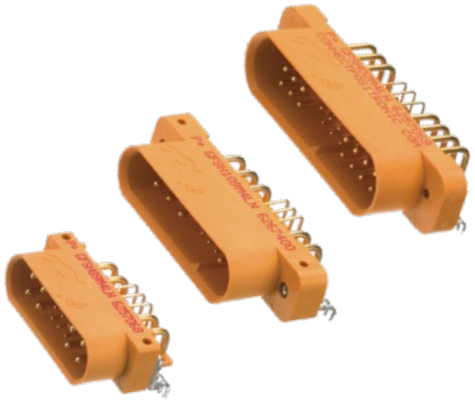
GOLDFISH

High Power in a Compact, Economical Package



FEATURES

- High power efficiency 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

- Rechargeable battery packs for medical, UAV, industrial, and electrification use
- Battery back-up units (BBUs)
- Fan trays
- Power shelves
- Switchable power supplies, especially for 500W and above
- Drawer applications

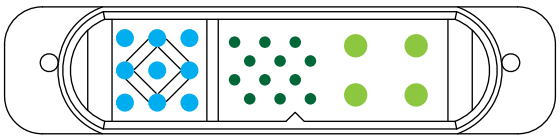
*GFSH928 not included

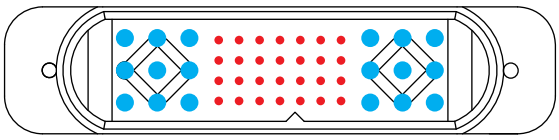
TECH SPECS

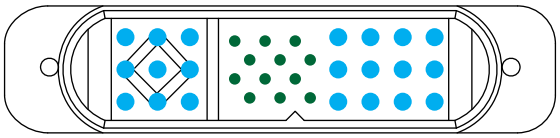
GENERAL	
Part Number Prefix	GFSH
Performance Level	Industrial
Qualifications	UL #49351
RoHS Compliance	Optional
MATERIAL AND FINISHES	
Insulator Material	Nylon
Insulator Color	Orange
Flammability Rating	UL 94V-0
Contact Material	Copper Alloy
Contact Plating	Gold flash
ELECTRICAL	
Insulator Resistance (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

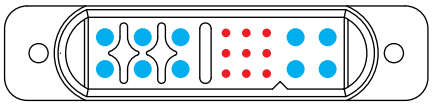
Positronic
GoldFish General Information

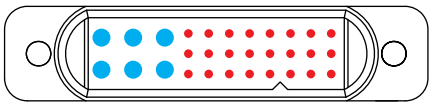
LAYOUTS

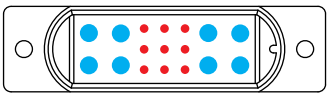

GFSH435


GFSH928


GFSH02


GFSH109


GFSH624


GFSH89

CONTACT SIZE			
#12	#16	#20	#22

CREATE A PART

GFSH	02	F	4	LN	/AA

Series

GFSH Goldfish

Layout

435	(4) #12, (9) #16, (12) #20 contacts
928	(18) #16, (28) #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

Contact Gender

M Male pin **F** Female socket

Termination

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

Accessories

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

Environmental Compliance

/AA RoHS

CRIMP CONTACTS

Size	Standard Conductivity		High Conductivity		Stranded AWG [mm²]
	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	FC720N2/AA			#20-22-24 [0.5-0.3-0.25]
22	MC422N/AA	FC422P6/AA			#22-24-26 [0.3-0.25-0.12]

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