

INTRODUCTION:

Adam Tech IEC & Mini IEC Series AC Inlets and Outlets are primary power receptacles designed, manufactured, tested and approved to UL, CSA, VDE and other applicable international specifications including IEC-60320 and CEE-22. Adam Tech offers a wide variety of body styles, shapes and orientations to accommodate most class I & II applications with two or three blade contacts in both IEC and Mini-IEC configurations. Mounting choices include screw holes and snap-in versions and four termination styles. Options of ganged ports or receptacle with integral fuse holder are also available.

FEATURES:

IEC & Mini-IEC types
IEC-60320, CEE-22 Compliant
UL, CSA and VDE approved
Multitude of Body Styles
Choice of terminations
Option of Integral Fuse Holder

MATING CONNECTORS:

Adam Tech PC series power cords and all standard international IEC 60320 power supply cords.

SPECIFICATIONS:

Material:

Insulator: Polycarbonate or Nylon 66, glass filled, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze or Brass

Plating:

Nickel over copper underplate. (Solder terminals: Tin over copper underplate)

Electrical:

Operating Voltage: 250V AC
Current Rating: IEC - UL & CSA: 15 Amps Max,
VDE: 10 Amps Max.
Mini IEC - UL, CSA & VDE 2.5 Amps Max.

Insulation Resistance: 100 MΩ Min. @ 500V DC
Dielectric Withstanding Voltage: 2000V AC for 1 Minute

Temperature Rating:

Operation Temperature: -25°C ~ +70°C

PACKAGING:

Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File Nos. E224050, E224051, E224052
CSA Certified File No. LR226373



DB12



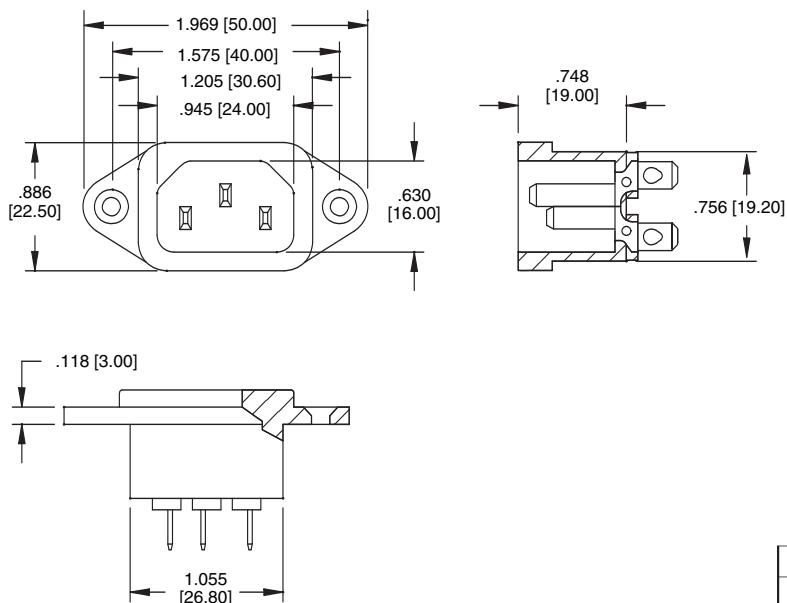
ORDERING INFORMATION

IEC	A	1	150
SERIES INDICATOR IEC = International inlet/outlet	TERMINALS		
	1 = .187" Quick-connect terminals		
	2 = .250" Quick-connect terminals		
	3 = Solder terminals .157" [4.0mm]		
	4 = Right Angle PCB mount		
	5 = Solder Terminals .098" [2.5mm]		
	PANEL THICKNESS (for body styles C, D & J only) Blank = Universal Snap		
			080 = 0.8mm Panel
			120 = 1.2mm Panel
			150 = 1.5mm Panel
			200 = 2.0mm Panel
			300 = 3.0mm Panel
BODY STYLE			
A = Male Inlet, Screw-on panel mount			
B = Female Outlet, Screw-on panel mount			
C = Male Inlet, Snap-in panel mount			
D = Female Outlet, Snap-in panel mount			
E = Male Inlet, Right Angle PC board mount with mounting flange (Specify EW, EX, EY or EZ)			
F = Male Inlet, Screw on panel mount with 5 x 20mm fuse holder			
G = Male Inlet, Snap-in panel mount with 5 x 20mm fuse holder			
HS = Inlet/Outlet, snap-in panel mount			
HR = Inlet/outlet, snap-in panel mount, right angle PCB mount			
J = Male inlet, right angle PCB & tail with snap-in panel mounting			
NA = Mini-IEC right angle, snap-in			
NB = Mini-IEC right angle, slide-in			
NB-A = Mini-IEC right angle, slide-in with pegs			
NC = Mini-IEC right angle, with flush flange			
NC-A = Mini-IEC right angle, with extended face			
ND = Mini-IEC right angle, with enclosed body			
NF = Mini-IEC right angle, polarized with flange			
NH = Mini-IEC right angle, with ground pin			
NH-A = Mini-IEC right angle, flange mount with ground pin			
GS = Fused inlet with switch snap in panel mount			
FS = Fused inlet with switch screw on panel mount			

OPTIONS:

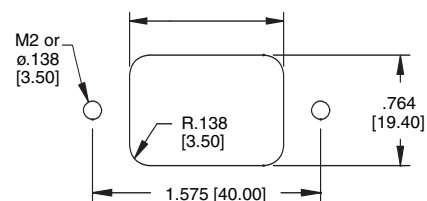
K = Keyed for 120° C (Body Styles A, C, E & J)
M = Female outlet, 20 AMP, Flanged
N = Male inlet, 20 AMP, Snap-In

IEC-A SCREW ON PANEL MOUNT



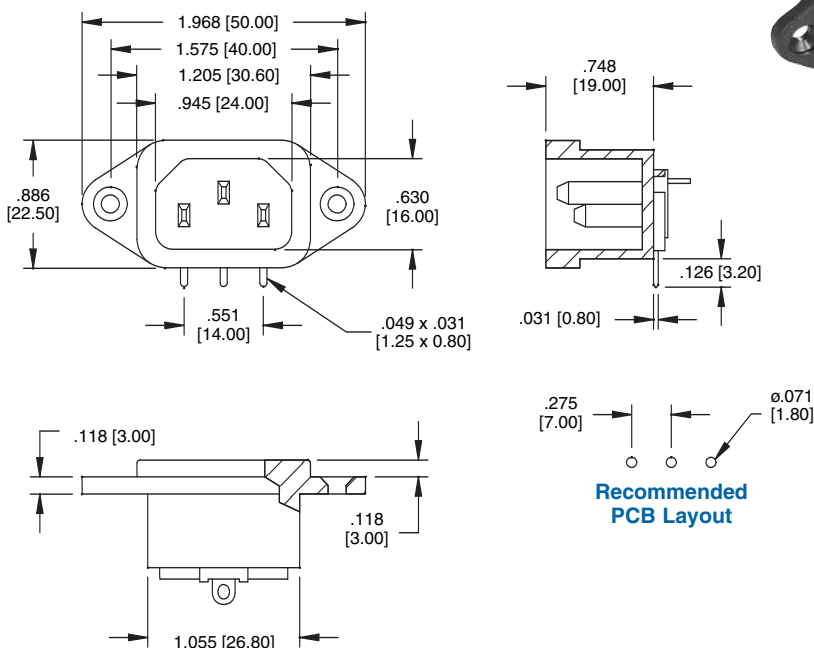
IEC-A-1

1.075 [27.30] Front Mounting
1.212 [30.80] Rear Mounting

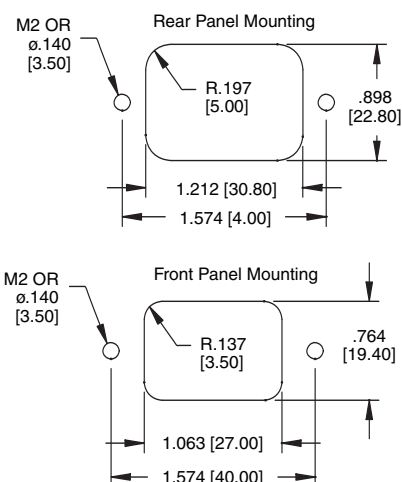


TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

IEC-A SCREW ON PANEL RIGHT ANGLE PCB MOUNT



IEC-A-4

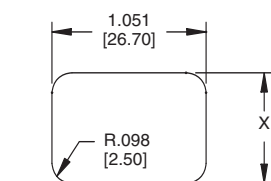
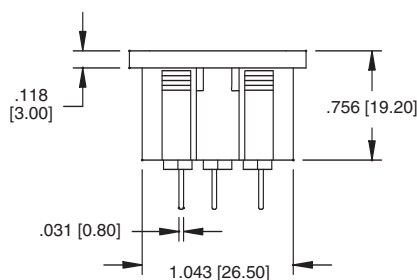
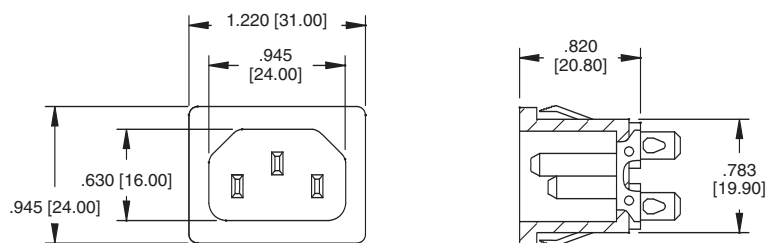


IEC-C

UNIVERSAL PANEL SNAP



IEC-C-1



**Recommended Panel
Thickness: 0.8mm - 3.0mm**

PANEL THICKNESS	DIM X
.031-.039 [0.8-1.0]	.780 [19.8]
.039-.059 [1.0-1.5]	.784 [19.9]
.079-.119 [2.0-3.0]	.788 [20.0]

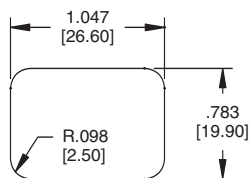
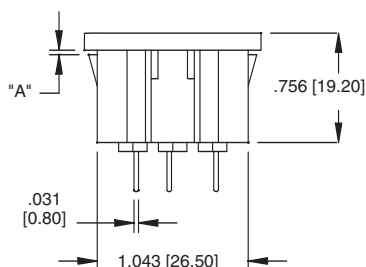
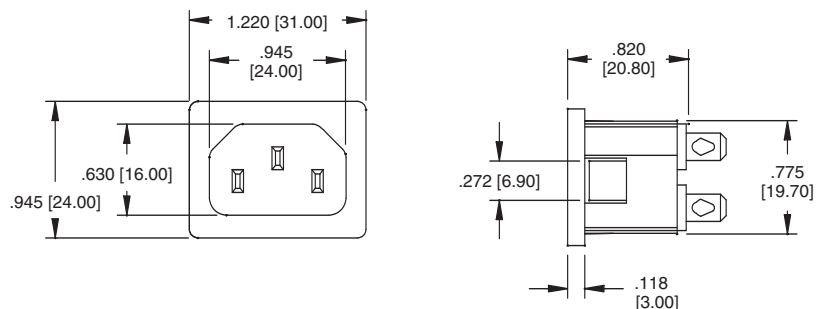
TERMINAL OPTIONS			
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.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

IEC-C

DEDICATED PANEL SNAP



IEC-C-1-150



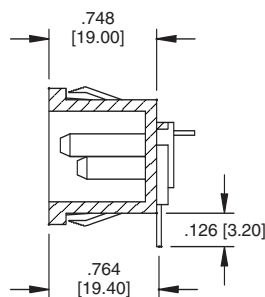
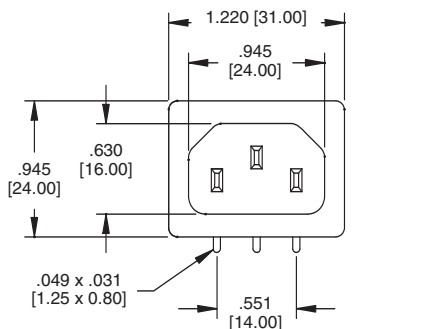
**Recommended
Panel Cut-Out**

PANEL THICKNESS	PART NUMBER	DIM "A"
0.8mm	IEC-C-X-080	.031 [0.80]
1.5mm	IEC-C-X-150	.059 [1.50]
3.0mm	IEC-C-X-300	.118 [3.00]
4.0mm	IEC-C-X-400	.157 [4.00]

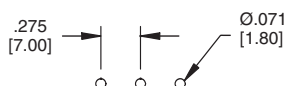
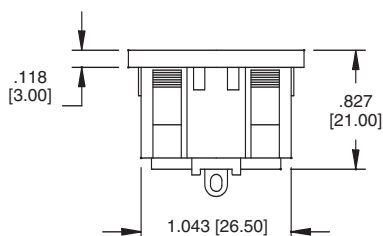
Replace X with terminal option below

TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

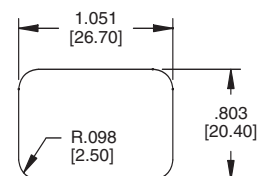
IEC-J UNIVERSAL PANEL SNAP RIGHT ANGLE PCB MOUNT



IEC-J-4

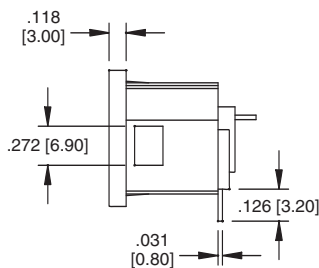
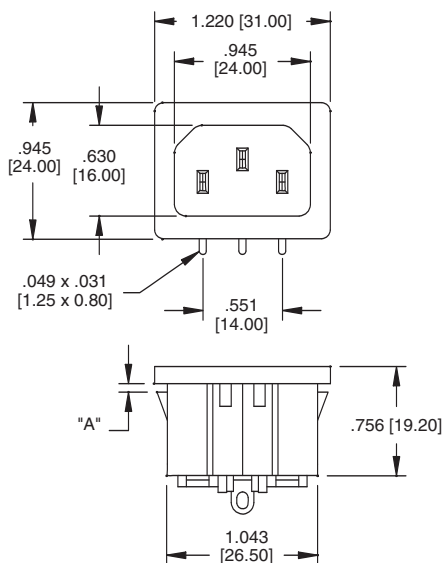


Recommended PCB
Layout

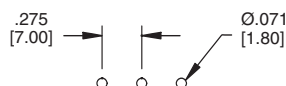
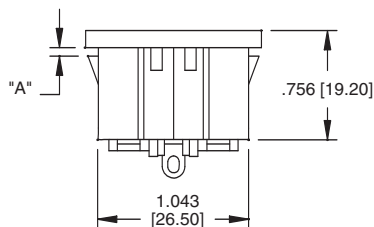


Recommended Panel
Thickness: 0.80mm - 3.0mm

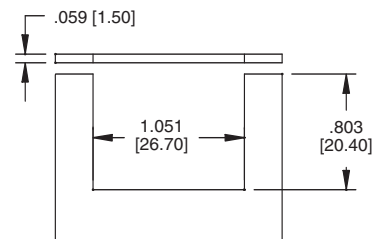
IEC-J DEDICATED PANEL SNAP RIGHT ANGLE PCB MOUNT



IEC-J-4-150



Recommended PCB
Layout

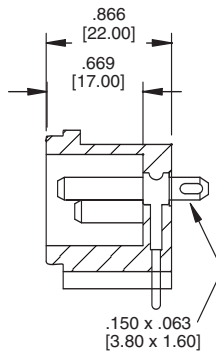
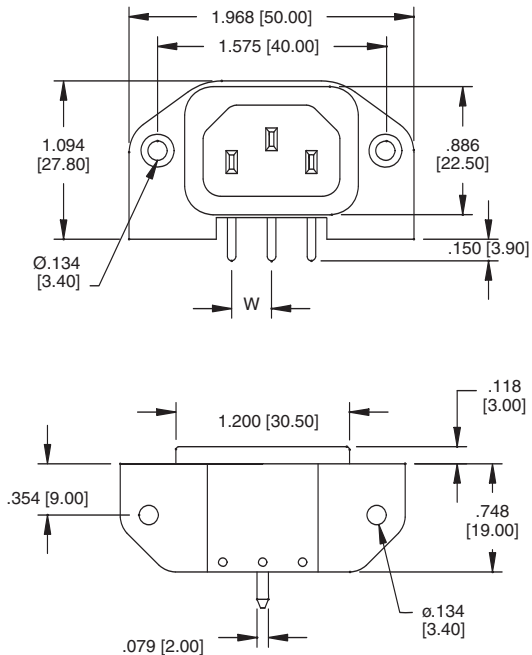


Recommended Panel Cut-Out

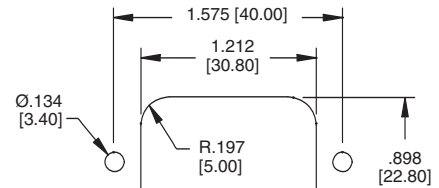
PANEL THICKNESS	PART NUMBER	DIM "A"
0.8mm	IEC-J-4-120	.047 [1.20]
1.5mm	IEC-J-4-150	.059 [1.50]
3.0mm	IEC-J-4-200	.079 [2.00]
4.0mm	IEC-J-4-300	.118 [3.00]

IEC-E

FLANGED RIGHT ANGLE PCB MOUNT



IEC-EW-4



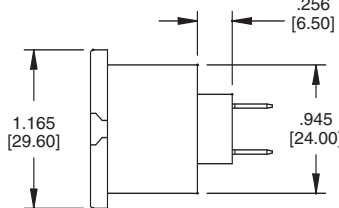
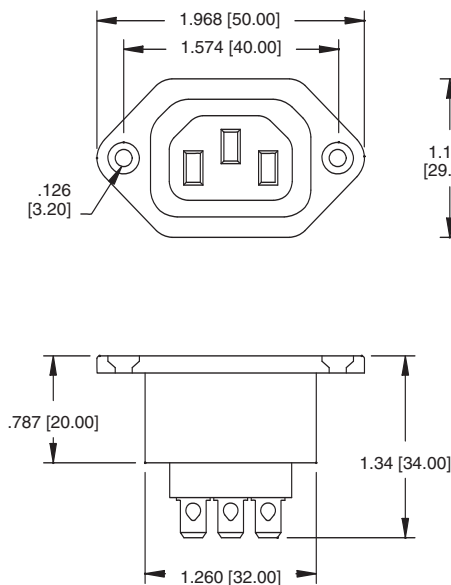
Recommended Panel Cut-Out

DIMENSIONAL		
PART NO.	F	W
IEC-EW	.287 [7.30]	.276 [7.00]
IEC-EX	.287 [7.30]	.358 [9.10]
IEC-EY	.382 [9.70]	.276 [7.00]
IEC-EZ	.382 [9.70]	.358 [9.10]

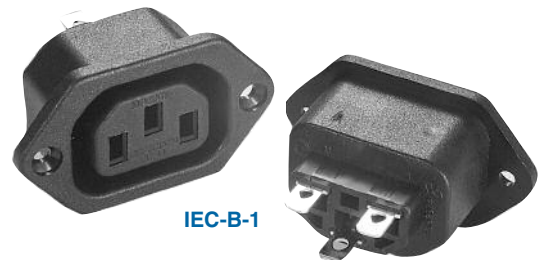
Recommended PCB Layout

IEC-B

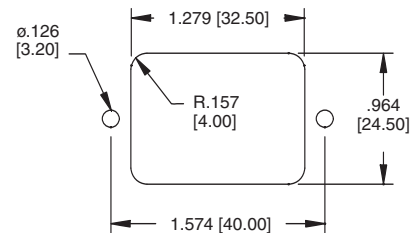
FLANGED SCREW ON PANEL MOUNT



Cross Section



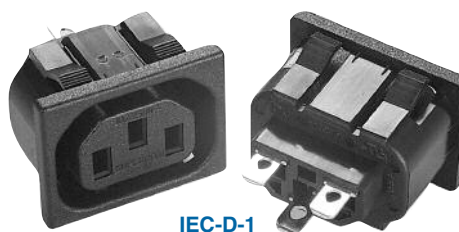
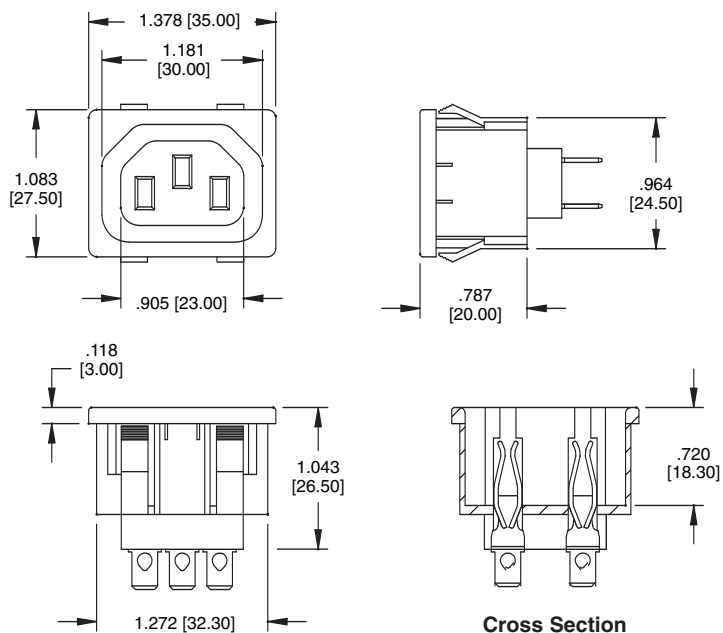
IEC-B-1



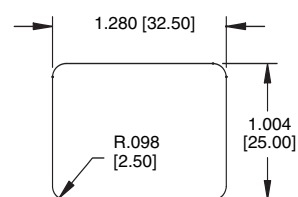
Recommended Panel Cut-Out

TERMINAL OPTIONS		
1	2	3
.187 Q.C.	.250 Q.C.	.157 Solder

IEC-D UNIVERSAL PANEL SNAP



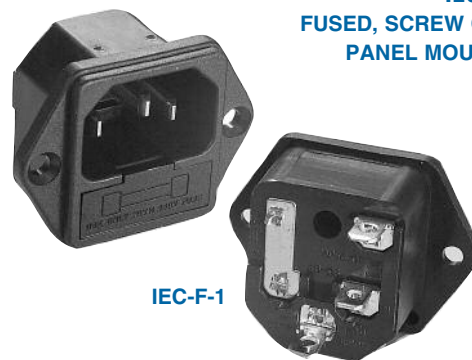
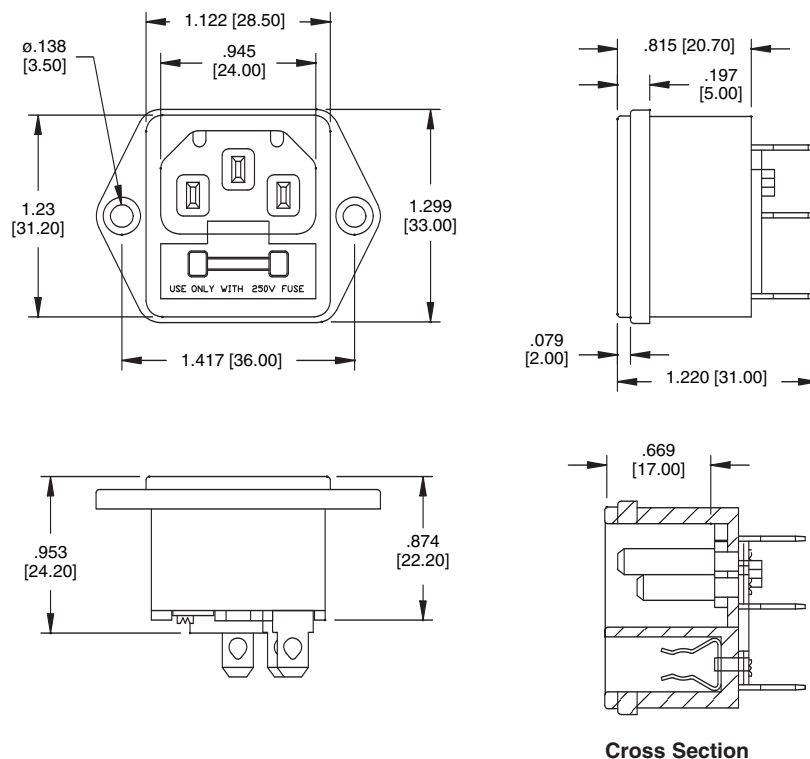
IEC-D-1



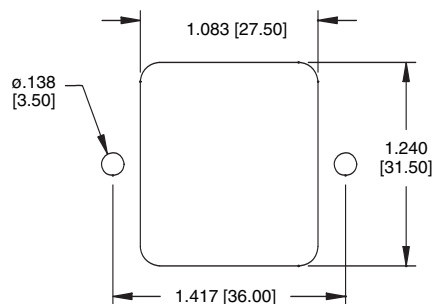
**Recommended Panel Thickness:
0.8mm - 3.0mm**

TERMINAL OPTIONS		
1	2	3
.187 Q.C.	.250 Q.C.	.157 Solder

IEC-F FUSED, SCREW ON PANEL MOUNT



IEC-F-1



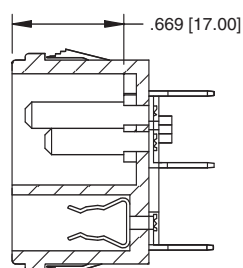
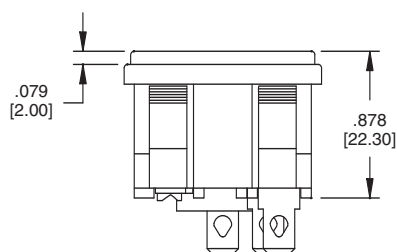
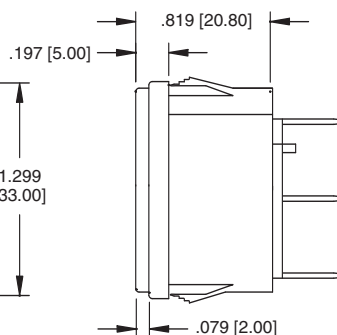
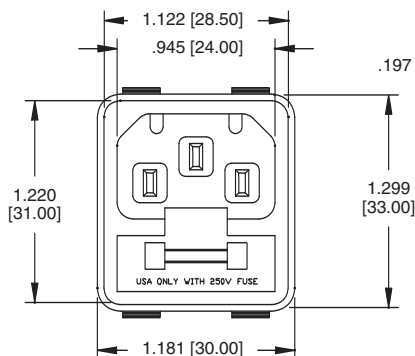
Recommended Panel Cut-Out

IEC-G

FUSED WITH UNIVERSAL
PANEL SNAP

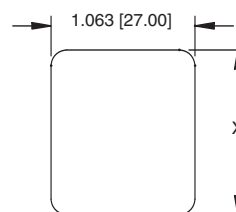


IEC-G-1



Cross Section

PANEL THICKNESS	DIM X
.031-.071 [0.8-1.8]	1.240 [31.50]
.075-.126 [1.9-3.2]	1.248 [31.70]

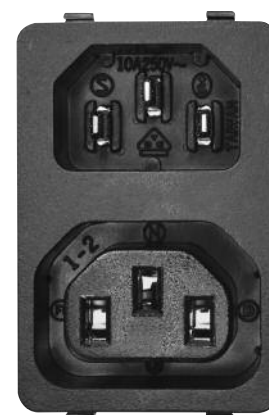


Panel thickness:
0.8mm - 3.2mm

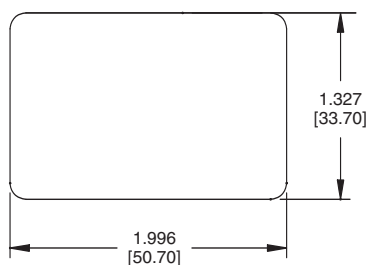
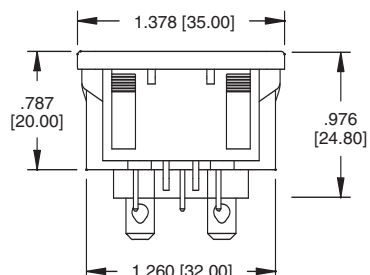
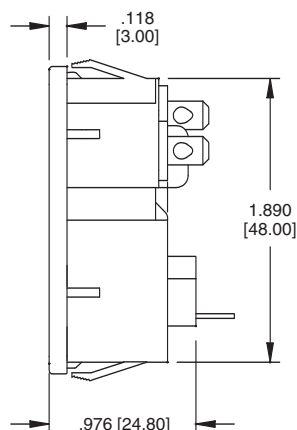
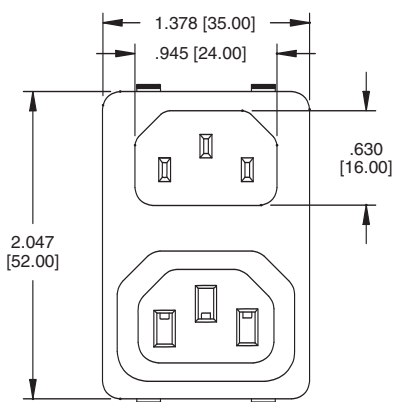
TERMINAL OPTIONS		
1	2	3
.187 Q.C.	.250 Q.C.	.157 Solder

IEC-HS

FUSED INLET & OUTLET
WITH UNIVERSAL
PANEL SNAP



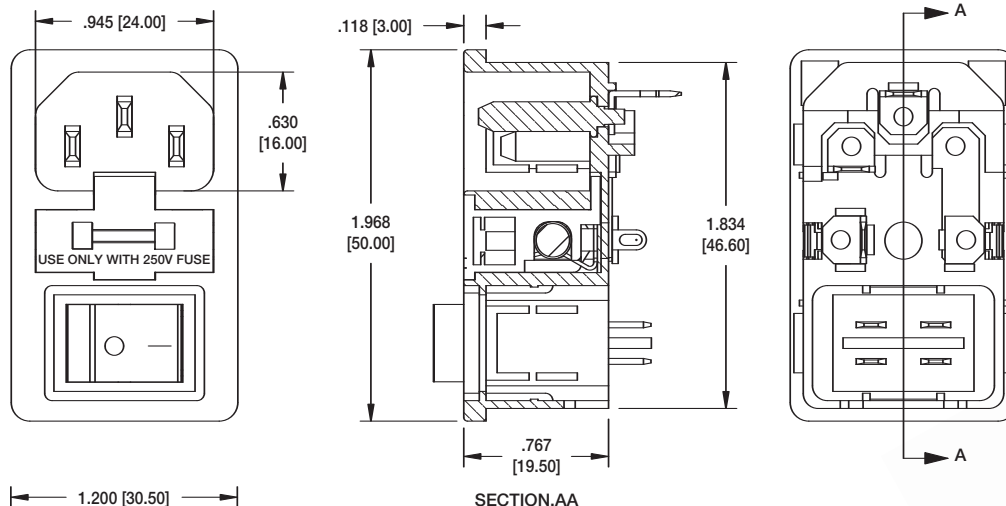
IEC-HS-1



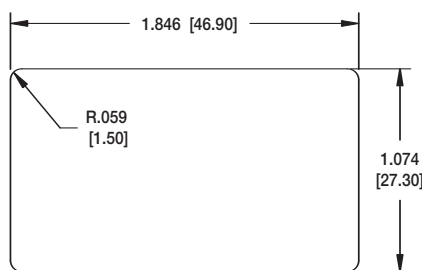
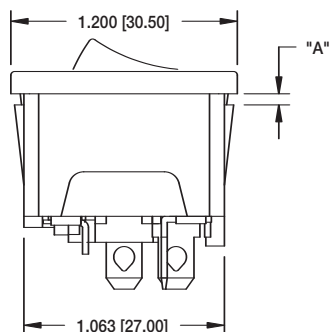
Recommended Panel Cut-Out

IEC-GS

FUSED INLET WITH SWITCH,
SNAP IN PANEL MOUNT



PART NUMBER	DIM "A"
IEC-GS-1-100	.039 [1.00]
IEC-GS-1-150	.059 [1.50]
IEC-GS-1-200	.079 [2.00]



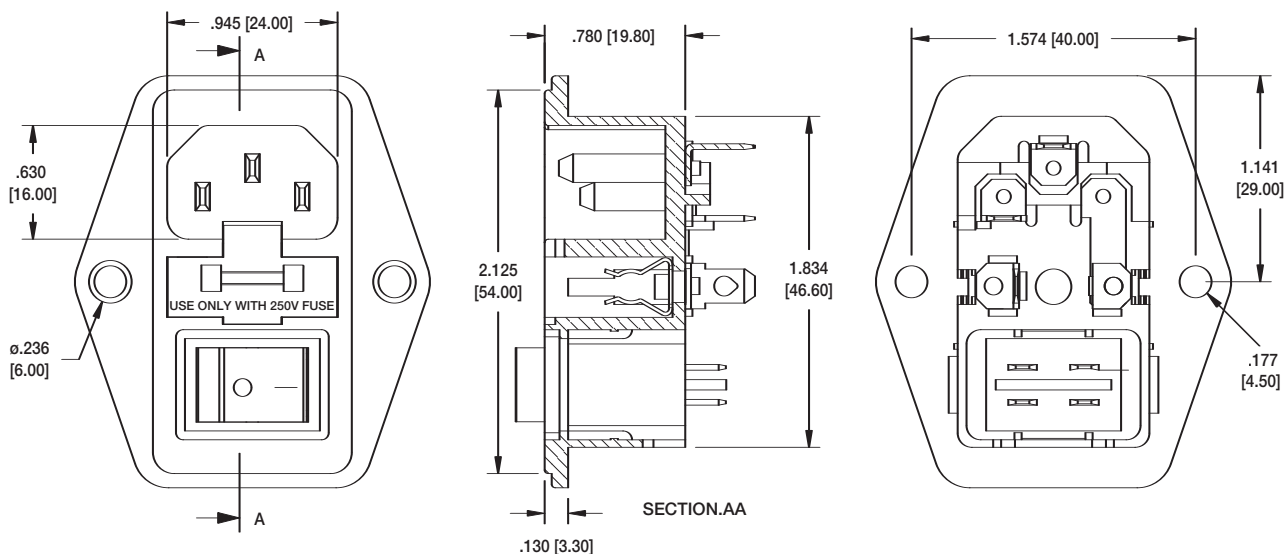
Recommended Panel Cut-Out



IEC-GS-1-100

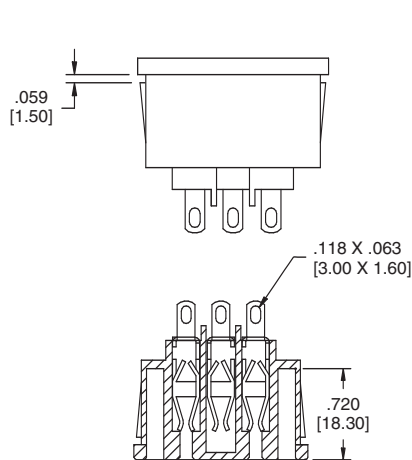
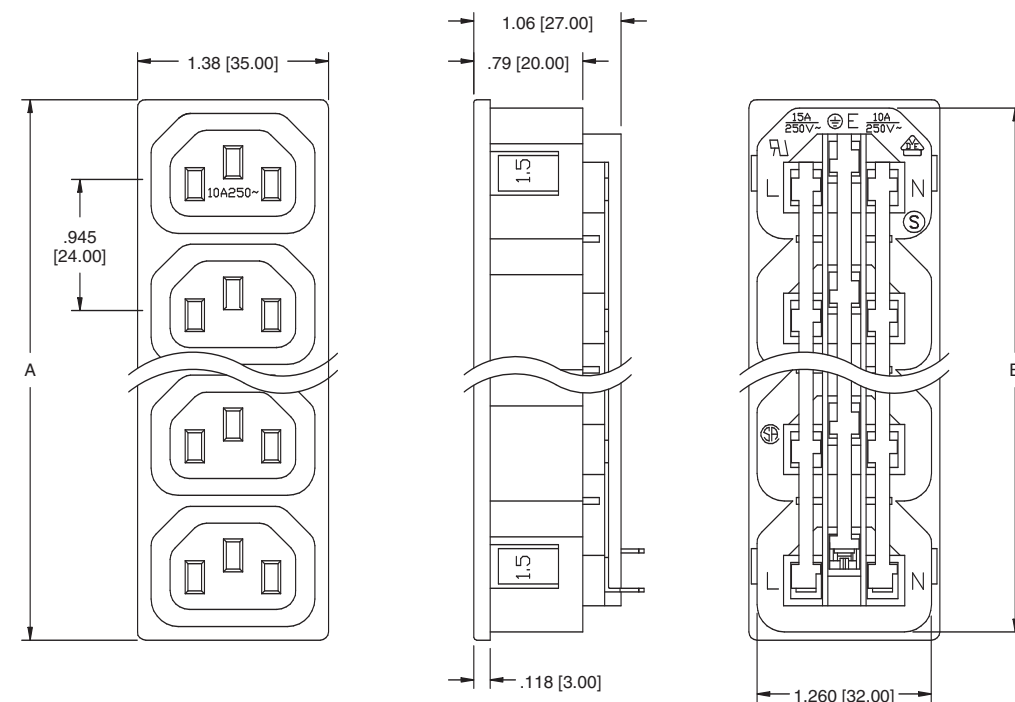
IEC-FS

FUSED INLET WITH SWITCH,
SCREW ON PANEL MOUNT



IEC-D-S

STACKED OUTLETS WITH
DEDICATED PANEL SNAPS



Cross Section

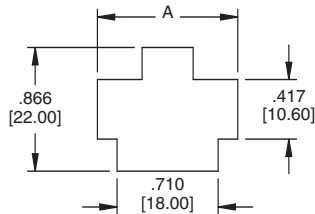
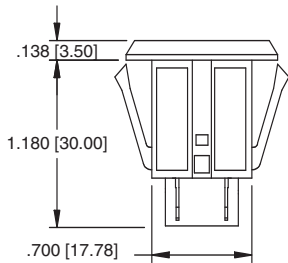
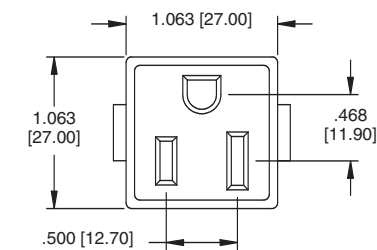
Recommended Panel Cut-Out



IEC-D-S4-150

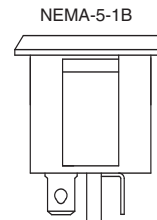
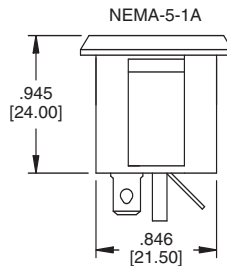
DIMENSIONS				
PART NUMBER	PORTS	A	B	C
IEC-D-S2-150	2	2.007 [51.00]	1.890 [48.00]	1.901 [48.30]
IEC-D-S3-150	3	2.953 [75.00]	2.835 [72.00]	2.846 [72.30]
IEC-D-S4-150	4	3.897 [99.00]	3.780 [96.00]	3.791 [96.30]
IEC-D-S5-150	5	4.842 [123.00]	4.724 [120.00]	4.736 [120.30]
IEC-D-S6-150	6	5.787 [147.00]	5.670 [144.00]	5.681 [144.30]
IEC-D-S7-150	7	6.732 [171.00]	6.614 [168.00]	6.626 [168.30]

*PART NUMBERS SHOWN ARE FOR 1.5mm PANEL THICKNESS. CONSULT FACTORY FOR OTHER PANEL THICKNESSES REQUIREMENTS



**Recommended Panel Cut-Out For
1.50mm Panel Thickness**

PANEL THICKNESS	DIM. A
.031 [0.80]	.945 [24.00]
.039 [1.00]	.968 [24.60]
.047 [1.20]	.992 [25.20]
.063 [1.60]	1.031 [26.20]

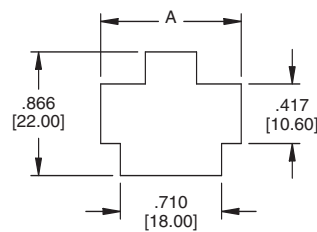
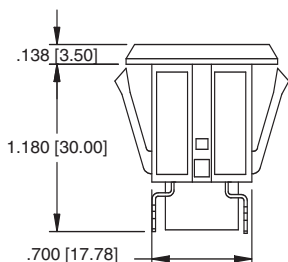
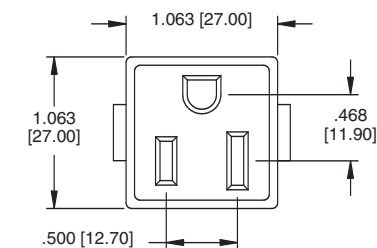


OPTIONAL STRAIGHT GROUND

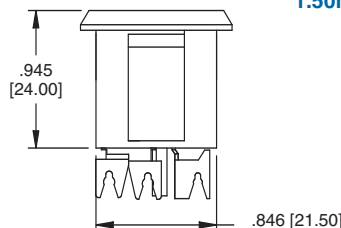


NEMA-5-1

**NEMA-5-1
UNIVERSAL
PANEL SNAP**

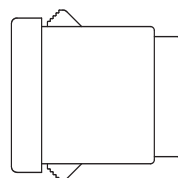
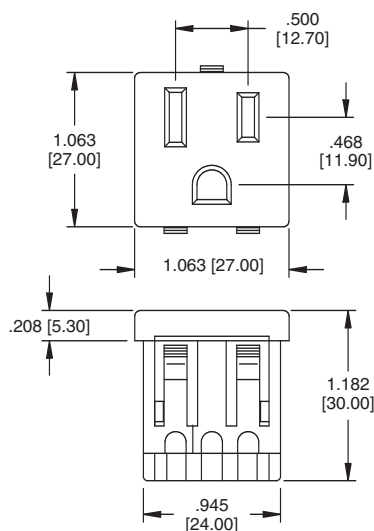


**Recommended
Panel Cut-Out For
1.50mm Panel Thickness**



NEMA-5-2

**NEMA-5-2
UNIVERSAL
PANEL SNAP
12-14 Awg**



**Recommended Panel Cut-Out For
Panel 0.8mm - 1.50mm**

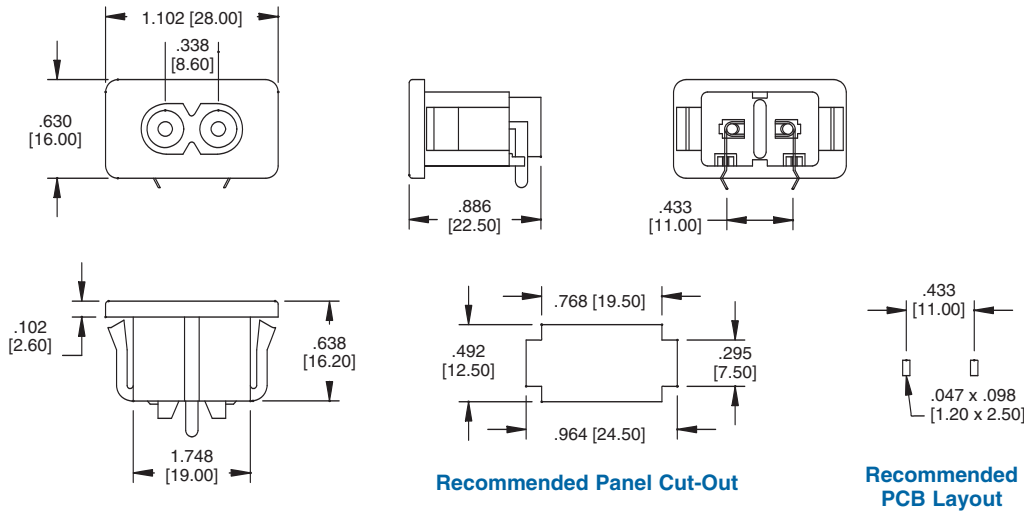


NEMA-5-3

**NEMA-5-3
UNIVERSAL
PANEL SNAP**

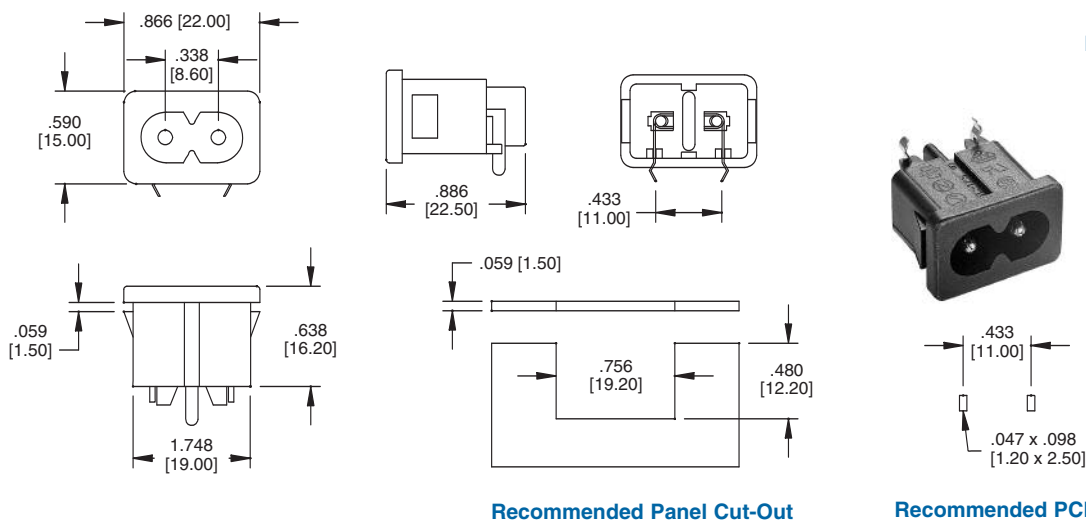
IEC-NA-4

UNIVERSAL PANEL SNAP



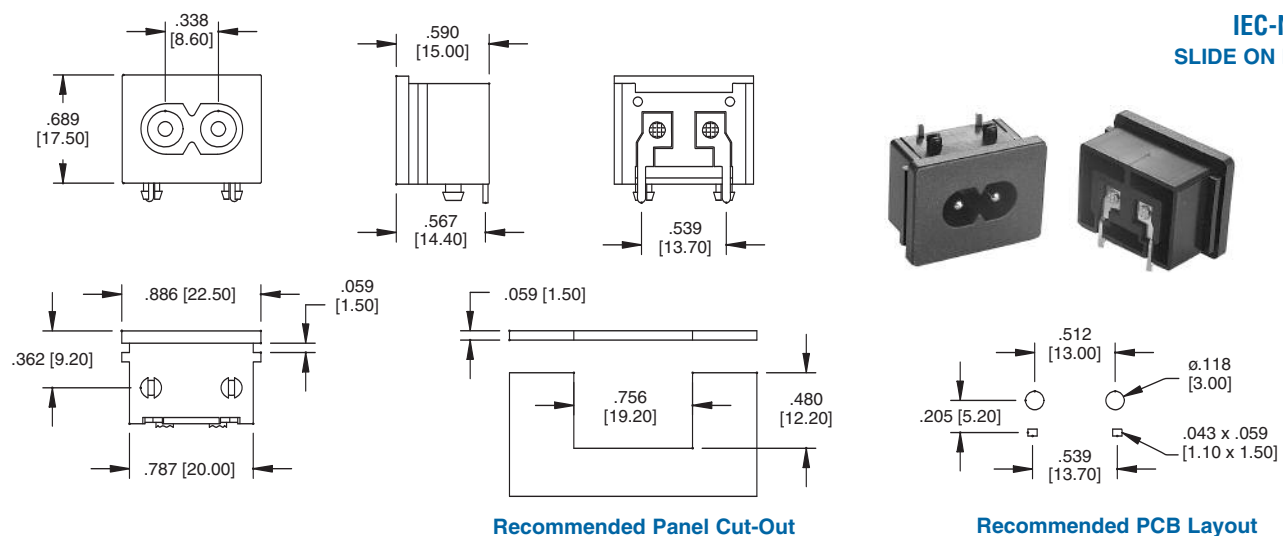
IEC-NB-4

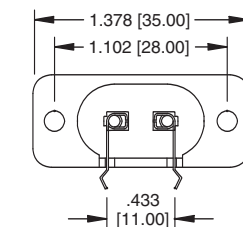
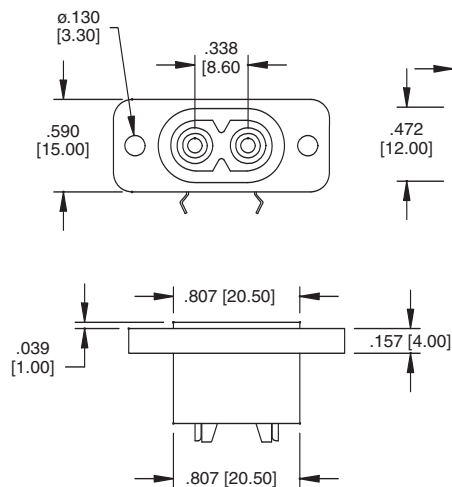
DEDICATED PANEL SNAP



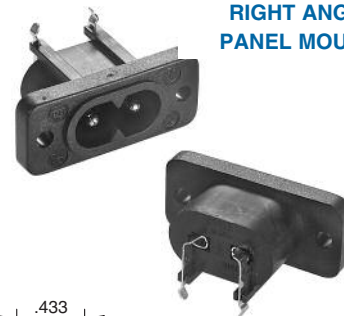
IEC-NB-A-4

SLIDE ON PANEL

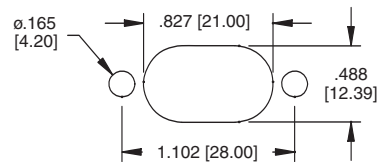




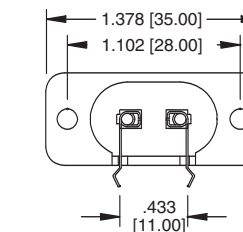
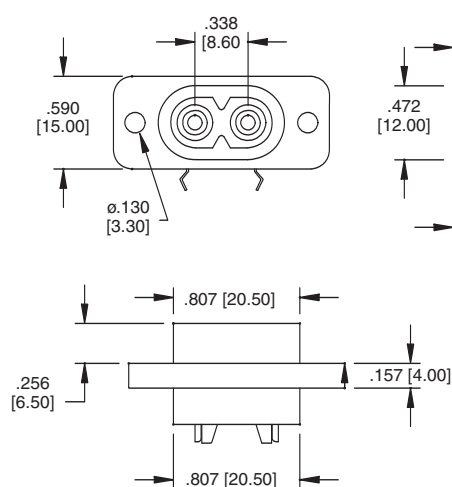
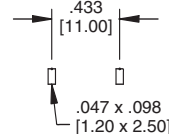
IEC-NC-4
RIGHT ANGLE
PANEL MOUNT



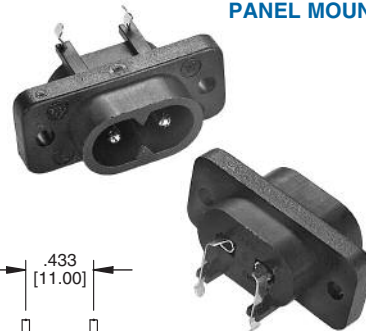
**Recommended
PCB Layout**



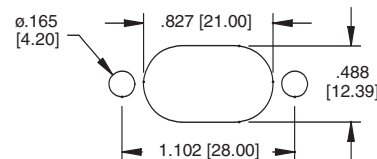
**Recommended
Panel Cut-Out**



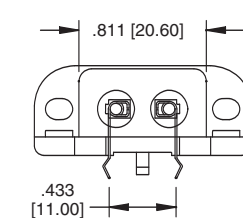
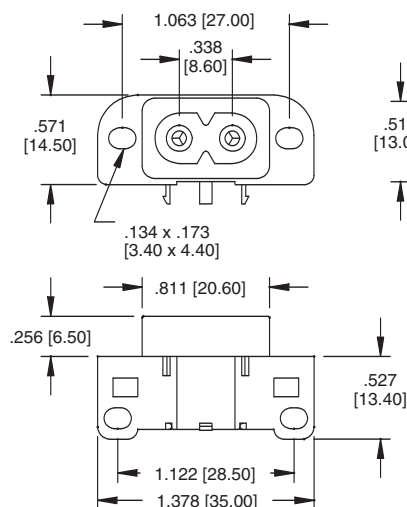
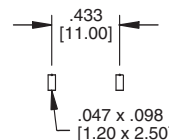
IEC-NC-A-4
RIGHT ANGLE
PANEL MOUNT



**Recommended
PCB Layout**



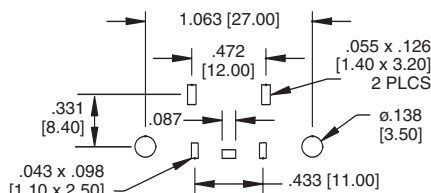
**Recommended
Panel Cut-Out**



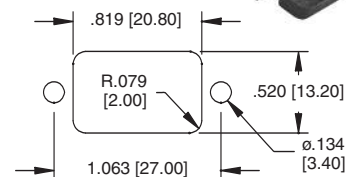
IEC-ND-4
RIGHT ANGLE
PANEL MOUNT



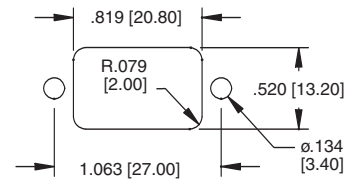
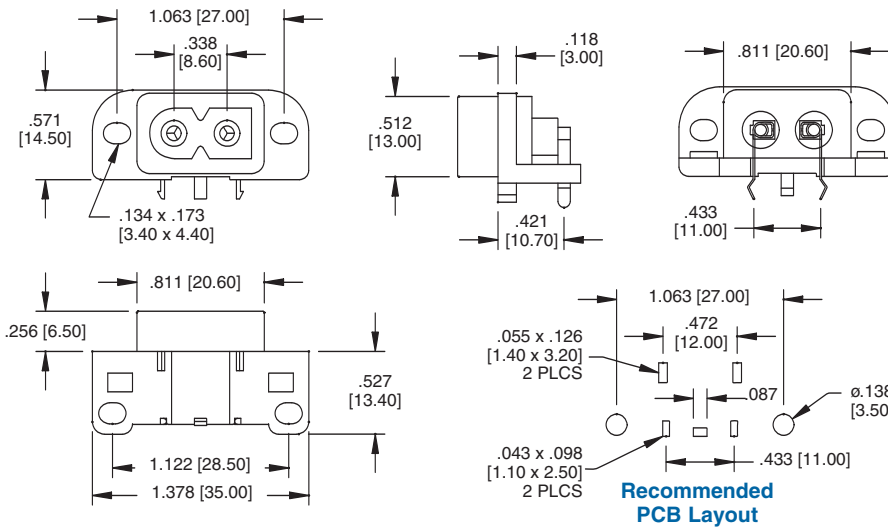
**Recommended
PCB Layout**



**Recommended
Panel Cut-Out**

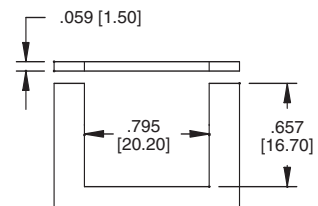
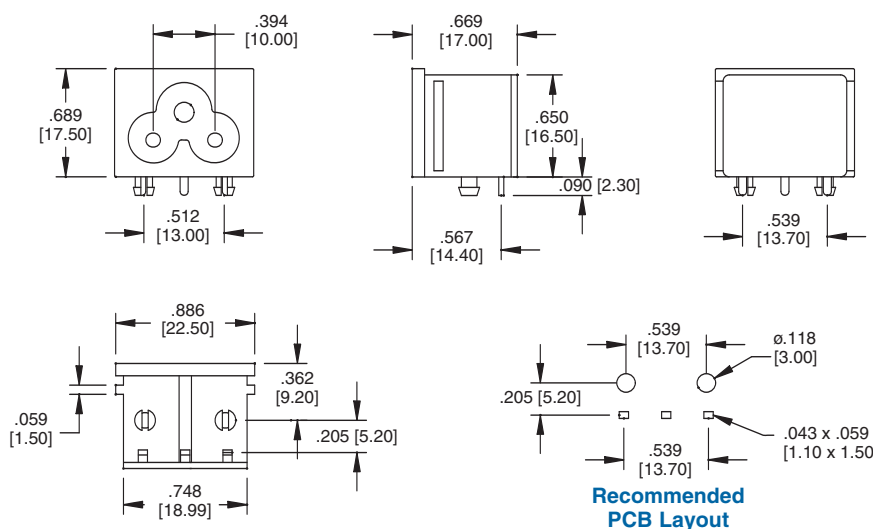


IEC-NF-4 RIGHT ANGLE PANEL MOUNT



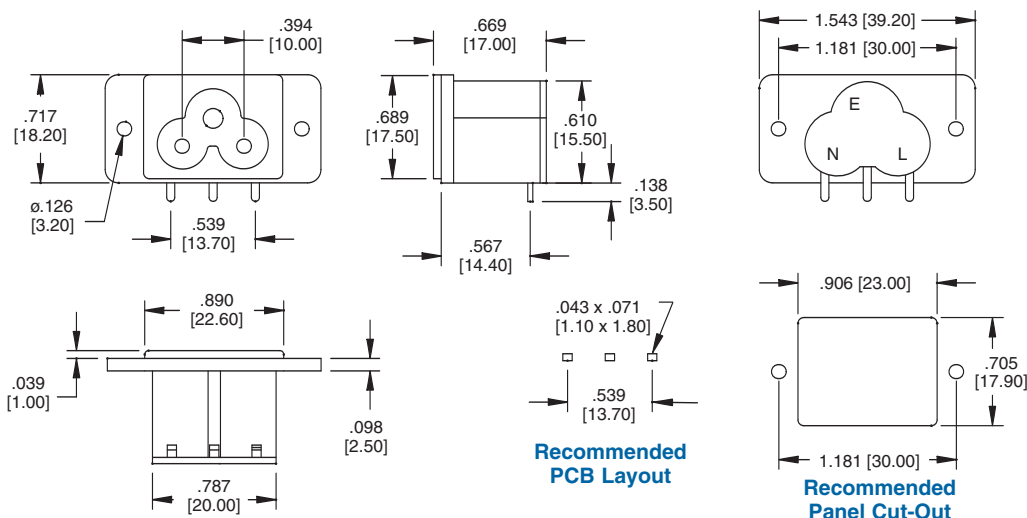
Recommended Panel Cut-Out

IEC-NH-4 RIGHT ANGLE SLIDE ON PANEL



Recommended Panel Cut-Out

IEC-NH-A-4 RIGHT ANGLE SCREW ON PANEL MOUNT



Recommended Panel Cut-Out