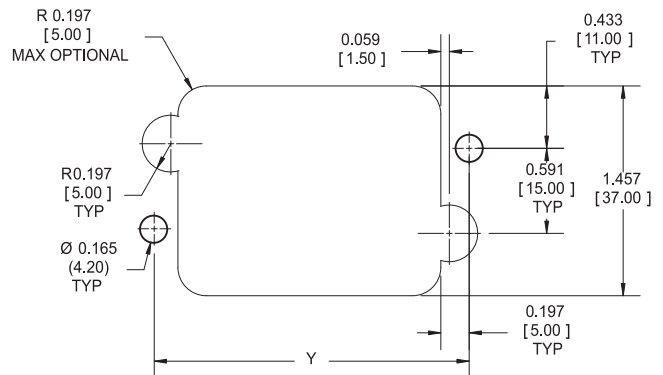


For Frame Type H (Float Mounting)

Plug



Receptacle



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]

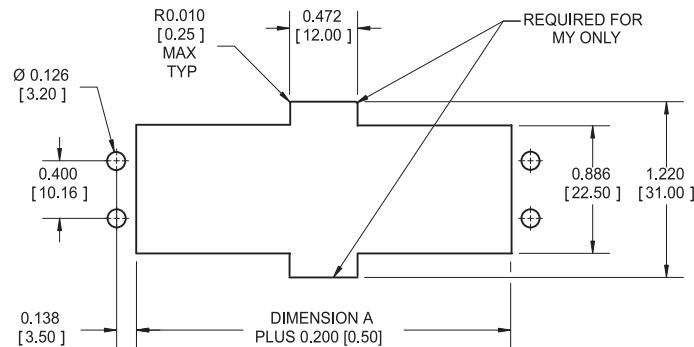
NOTES:

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

Dimensions are in inches [mm]

Mounting Dimensions For Frame Types MV and MY

Receptacle



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 Information¹

The length of the frame is computed by multiplying the module units by 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 ² . Allow 2 additional units when ordering frames with Jackscrews (BV, JV, KV, MV, MY, RV). Up to 30 units are available – consult factory.		Quantity of Similar Modules Example: 4AMST = 4 of "AMST" style modules		Module groups (Refer to product page for type of module and terminal style, etc. using above outline as sample only). Modules will be positioned in frame according to sequence listed.		Plating TG = 10µin gold over nickel, male contacts only TH = 50µin gold over nickel, male contacts only TAH = 50µin gold over nickel on mating surface, gold flash over nickel on termination, female contacts only		Cable Clamp Location L = Left R = Right F = Front B = Back Omit for default location: J and JV frames only	Cable Clamp and Cable Size: (J and JV frames only) Round cable (J and JV frames) Max. diameter Min. diameter 10 = 0.394 [10.00] 0.210 [5.35] (min. frame size 16 units) 15 = 0.590 [15.00] 0.385 [9.75] (min. frame size 12 units) 20 = 0.787 [20.00] 0.605 [15.25] (min. frame size 14 units) 24 = 0.945 [24.00] 0.670 [17.00] (min. frame size 16 units)

Complete connector assemblies may exhibit higher extraction forces than the sum of the individual contact extraction forces listed.

NOTES:

- When part number exceeds 24 characters a special abbreviated part number will be assigned at the time of order.
- Frames MV and MY available in 12, 15, 20 and 22 units only.

Dimensions are in inches [mm]