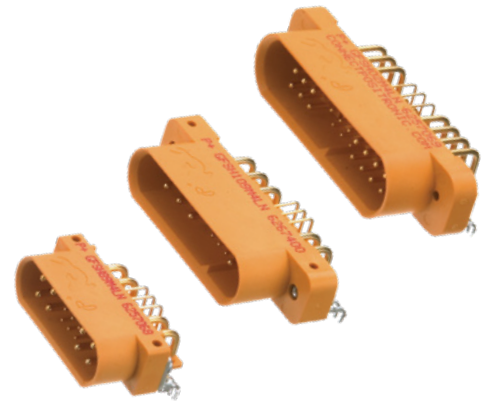


# GOLDFISH

High Power in a Compact,  
Economical Package



## FEATURES

- High power efficiency/density with current ratings up to 32A per contact at 30°C temperature rise
- Ideal for applications requiring robust blind mating in a compact, economical package
- Six mixed density (hybrid) contact arrangements for AC/DC input, DC output at multiple voltages, and signal control
- Touch-safe recessed female contacts
- High conductivity contacts available to maximize current density
- Slimline design allows for excellent heat dissipation
- Other features include sequential mating, float mounting, selective loading for high voltage needs, and hot swap
- UL safety agency recognition\*

## APPLICATIONS

- Battery packs
- Battery back-up units (BBUs)
- Fan trays
- Power shelves
- Switchable power supplies, especially for 500W and above
- Drawer applications

\*GFSH928 not included

## TECH SPECS

### GENERAL

Part Number Prefix	GFSH
Performance Level	Industrial
Qualifications	UL #49351
RoHS Compliance	Optional

### MATERIAL AND FINISHES

Insulator Material	Nylon
Insulator Color	Orange
Flammability Rating	UL 94V-0
Contact Material	Copper Alloy
Contact Plating	Gold flash, 0.76µm Au, 1.27µm Au

### ELECTRICAL

Insulator Resistance (GΩ)	5.0
Proof Voltage (V rms)	Up to 1500
Working Voltage (V rms)	Up to 500
Initial Contact Resistance (mΩ)	As low as 0.4
Contact Current Rating (A)	Up to 32 at 30°C temperature rise

### MECHANICAL

Shape	Rectangular
Body Style	Free cable, Panel mount
Insulator Construction	One-piece
Locking System	Optional
Blind Mating	Yes
Contact Style	Fixed, Removable
Contact Size	#22, #20, #16, #12
Female Contact Design	Open entry, Closed entry
Contact Retention Mechanism	Metal clip, Press-in
Contact Retention (N)	27 to 45
Contact Termination	Wire, PCB
Mating Cycles	500

### ENVIRONMENTAL

Operating Temperature	-55 to 105°C
-----------------------	--------------



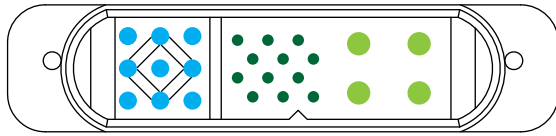
**Positronic**<sup>®</sup>  
an Amphenol company

THE SCIENCE OF CERTAINTY<sup>®</sup>

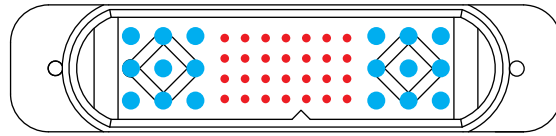
M026 22/06

# Positronic GoldFish General Information

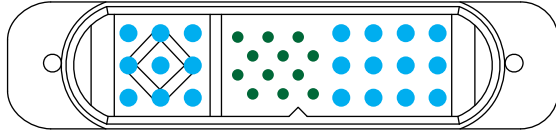
LAYOUTS



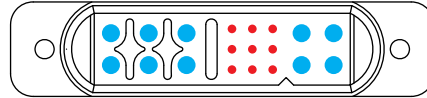
GFSH435



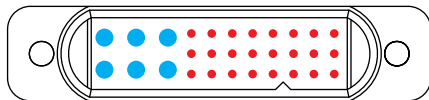
GFSH928



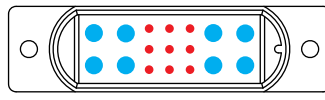
GFSH02



GFSH109



GFSH624



GFSH89

CONTACT SIZE			
#12	#16	#20	#22

CREATE A PART

**GSFH** **02** **F** **4** **LN** **/AA**

Series: **GSFH** Goldfish

Layout: **02** (21) #16, (12) #20 contacts

Contact Gender: **F** Female socket

Termination: **4** Right angle solder

Accessories: **LN** Angle brackets, boardlocks

Environmental Compliance: **/AA** RoHS

- 435** (4) #12, (9) #16, (12) #20 contacts
- 928** (18) #16, (25) #22 contacts
- 02** (21) #16, (12) #20 contacts
- 109** (10) #16, (9) #22 contacts
- 624** (6) #16, (24) #22 contacts
- 89** (8) #16, (9) #22 contacts

**M** Male pin    **F** Female socket

**1** Wire, order contacts separately  
**3** Straight solder  
**37** Straight solder, high conductivity  
**4** Right angle solder  
**47** Right angle solder, high conductivity  
**93** Press-fit, standard length  
**94** Press-fit, extended length

**H** Clearance hole  
**B** Angle brackets  
**LN** Angle brackets, boardlocks  
**TB** Angle brackets, fixed female jackposts  
**TLN** Fixed female jackscrews, mounting brackets, boardlocks  
**E** Rotating male jackscrews  
**T** Fixed female jackposts  
**N** Boardlocks  
**W** Backshell  
**WE** Backshell, rotating male jackscrews  
**82** Float mounts, 1.5 mm panel thickness  
**83** Float mounts, 2.3 mm panel thickness

CRIMP CONTACTS

Size	Standard Conductivity		High Conductivity		Stranded AWG [mm <sup>2</sup> ]
	Male	Female	Male	Female	
12	MC610N/AA	FC610N2/AA	MC610NS/AA	FC610N2S/AA	#10 [6.0]
12	MC612N/AA	FC612N2/AA	MC612NS/AA	FC612N2S/AA	#12 [4.0]
16	MC112N/AA	FC112N2/AA	MC112NS/AA	FC112N2S/AA	#12 [4.0]
16	MC116N/AA	FC116N2/AA			#16-18 [1.5-1.0]
20	MC720N/AA	FC720NS/AA			#20-22-24 [0.5-0.3-0.25]
22	MC422N/AA	FC422P6/AA			#22-24-26 [0.3-0.25-0.12]

## Positronic | Americas

1325 N Eldon Ave  
 Springfield MO 65803 USA  
 +1 800 641 4054  
 info@connectpositronic.com

## Positronic | Europe

46 route d'Engachies  
 F-32020 Auch Cedex 9 France  
 +33 5 6263 4491  
 contact@connectpositronic.com

## Positronic | Asia

3014A Ubi Rd 1 #07-01  
 +65 6842 1419  
 Singapore 408703  
 singapore@connectpositronic.com

## Sales Offices

Positronic has local sales representation all over the world.

For the nearest sales office visit  
[www.connectpositronic.com/sales](http://www.connectpositronic.com/sales)

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [D-Sub Mixed Contact Connectors](#) category:*

*Click to view products by [Positronic](#) manufacturer:*

Other Similar products are found below :

[053512-1479](#) [09691000022](#) [09691000522](#) [09691009046](#) [09691009048](#) [09691009049](#) [09691015051](#) [09691017051](#) [09691100022](#)  
[09691100022500](#) [09691100522](#) [09691400022](#) [09691815143](#) [09691815823](#) [09691817143](#) [09691817821](#) [09691825420](#) [09691825821](#)  
[09691827232](#) [09691827420](#) [09691827421](#) [09692000033](#) [09692000633](#) [09692009020](#) [09692009046](#) [09 69 200 9049](#) [09692009147](#)  
[09692009155](#) [09692009224](#) [09692015072](#) [09692015111](#) [09692017072](#) [09692017111](#) [09692020072](#) [09692020111](#) [09692100033](#)  
[09692100633](#) [09692115072](#) [09692117111](#) [09692120072](#) [09692120111](#) [09692815143](#) [09692815823](#) [09692817140](#) [09692817141](#)  
[09692817143](#) [09692817420](#) [09692825420](#) [09692825821](#) [09692827420](#)