

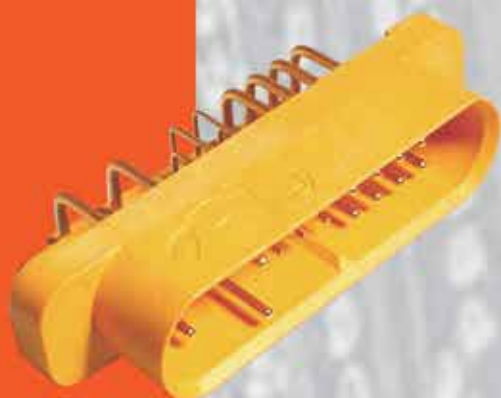
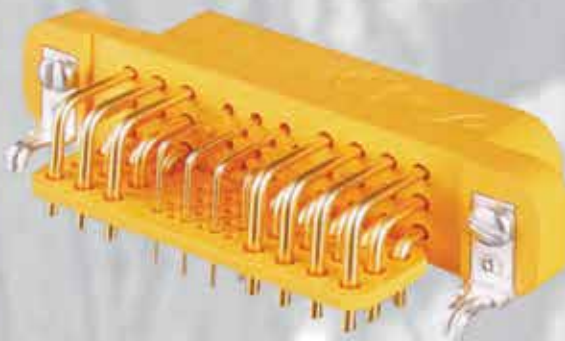
GOLDFISH

Power Connectors



Positronic®

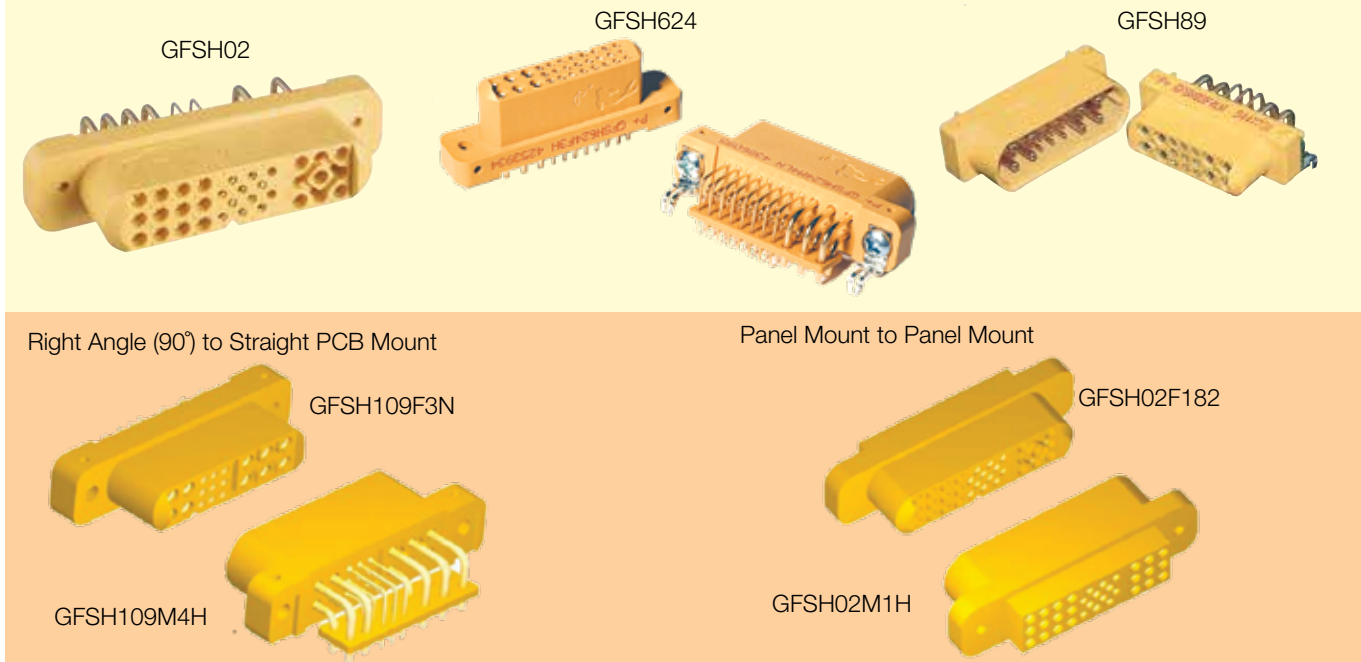
an Amphenol company



Goldfish Power Connectors



Typical Examples of Goldfish Power Connectors



Goldfish Power Connector Features !!!

- **Excellent Power Density**
- **Blind mate - Float mounting**
- **20, 30, 35 and 50 ampere power contacts**
- **Hot Plug Capability**
- **AC, DC and Signal solid machined contacts in one connector**
- **Safety Agency Recognition**

Unless otherwise specified, dimensional tolerances are:

- 1) ± 0.03 [0.001] for male contact mating diameters.
- 2) ± 0.08 [0.003] for contact termination diameters
- 3) ± 0.13 [0.005] for all diameters
- 4) ± 0.38 [0.015] for all other dimensions

All dimensions are in millimeters [inches]

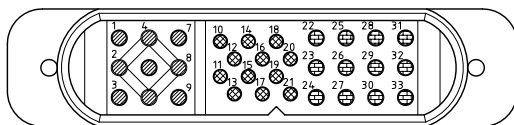
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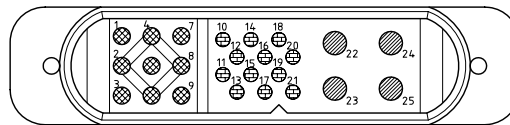
Connector Versions and Technical Characteristics



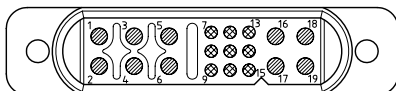
Connector Versions (face view of male)



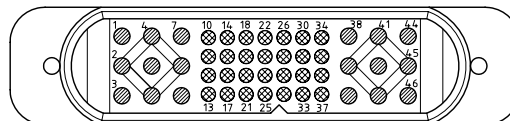
GFSH02: Fully populated
Twenty-one (21) Size 16 power contacts
Twelve (12) Size 20 signal contacts



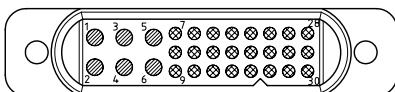
GFSH435: Fully populated
Four (4) size 12 power contacts
Nine (9) size 16 power contacts
Twelve (12) size 20 signal contacts



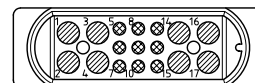
GFSH109: Fully populated
Ten (10) Size 16 power contacts
Nine (9) Size 22 signal contacts



GFSH928: Fully populated
Eighteen (18) Size 16 power contacts
Twenty-eight (28) Size 22 signal contacts



GFSH624: Fully populated
Six (6) size 16 power contacts.
Twenty four (24) size 22 signal contacts.



GFSH89: Fully populated
Eight (8) Size 16 power contacts
Nine (9) Size 22 signal contacts

Technical Characteristics

Materials and Finishes:

Insulator: Glass-filled nylon, UL 94V-0. Color: Orange.
Contacts: Precision machined copper alloy with gold over nickel plate. Other finishes available upon request.
Precision formed copper alloy with selective gold over nickel plate at mating end, and tin over nickel plate at termination end

Electrical Characteristics:

Contact Current Ratings (per UL 1977):
Size 12 Contacts: 35 amperes, continuous (standard material).
50 amperes, continuous (high conductivity material).
Size 16 Contacts: 20 amperes, continuous (standard material).
30 amperes, continuous (high conductivity material).
Size 20 Contacts: 5 amperes, nominal (standard material).
Size 22 Contacts: 3 amperes, nominal (standard material).
1 amperes, nominal (precision-formed).
Initial Contact Resistance (max.) per IEC 60512-2, Test 2b:
Size 12 Contacts: 0.001 ohms (standard material).
Size 12 Contacts: 0.0004 ohms (high conductivity material).
Size 16 Contacts: 0.0016 ohms (standard material).
0.0007 ohms (high conductivity material).
Size 20/22 Contacts: 0.005 ohms (standard material).
Size 22 Contacts: 0.009 ohms (precision-formed).
Insulation Resistance (per IEC 60512-2, Test 3a): 5 G ohms min.

Proof Voltage:

Power Contacts: 1500 V r.m.s.
1300 V r.m.s. (GFSH89 and GFSH624)
Signal Contacts: 1000 V r.m.s.

Working Voltage:

Power Contacts: 500 V r.m.s.
150 V r.m.s. (GFSH89 and GFSH624)
Signal Contacts: 333 V r.m.s.

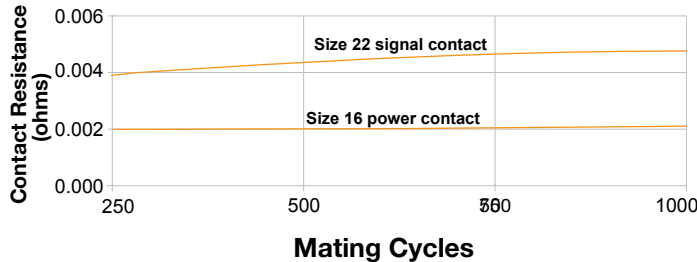
Hot Pluggable (50 couplings per UL 1977, paragraph 15):

Contact Performance and Temperature Rise Curves



CONTACT PERFORMANCE

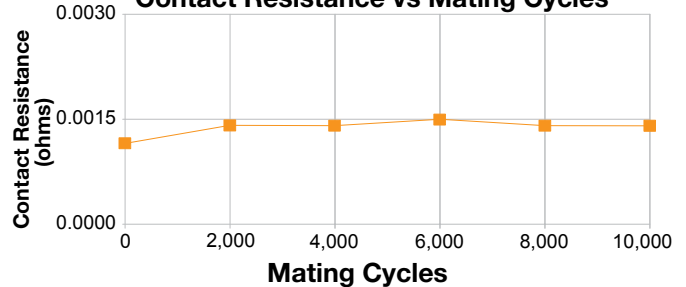
Contact Resistance vs Mating Cycles



Humidity condition per EIA-364-31B, Method II (condition A) after 250, 500 and 1,000 cycles.
Contact resistance tested per IEC 60512-2, Test 2b.
Connectors tested: GFSH624.

Note: This information is supplied for reference. Contact wear and change in contact resistance may vary from one application to another. Contact technical sales to discuss details.

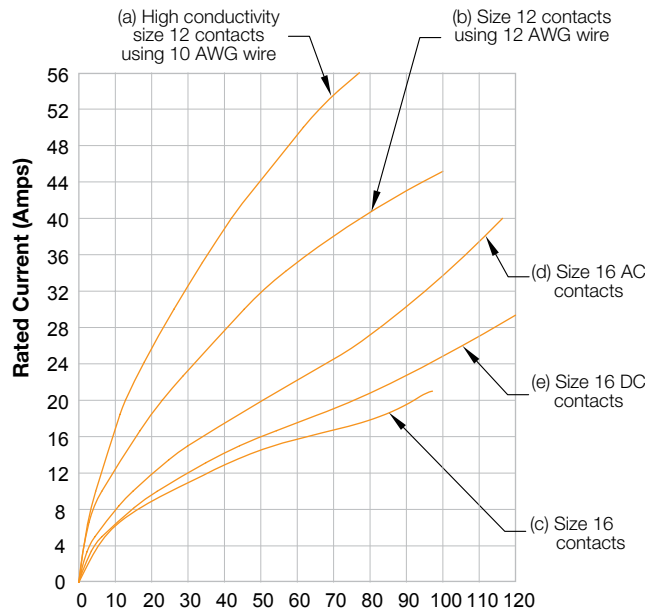
Contact Resistance vs Mating Cycles



Contact resistance test under 10,000 cycles mechanical operation using GFSH89 with 12 AWG wires and size 16 contacts under load (not utilizing signal contacts).
Tested per IEC 60512-2, Test 2b. Connectors tested: GFSH89.

TEMPERATURE RISE (°C) CURVES

Goldfish Versions 02, 435 and 928



1) Connectors tested: GFSH435.

Temperature curve developed using wires of 10 AWG and 12 AWG.
For curve (a) and (b).
All size 12 contacts under load.

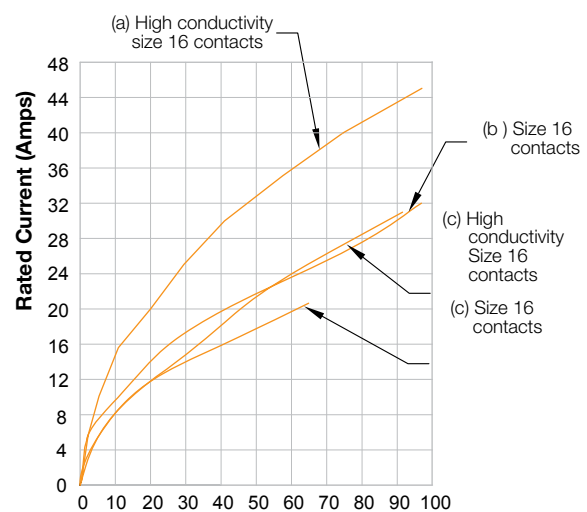
2) Connectors tested: GFSH928.

Temperature curve developed using wire of 12 AWG.
For curve (c).
All size 16 contacts under load.

3) Connectors tested: GFSH02.

Temperature curve developed using wire of 12 AWG.
For curve (d) and (e).
All size 16 contacts under load.

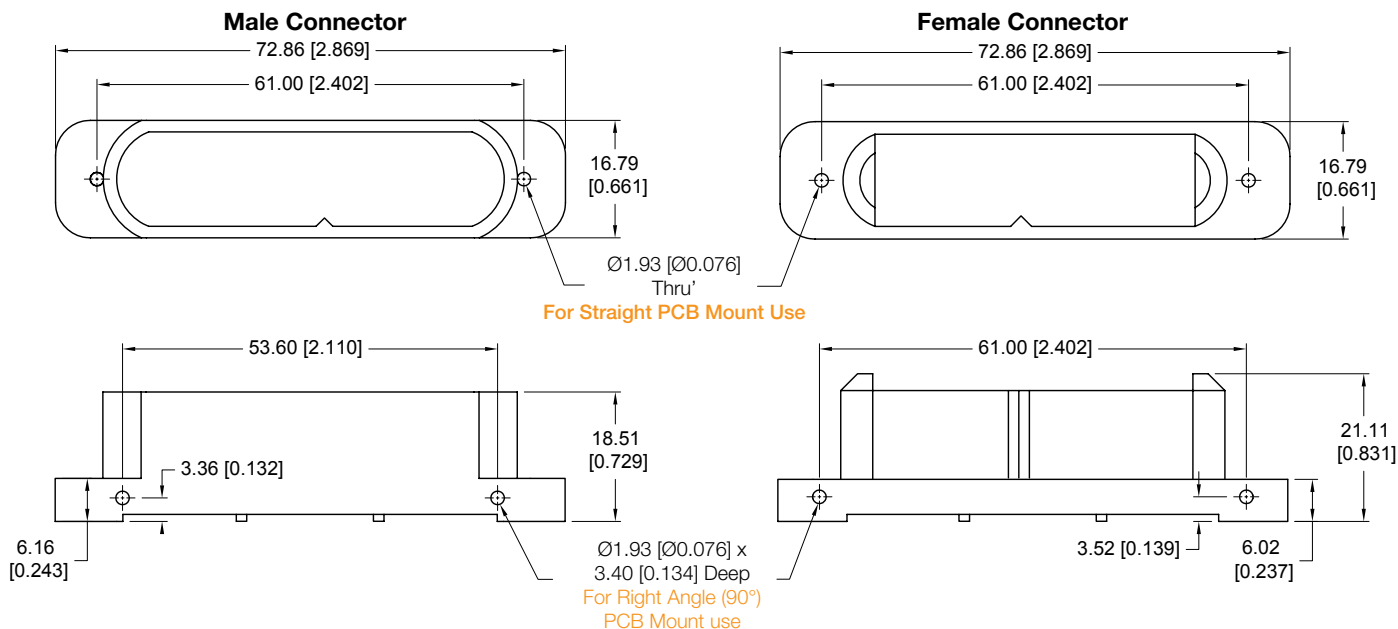
Goldfish Versions 109, 624 and 89



Straight and Right Angle (90°) PCB Mount Connectors for Versions 02, 435 and 928

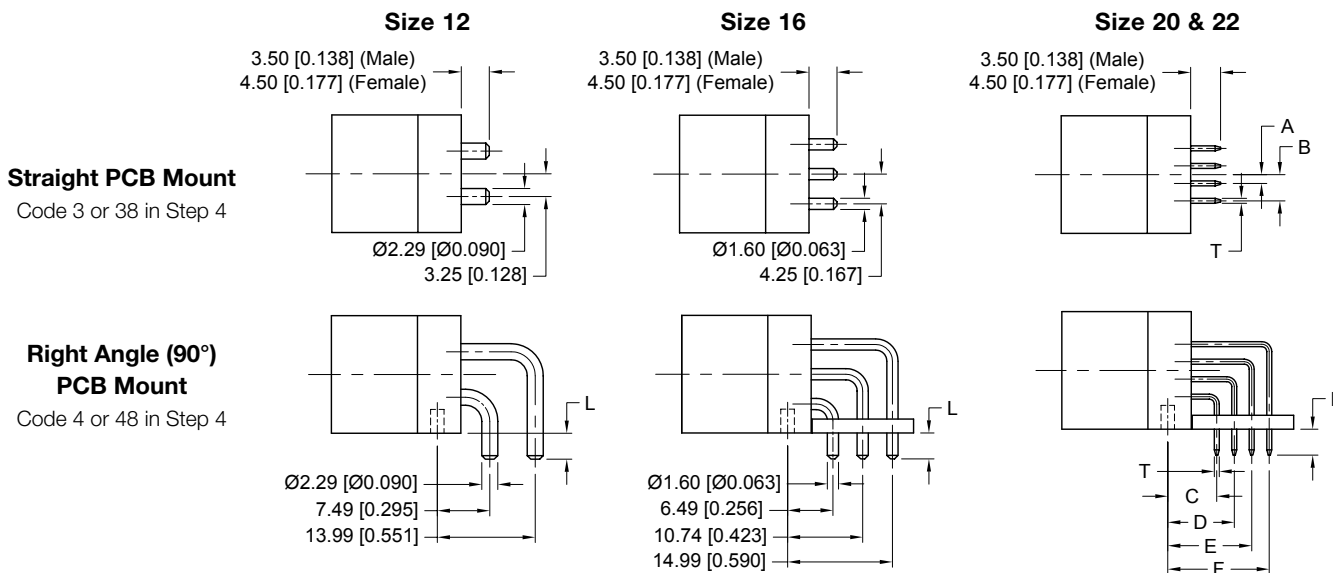


OUTLINE DIMENSIONS FOR 02, 435 AND 928



CONTACT TERMINATION DIMENSIONS FOR 02, 435 AND 928

Code 3, 38, 4 or 48 in Step 4



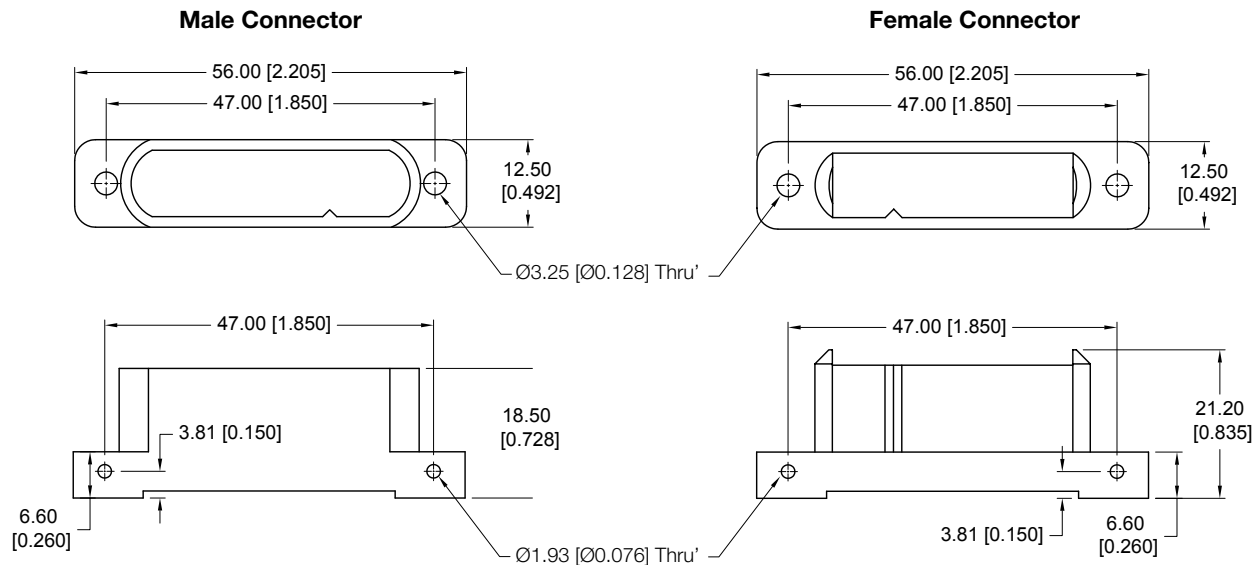
DIM	GOLDFISH 02 / 435	GOLDFISH 928
A	1.25 [0.049]	1.35 [0.053]
B	3.75 [0.148]	4.05 [0.159]
C	6.99 [0.275]	6.49 [0.256]
D	9.49 [0.374]	9.32 [0.367]
E	11.99 [0.472]	12.16 [0.479]
F	14.49 [0.570]	14.99 [0.590]
T	Ø0.71 [Ø0.028]	
L	Male	3.70 [0.146]
	Female	4.50 [0.177]

Connector shown is male. Unless otherwise specified, above dimensions are identical to female connector.

Straight and Right Angle (90°) PCB Mount Connectors for Versions 109 and 624



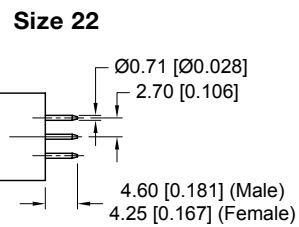
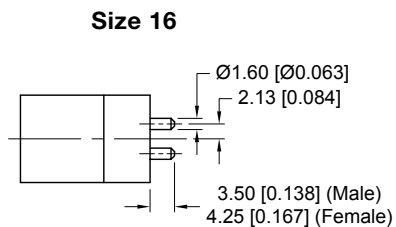
OUTLINE DIMENSIONS FOR VERSIONS 109 AND 624



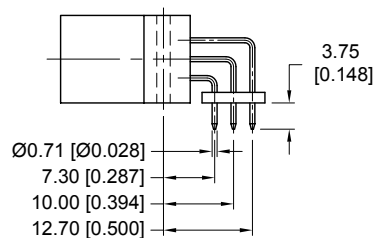
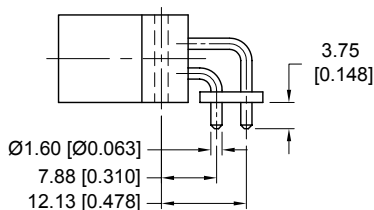
CONTACT TERMINATION DIMENSIONS FOR VERSIONS 109 AND 624

Code 3, 37, 4 or 47 in Step 4

Straight PCB Mount
 Code 3 or 37 in Step 4



**Right Angle (90°)
 PCB Mount**
 Code 4 or 47 in Step 4

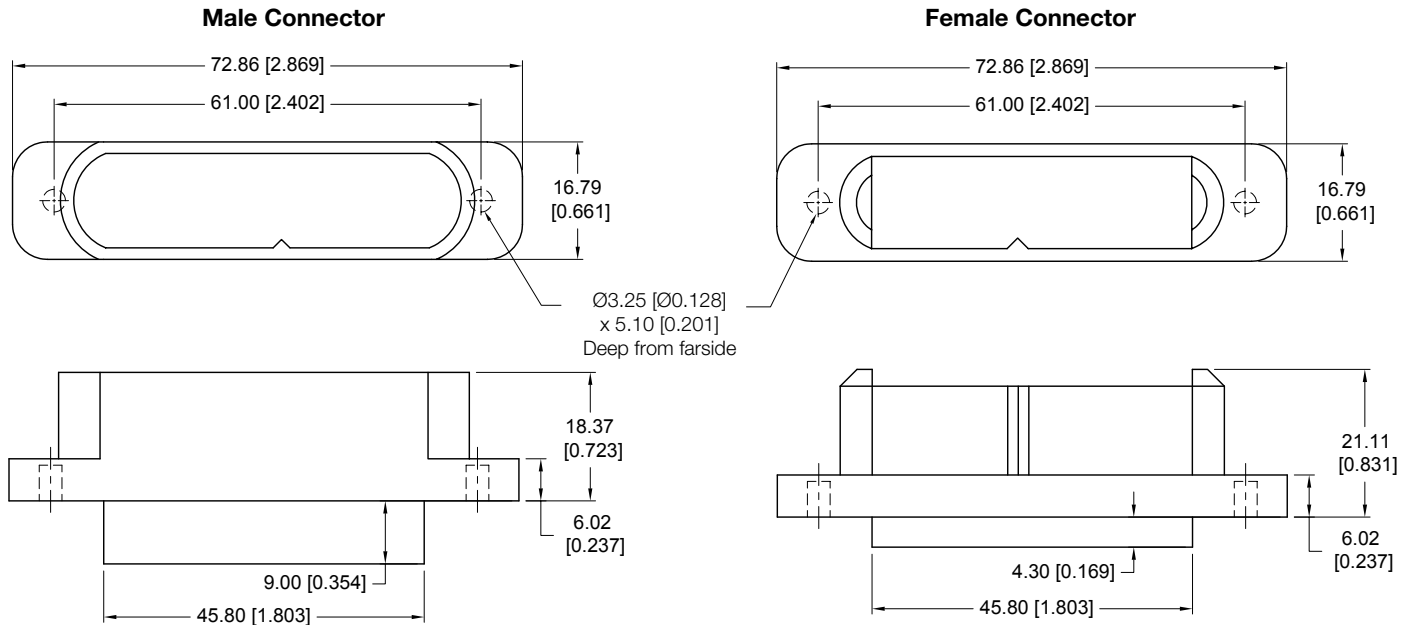


Panel Mount Connectors with Removable Contacts for Versions 02, 435, 928, 109 and 624



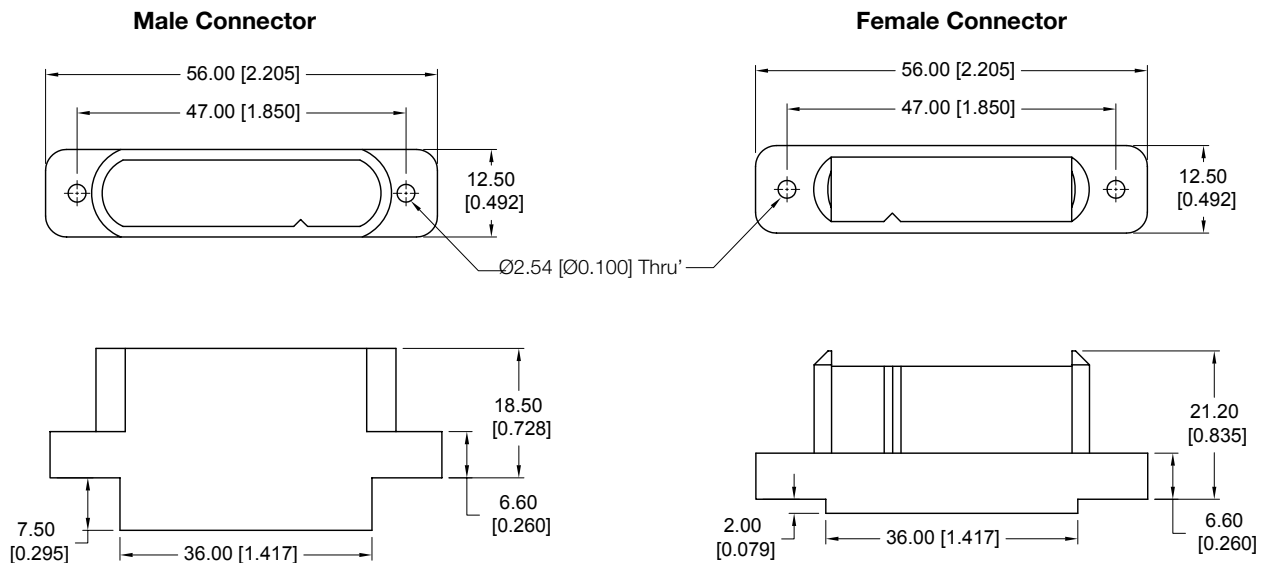
OUTLINE DIMENSIONS FOR VERSIONS 02, 435 AND 928

Code 1 in Step 4



OUTLINE DIMENSIONS FOR VERSIONS 109 AND 624

Code 1 in Step 4

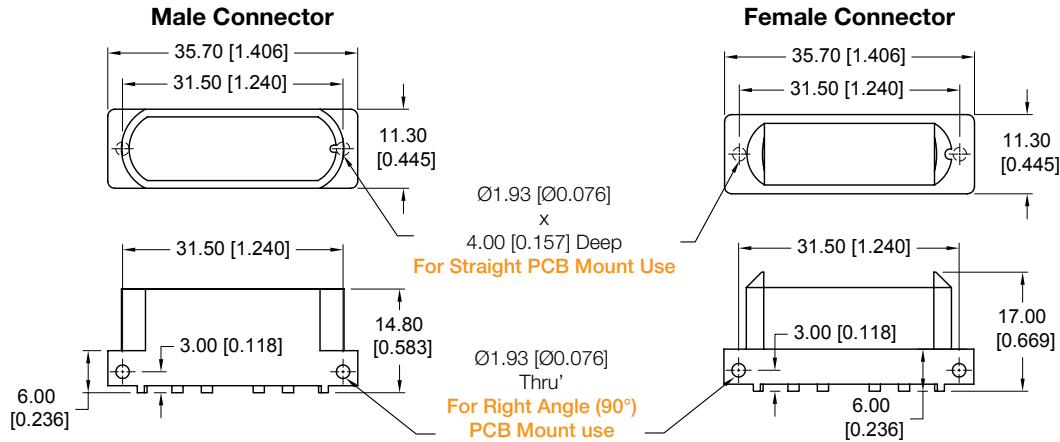


Removable contacts should be allowed to float after installing in connector body for optimum mating.
 Consult Technical Sales if alignment insert for male contacts is desired.
 Alignment insert for GFSH89, GFSH109 and GFSH928 are available. Consult Technical Sales for other versions.

Straight and Right Angle (90°) PCB Mount Connectors and Panel Mount for Version 89

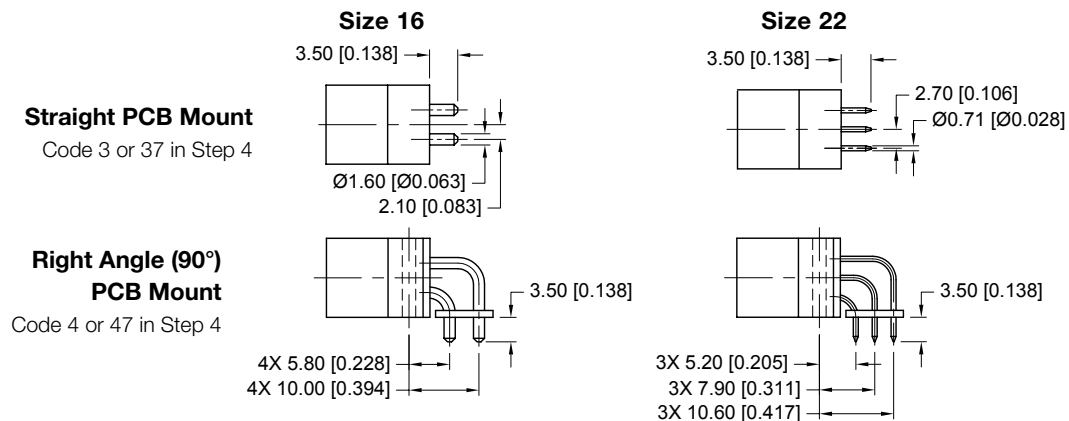


OUTLINE DIMENSIONS FOR VERSION 89 STRAIGHT AND RIGHT ANGLE (90°) PCB MOUNT CONNECTOR



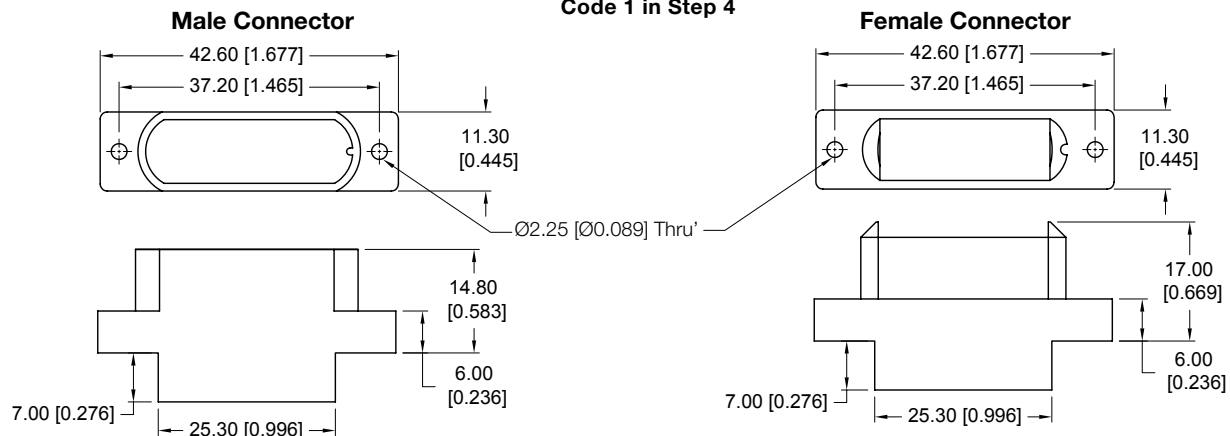
CONTACT TERMINATION DIMENSIONS FOR VERSION 89

Code 3, 37, 4 or 47 in Step 4



OUTLINE DIMENSIONS FOR VERSION 89 PANEL MOUNT CONNECTORS

Code 1 in Step 4

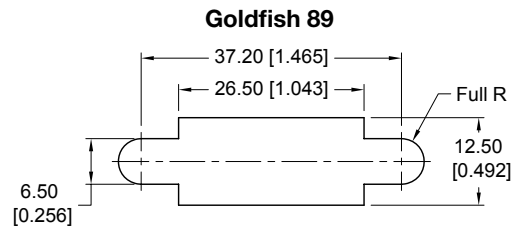
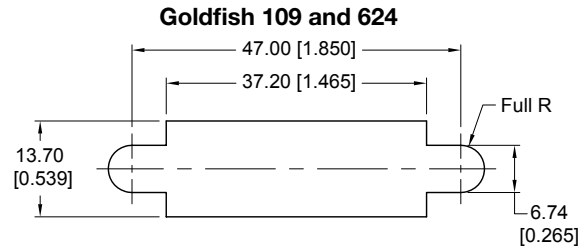
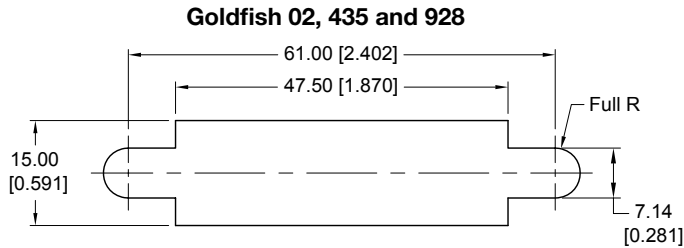


Removable contacts should be allowed to float after installing in connector body for optimum mating.
Contact Technical Sales for additional polarization features for panel mounting.

Panel Cutout Dimensions For Panel Mount Connectors

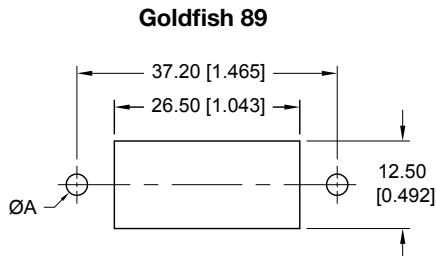
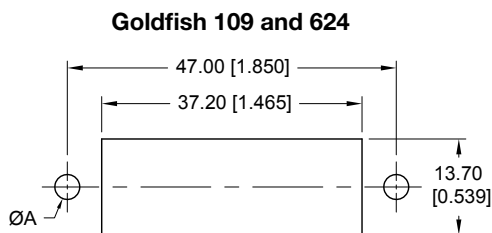
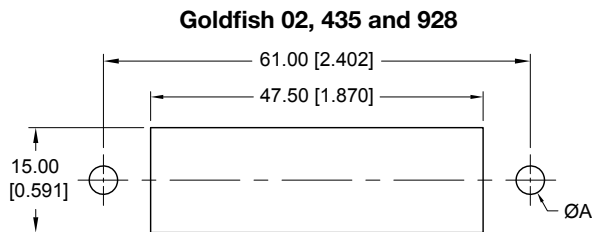


PANEL CUTOUT DIMENSIONS FOR FLOAT BUSHING



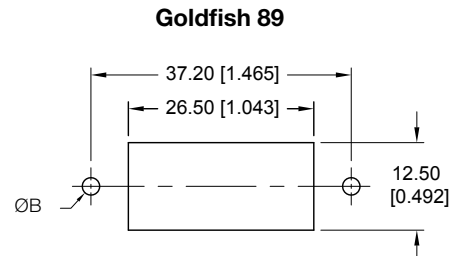
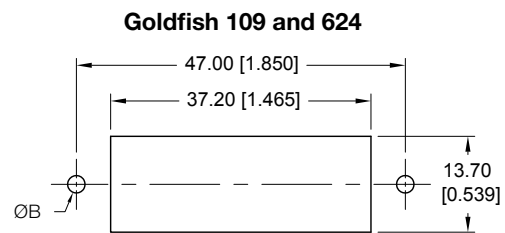
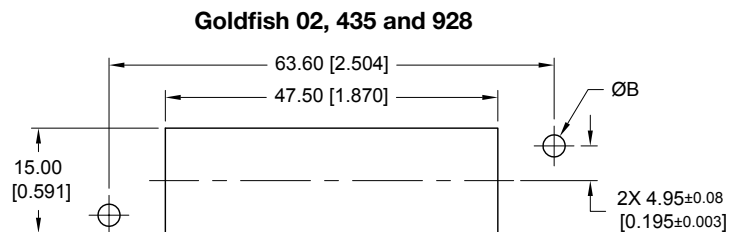
PANEL CUTOUT DIMENSIONS FOR MOUNTING SCREWS AND JACKSCREWS

MOUNTING SCREWS



MOUNTING SCREWS	ØA ±0.08 [0.003]
02, 435 and 928	4.06 [0.160]
109 and 624	3.56 [0.140]
89	3.05 [0.120]

JACKSCREWS



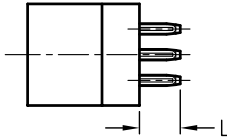
JACKSCREWS	ØB ±0.08 [0.003]
02, 435 and 928	3.15 [0.124]
109 and 624	2.49 [0.098]
89	2.49 [0

Compliant Press-Fit Terminations For Straight PCB Mount Connectors

Code 93 or 94 in Step 4

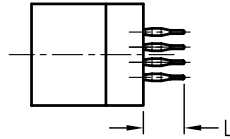


CONTACT TERMINATION DIMENSIONS



Bi-Spring Power
size 16 contacts
per IEC 60352-5

Connector shown is male. Unless otherwise specified,
above dimensions are identical to female connector.



Omega Signal
size 20/ 22 contacts
Patent No. 6,260,268

Code 93 or 94 in Step 4



CODE	L	PCB THICKNESS
93	5.72 [0.225]	2.29 to 4.45 [0.090 to 0.175]
94	7.04 [0.277]	4.45 [0.175] min

Note: Outline dimensions for Press-Fit Connectors are the same as those of Straight PCB Mount Versions.

For Suggested Straight Mount PCB Holes Sizes of Compliant Press-Fit Connectors, **please refer to SK6370** or consult Technical Sales for more information.

PRESS-FIT USER INFORMATION

Connectors-to-PCB installation instructions:

1. Choose the proper tooling. Insertion tooling and single contact repair tooling are available from Positronic.
2. Insert the connector into the PCB or backplane and seat connector fully with seating / support tool.
3. Secure the connector to the PCB or backplane using two self-tapping screws for plastic.

Need to repair a single contact because of damage in manufacturing, testing, or field use?

1. Choose the proper contact extraction tool.
2. Push the contact out with a firm, steady force. Remember, excessive force is not required.
3. Install a new contact with the proper contact insertion tool. You are done.

Connector Installation Tools: Ordering Information

Connector Variant	Seating Tool Part No.	Support Tool Part No.
GFSH02M93/94H	9513-309-2-0	9513-404-1-0
GFSH02F93/94H	9513-309-3-0	
GFSH109M93/94H	9513-309-4-0	9513-404-2-0
GFSH109F93/94H	9513-309-9-0	
GFSH435M93/94H	9513-309-10-0	9513-309-11-0
GFSH435F93/94H	9513-309-5-0	
GFSH624M93/94H	9513-309-12-0	9513-309-13-0
GFSH624F93/94H	9513-309-14-0	
GFSH89M93/94H	9513-309-7-0	9513-309-8-0
GFSH89F93/94H	9513-309-6-0	
GFSH928M93/94H	9513-309	



JACKSCREW SYSTEMS FOR VERSION 89

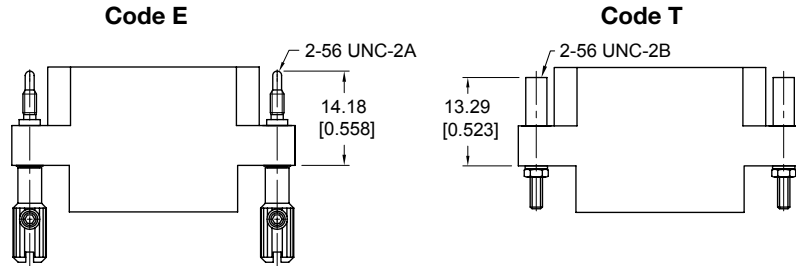
Code E or T in Step 5

Version 89

Panel Mount Only

Material: E - Stainless Steel, Passivated.
T - Stainless Steel, Passivated.

Hex Nut and Lockwashers
- Stainless Steel, Passivated.
Knob - Aluminium, Yellow Anodized.



JACKSCREW SYSTEMS FOR VERSION 109 AND 624

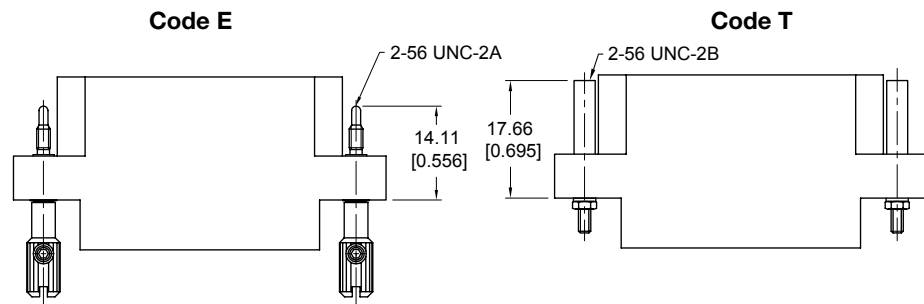
Code E or T in Step 5

Version 109 and 624

Panel Mount

Material: E - Stainless steel, passivated.
T - Stainless steel, passivated.

Hex Nut and Lockwashers
- Stainless steel, passivated.
Knob - Aluminium, yellow anodized.

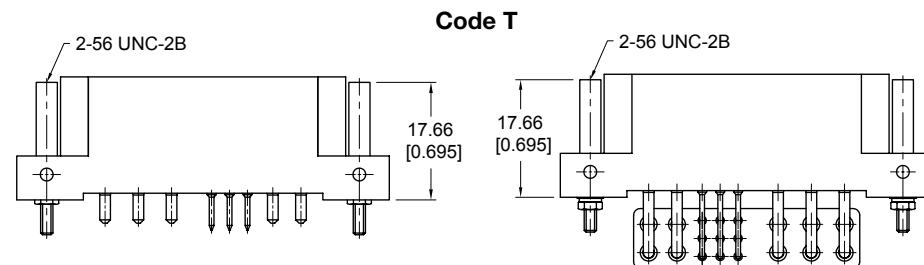


Version 109 and 624

Straight or Right Angle (90°)

Material: T - Stainless steel, passivated.

Hex Nut and Lockwashers
- Stainless steel, passivated.
For PCB version, only T is available.



Note: For GFSH624, only PCB male fixed jackscrew and Panel female rotating jackscrew is available.

JACKSCREW SYSTEMS FOR VERSION 02, 435 AND 928

Code E or T in Step 5

Version 02, 435 and 928

Panel Mount

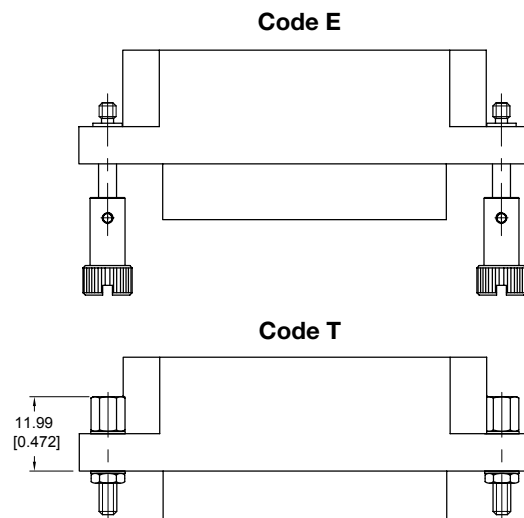
Material:

E - Steel, zinc plate with dichromate seal or chromate seal.
Knob - Aluminium, yellow anodized.

Material:

T - Steel, zinc plate with dichromate seal or chromate seal.
Hex Nut - Brass, zinc plate with dichromate seal or chromate seal
Lockwashers - Phosphor bronze, zinc plate with dichromate seal or chromate seal

Consult Technical Sales for GFSH02, 435 and 928 PCB version of code T for availability.

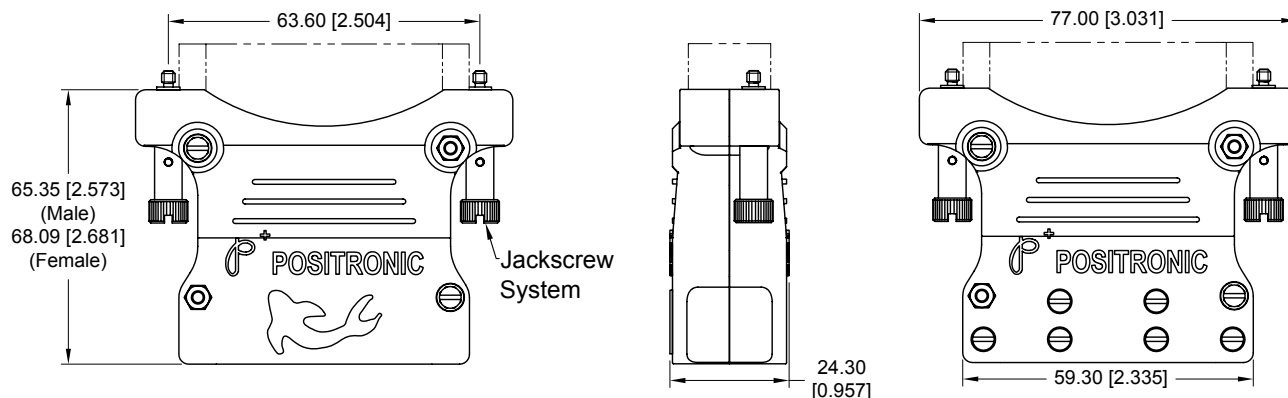


Modular Cable Clamp Hoods for Versions 02, 435 and 928



MODULAR CABLE CLAMP HOODS FOR VERSIONS 02, 435 AND 928

Code W or WE in Step 5



Code W: Hood, cable clamps, hex nuts and screws.

Code WE : Hood, rotating jackscrews, cable clamps, hex nuts and screws.

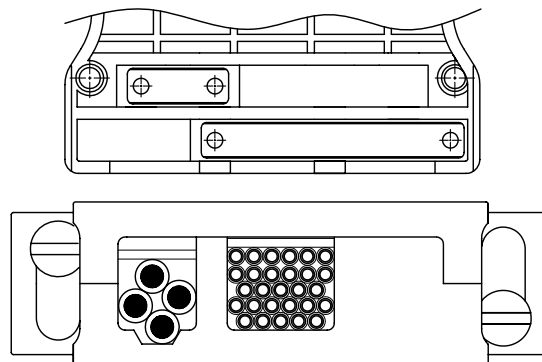
Standard Hood and Cable Clamps



Materials and Finishes:

Hood Top and Bottom (Qty: 1x each) :	Glass-filled nylon, UL 94-0. Black color.
Cable Clamps (Qty: 3x):	Steel with nickel plate. Screws (Qty: 10x): Brass, zinc plate with chromate seal.
Hex Nuts (Qty: 4x):	Brass, zinc plate with dichromate seal or brass, zinc plate with chromate seal.
Lockwashers (Qty: 4x):	Bronze, zinc plate with dichromate seal or bronze, zinc plate with chromate seal.

Modular Hood and Cable Clamps



Consult Technical Sales for more customized Cable Clamp or Cable openings.

Note: Hood only available for GFSH02, 435 and 928.

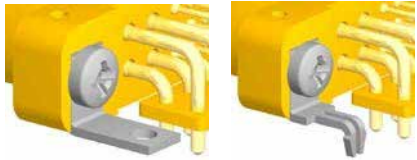
Consult Technical Sales for GFSH89, 109 and 624 hood availability.

Mounting Styles and Contact Hole Patterns for PCB Mount



MOUNTING STYLES

Right Angle (90°) Mounting Brackets Code B or LN in Step 5

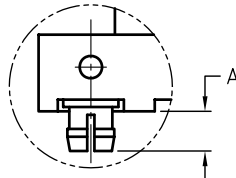


Through Hole (B)

Board Lock (LN)

Material: Brass with zinc or tin plating.

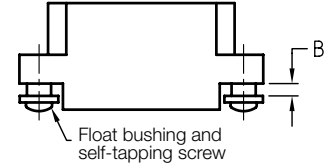
Push-on Fastener Code N in Step 5



Material: Copper alloy with tin plating.

VARIANT	A
02/435	3.17 [0.124]
109/624	3.42 [0.134]
928	3.37 [0.132]
89	3.34 [0.131]

Float Mounting Hardware Code 82 or 82 in Step 5



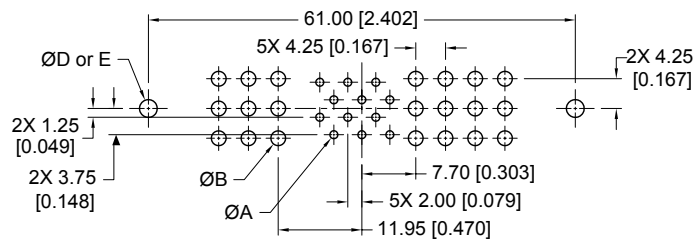
Material: Steel with zinc or tin plating.

Note: For GFSH89 with code 83, consult Technical Sales for availability.

CODE	VARIANT	B
82	02/435/928	2.00 [0.078]
82	109/624	2.13 [0.083]
82	89	1.52 [0.060]
83	02/435/928	2.70 [0.106]
83	109/624	2.84 [0.111]
83	89	2.79 [0.110]

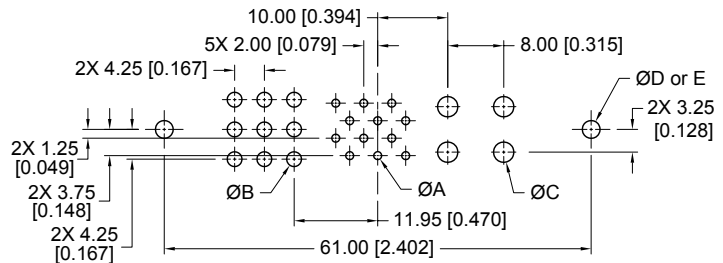
Goldfish 02 Straight PCB Mount

Code 02 in Step 2
Code 3 in Step 4
Code H or N in Step 5



Goldfish 435 Straight PCB Mount

Code 435 in Step 2
Code 3 or 38 in Step 4
Code H or N in Step 5



Contact Hole Patterns for PCB Mount for Versions 02, 435 and 928



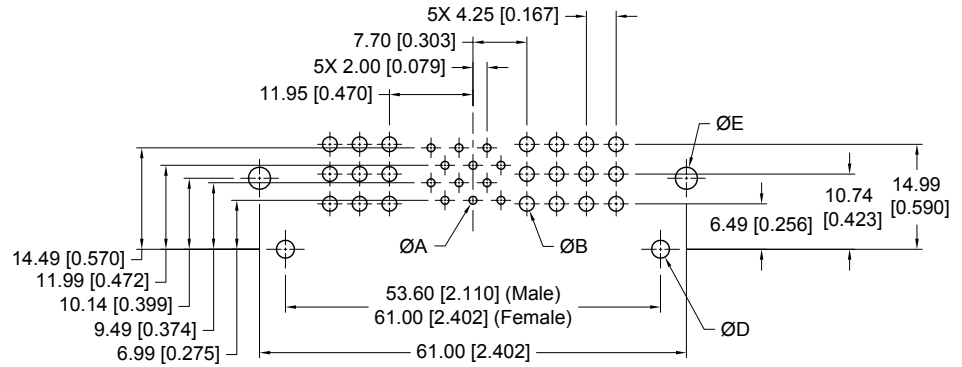
Goldfish 02

Right Angle (90°) Mount

Code 02 in Step 2

Code 4 in Step 4

Code H, B or LN in Step 5



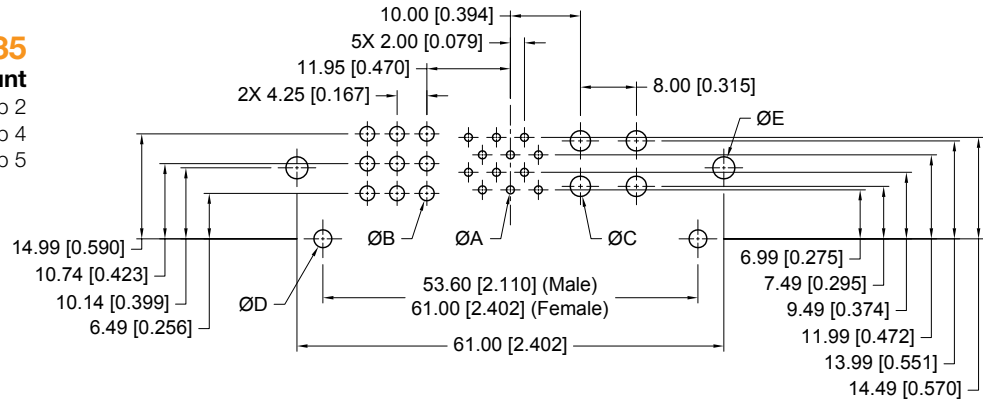
Goldfish 435

Right Angle (90°) Mount

Code 435 in Step 2

Code 4 or 48 in Step 4

Code H, B or LN in Step 5



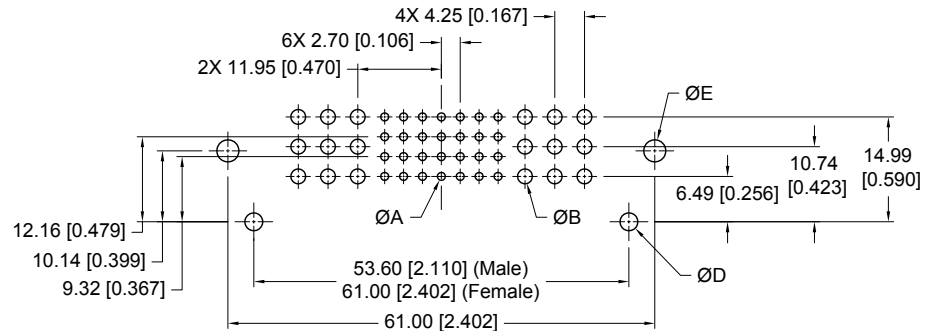
Goldfish 928

Right Angle (90°) Mount

Code 928 in Step 2

Code 4 in Step 4

Code H, B or LN in Step 5



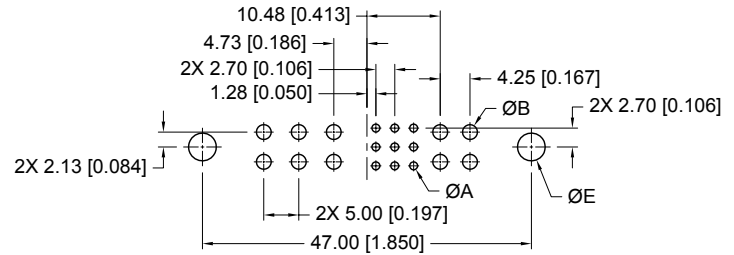
Contact Hole Patterns for PCB Mount for Versions 109 and 624



Goldfish 109

Straight PCB Mount

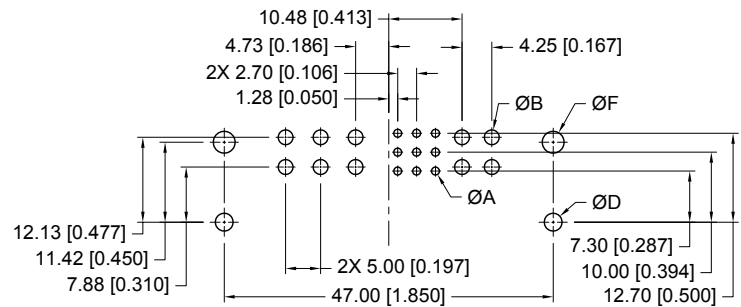
Code 109 in Step 2
Code 3 or 37 in Step 4
Code H or N in Step 5



Goldfish 109

Right Angle (90°) Mount

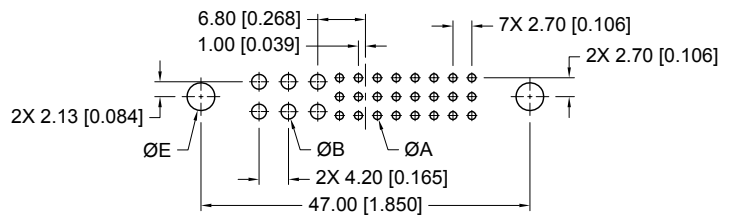
Code 109 in Step 2
Code 4 or 47 in Step 4
Code H, B or LN in Step 5



Goldfish 624

Straight PCB Mount

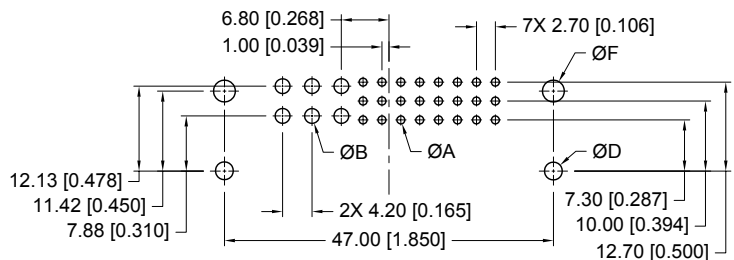
Code 624 in Step 2
Code 3 in Step 4
Code H or N in Step 5



Goldfish 624

Right Angle (90°) Mount

Code 624 in Step 2
Code 4 in Step 4
Code H, B or LN in Step 5



DIM	SUGGESTED SIZE	FOR USE
ØA	Ø1.14 [0.045]	Size 20 & 22 contact terminals
ØB	Ø2.11 [0.083]	Size 16 contact terminals
ØC	Ø2.90 [0.114]	Size 12 contact terminals
ØD	Ø2.54 [0.100]	Mounting connector with screws
ØE		

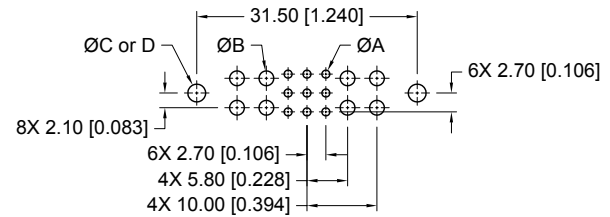
Contact Hole Patterns for PCB Mount for Version 89 and Removable, Solder, Straight PCB Mount Contacts



CONTACT HOLE PATTERNS FOR PCB MOUNT FOR VERSION 89

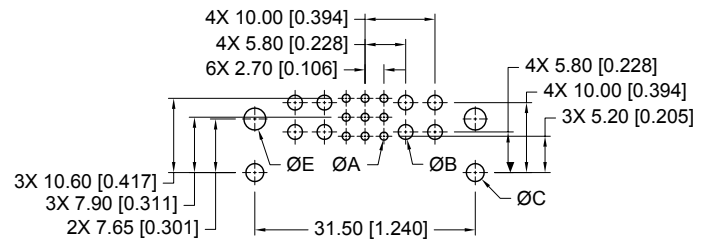
Straight PCB Mount

Code 89 in Step 2
Code 3 or 37 in Step 4
Code H or N in Step 5



Right Angle (90°) Mount

Code 89 in Step 2
Code 4 or 47 in Step 4
Code H or LN in Step 5

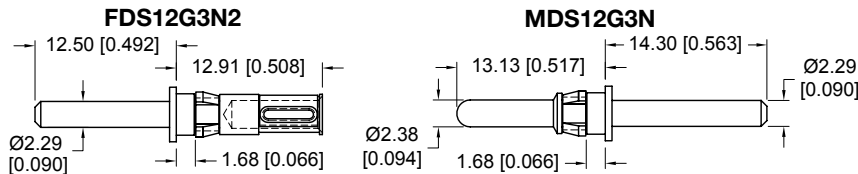


DIM	SUGGESTED SIZE	FOR USE
ØA	Ø1.14 [0.045]	Size 22 contact terminals
ØB	Ø2.11 [0.083]	Size 16 contact terminals
ØC	Ø2.54 [0.100]	Mounting connector with screws
ØD	Ø3.12±0.08 [0.123±0.003]	Mounting connector using push-on fasteners
ØE	Ø3.12 [0.123]	Mounting connector using angle brackets

For Suggested Straight Mount PCB Holes Sizes of Compliant Press-Fit Connectors, **please refer to SK6370** or consult Technical Sales for more information.

REMOVABLE, SOLDER, STRAIGHT PCB MOUNT CONTACTS

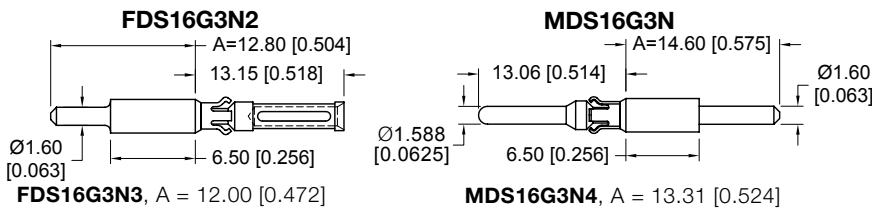
Size 12



Material and Finishes: Precision machined copper alloy with gold flash over nickel. Other finishes are available.

Now you can easily mix crimp terminations and PCB mount solder terminations within one connector!
For use in crimp version connectors.

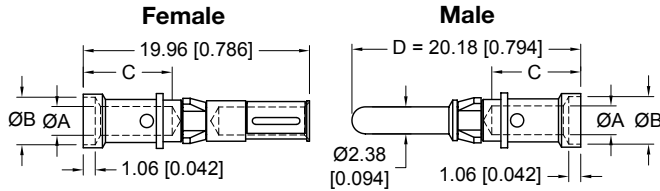
Size 16



Removable Crimp Contacts and Sequential Mating System



Size 12



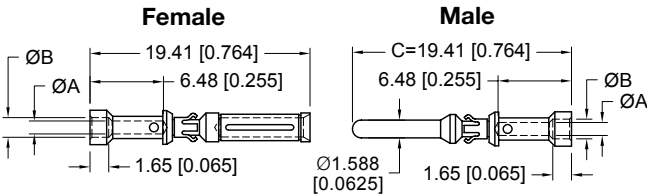
Female Contact	Male Contact	Wire Size* ¹ AWG [mm ²]	ØA	ØB	C
FC610N2	MC610N	10 [6.0]	3.73 [0.147]	N/A	6.45 [0.254]
	MC610N-228.1* ²				
FC610N2S* ³	MC610NS				
FC612N2	MC612N	12 [4.0]	2.54 [0.100]	4.19 [0.165]	7.90 [0.311]
	MC612N-228.1* ²				
FC612N2S* ³	MC612NS* ³				

*¹ Note: Please use correct wire size and it should be smaller than ØA of the contact.

*² First mate contact, D=23.18 [0.913]

*³ High conductive copper alloy

Size 16



Note: For the first mate contact, it does not apply for GFSH89 version. Consult Technical Sales for sequential mating length.

Female Contact	Male Contact	Wire Size* ¹ AWG [mm ²]	ØA	ØB
FC112N2	MC112N	12 [4.0]	2.49 [0.098]	N/A
	MC112N-133.5* ²			
FC112N2S* ³	MC112NS* ³			
FC114N2	MC114N	14-16 [2.5-1.5]	2.06 [0.081]	2.64 [0.104]
	MC114N-133.5* ²			
FC116N2	MC116N	16-18 [1.5-1.0]		

Connector Ordering Information and Automatic Crimp Machine

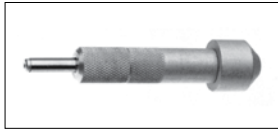


SPECIFY COMPLETE CONNECTOR BY FOLLOWING STEP 1 THROUGH STEP 6.

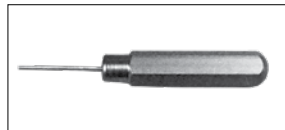
Include step 7 for customized connectors.

STEP	1	2	3	4	5	6	7						
EXAMPLE	GFSH	02	F	4	LN	/AA	—	XXXXX					
STEP 1: Basic Series GFSH : Goldfish Series		STEP 2: Connector Versions 02 : Connector with 21 size 16 power contacts and 12 size 20 signal contacts. 89 : Connector with 8 size 16 power contacts and 9 size 22 signal contacts. 109 : Connector with 10 size 16 power contacts and 9 size 22 signal contacts. 435 : Connector with 9 size 16 power contacts, 4 size 12 power contacts and 12 size 20 signal contacts. 624 : Connector with 6 size 16 power contacts and 24 size 22 signal contacts. 928 : Connector with 18 size 16 power contacts and 28 size 22 signal contacts.		STEP 3: Connector Gender F : Female M : Male		STEP 4: Type of Contact 1 : Removable contact, panel/ float mount/ cable version. (contacts ordered separately). 3 : Solder, straight PCB mount. 4 : Solder, right angle (90°) PCB mount. 37 : Solder, straight PCB mount. (high conductivity size 16 power contacts). 38 : Solder, straight PCB mount, GFSH435 only. (high conductivity size 12 power contacts). 47 : Solder, right angle (90°) PCB mount. (high conductivity size 16 power contacts). 48 : Solder, right angle (90°) PCB mount, GFSH435 only. (high conductivity size 12 power contacts). 93 : Press-fit compliant terminations. 94 : Press-fit compliant terminations.		STEP 5: Mounting Style H : No hardware. For mounting connector with self-tapping screws. (Order screws separately.) N : Straight PCB mount push-on fasteners. B : Right angle (90°) PCB mount through hole angle brackets. LN : Right angle (90°) PCB mount board lock angle brackets. 82 : Panel/ float mount for 1.5 mm thick panel. 83 : Panel/ float mount for 2.3 mm thick panel. E : Turnable male jackscrews. (Not available in GFSH624 male panel.) T : Fixed female jackscrews. (Not available in GFSH89 PCB, GFSH624 Female PCB.) TB : Fixed female jackscrews with Right angle (90°) PCB mount through hole angle brackets. TLN : Fixed female jackscrews with Right angle (90°) PCB mount board lock angle brackets. W*1 : Hood. WE*1 : Turnable Male Jackscrew with Hood. *1 Not available in GFSH89, 109 and 624.		STEP 6: Environmental Compliance /AA : Compliant per EU Directive 2002/95/EC (RoHS) Note: If no environmental options are required, this step will not be used. Example: GFSH02F4LN		STEP 7: Special Options Consult Technical Sales for customization of Goldfish Power Connectors. Example: selective loading, sequential mating, etc.	

Recommended Tools for Crimp Contacts and GG (Great Golden) Series


Contact Extraction Tool


Shown for reference only

Contact Insertion Tool


Shown for reference only

Cycle-Controlled Step Adjustable Hand Tool


Shown for reference only

CONTACT SIZE	CONTACT EXTRACTION TOOL	CONTACT INSERTION TOOL	HAND CRIMP TOOL
Size 12	2711-0-0-0	9099-3-0-0	9509-6-0-0 (MC/FC610) 9501-0-0-0 with 9502-19-0-0 positioner (MC/FC612)
Size 16	9081-0-0-0	9099-0-0-0	9501-0-0-0 with 9502-1-0-0 positioner 9501-0-0-0 with 9502-17-0-0 positioner (male first mate contacts)
Size 20	9081-2-0-0	9099-4-0-0	9507-0-0-0 with 9502-21-0-0 positioner (male contacts) 9507-0-0-0 with 9502-22-0-0 positioner (female contacts)
Size 22	9081-3-0-0	9099-1-0-0	9507-0-0-0 with 9502-12-0-0 positioner (male contacts) 9507-0-0-0 with 9502-20-0-0 positioner (female contacts)

GG SERIES CONNECTORS

MODULAR TOOLING ALLOWS DELIVERY OF A MULTITUDE OF VARIANTS!



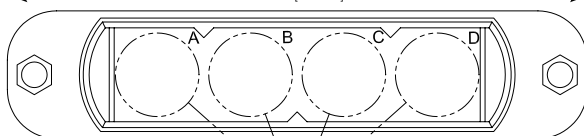
Contact sales for complete GG series catalog information

CONTACT VARIANT & DIMENSIONS

Variants shown are not actual size.

Total of 256 Variants

4.638 [117.80]


Four (4) modules
Any combination of modules is possible

 Two (2) size 8 power contact
(Consult Technical Sales for availability)


One (1) size 0 power contact



Four (4) size 12 power contacts



Twelve (12) size 16 power contacts



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