

Connector Ordering Information



Specify complete connector by following step 1 through step 6.
Include step 7 for customized connectors.

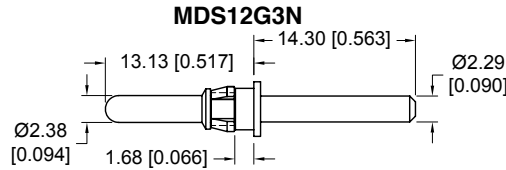
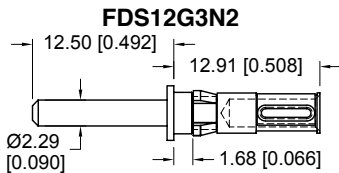
STEP	1	2	3	4	5	6	7
EXAMPLE	GFSH	02	F	4	LN	/AA	XXXXX
STEP 1: Basic Series GFSH : Goldfish Series							STEP 7: Special Options Consult factory for customization of Goldfish Power Connectors. E.g. selective loading, sequential mating, etc.
STEP 2: Connector Versions 02 : Connector with 21 size 16 power 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 6: Environmental Compliance options /AA : Compliant per EU Directive 2002/95/EC (RoHS) Note: If no environmental options are required, this step will not be used. Examples: GFSH02F4LN
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 : Hood. *WE : Turnable Male Jackscrew with Hood. Notes: *: Not available in GFSH89, 109 and 624.



Removable, Solder, Straight PCB Mount Contacts

Size 12

Removable, Solder, Straight PCB Mount Contacts

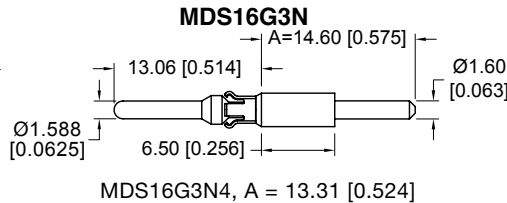
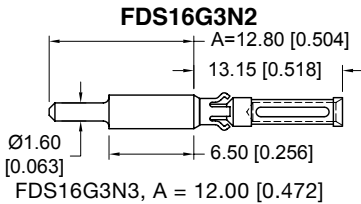


Material and Finishes: Precision machined copper alloy with gold flash over nickel. Other finishes are available.

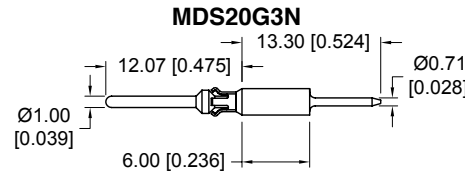
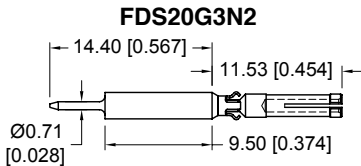
Now you can easily mix crimp terminations and PCB mount solder terminations within one connector!

For use in crimp version connectors.

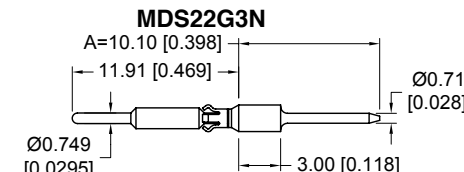
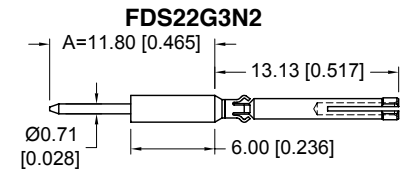
Size 16



Size 20



Size 22



FDS22G3N4, A = 13.51 [0.532]

MDS22G3N3, A = 12.00 [0.472]

Contact Ordering Information

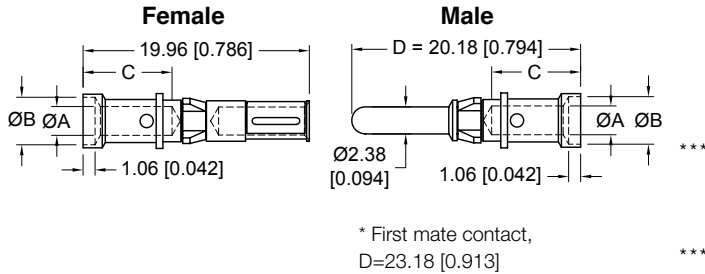
Connector Variant	Power Contact	Signal Contact
GFSH02F1H	FDS16G3N2	FDS20G3N2
GFSH02M1H	MDS16G3N	MDS20G3N
GFSH109/624F1H	FDS16G3N3	FDS22G3N2
GFSH109/624M1H	MDS16G3N4	MDS22G3N
GFSH435F1H	FDS16G3N5	FDS20G3N5
	FDS12G3N2	
GFSH435M1H	MDS16G3N	MDS20G3N
	MDS12G3N	
GFSH89F1H	FDS16G3N2	FDS22G3N3
GFSH89M1H	MDS16G3N4	MDS22G3N
GFSH928F1H	FDS16G3N2	FDS22G3N4
GFSH928M1H	MDS16G3N	MDS22G3N3

Reference contact tail length is 4.50 [0.177] beyond insulator.

Consult factory for other contact sizes.



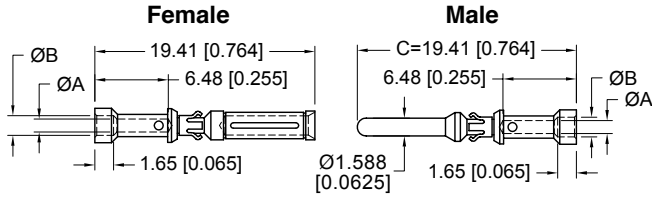
Size 12



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

***High conductivity material: High conductive copper alloy.

Size 16



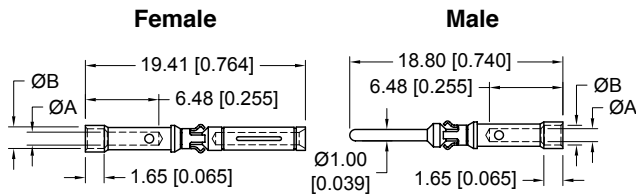
Note: For the first mate contact, it does not apply for GFSH89 version. Consult factory for sequential mating length.

* First mate contact, C=21.74 [0.856]

Female Contact	Male Contact	** Wire Size AWG [mm ²]	ØA	ØB
FC112N2	MC112N	12 [4.0]	2.49 [0.098]	N/A
	MC112N-133.5*			
FC112N2S	MC112NS			
FC114N2	MC114N	14-16 [2.5-1.5]	2.06 [0.081]	2.64 [0.104]
	MC114N-133.5*			
FC116N2	MC116N	16-18 [1.5-1.0]	1.70 [0.067]	2.36 [0.093]
	MC116N-133.5*			
FC120N2	MC120N	20-22-24 [0.5-0.3-0.25]	1.14 [0.045]	1.73 [0.068]
	MC120N-133.5*			

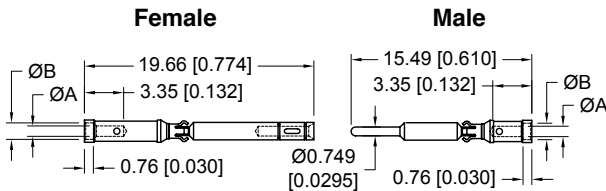
***High conductivity material: High conductive copper alloy.

Size 20



Female Contact	Male Contact	** Wire Size AWG [mm ²]	ØA	ØB
FC720N2	MC720N	20-22-24 [0.5-0.3-0.25]	1.14 [0.045]	1.73 [0.068]

Size 22



Female Contact	Male Contact	** Wire Size AWG [mm ²]	ØA	ØB
FC420N6	MC420N	20 [0.5]	1.14 [0.045]	N/A
FC422N6	MC422N	22 [0.3]	0.89 [0.035]	1.63 [0.064]

Material and Finishes (standard contact): Precision machined copper alloy with gold flash over nickel. Other finishes available.

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

Consult factory for sequential mating and high conductivity material options.

POSITRONIC INDUSTRIES

Connector Excellence[®]

Connector Families

Power

D-SUBMINIATURE

Circular

RECTANGULAR

Hermetic

THERMOCOUPLE

POSITRONIC INDUSTRIES, INC.

423 N Campbell Avenue • PO Box 8247 • Springfield, MO 65801
Tel (417) 866-2322 • Fax (417) 866-4115 • Toll Free (800) 641-4054
info@connectpositronic.com

POSITRONIC INDUSTRIES, S.A.S.

Zone Industrielle d'Engachies • 46 Route d'Engachies
France 32020 Auch Cedex 9
Telephone 33 5 62 63 44 91 • Fax 33 5 62 63 51 17
contact@connectpositronic.com

POSITRONIC ASIA PTE LTD.

3014A Ubi Road 1 #07-01 • Singapore 408703
Telephone (65) 6842 1419 • Fax (65) 6842 1421
singapore@connectpositronic.com



POSITRONIC[®]
GLOBAL *Connector* SOLUTIONS

Quality Solutions

Reliable Service