

Specify complete connector by following step 1 through step 5.

Step	1	2A	2B	2C	2D	3	4	5	6	7
Example	GG	8	7	6	8	M	1	0	/AA	xxx

STEP 1: Basic Series
GG4 : GG Series

MALE MATING FACE FOR REFERENCE ONLY

STEPS 2: Connector Version
256 versions available . Specify using Step 2A through Step 2D. Each Step (2A, 2B, 2C, or 2D) can be any module.

Code 8 : One (1) size 0 power contact.

Code 7: Four (4) size 12 power contacts.

Code 6: Twelve (12) size 16 power contacts.

Code 5 : Nineteen (19) size 20 signal contacts.

STEP 7: Special Options
Consult factory for customization.

STEP 6: Environmental Compliance options
/AA : Compliant per EU Directive 2002/95/EC (RoHS)
Example: GG8567F10/AA
Note: If no environmental options are required, this step will not be used.
Example: GG8567F10

STEP 5: Mounting Style
0: No hardware.
82: Float mount 1.5 mm panel thickness.
83: Float mount 2.3 mm panel thickness.
E: Turnable male jackscrews .
T: Fixed female jackscrews.
J: Hood.*
EJ: Turnable male jackscrews with Hood.*
TJ: Fixed female jackscrews with Hood.*
*Consult factory for Hood availability.

STEP 4: Type of Contact
1: Removable contact.
Contacts ordered separately.

STEP 3: Connector Gender
F: Female
M: Male

Part Number Example: GG8568M10

Code 8 = 1ea. Size 0 power contact (Step 2A)

Code 5 = 19ea. Size 20 signal contacts (Step 2B)

Code 6 = 12ea. Size 16 power contacts (Step 2C)

Code 8 = 1ea Size 0 power contact (Step 2D)

STEP 2A STEP 2B STEP 2C STEP 2D

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Part Number Example: GG8767M1E

Code 8 = 1ea Size 0 power contact (Step 2A)

Code 7 = 4ea Size 12 power contacts (Step 2B)

Code 6 = 12ea Size 16 power contacts (Step 2C)

Code 7 = 4ea Size 12 power contacts (Step 2D)

STEP 2A STEP 2B STEP 2C STEP 2D

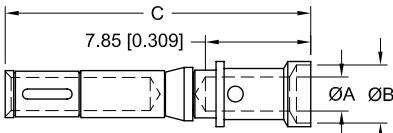
MALE FACE FOR REFERENCE ONLY

Consult factory for the availability of two (2) size 8 power contacts or other contact sizes.
Consult factory for high performance glass-filled polyester material option.

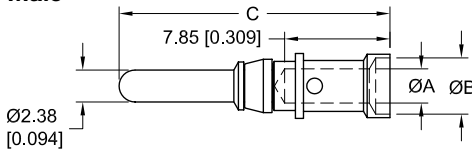


Size 12 Removable Crimp Contacts

Female

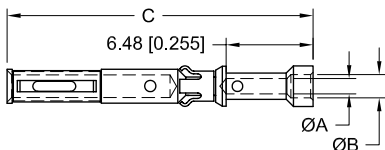


Male

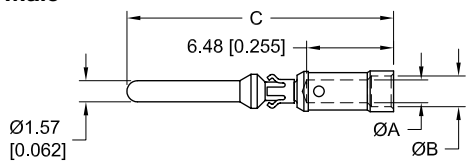


Size 16 Removable Crimp Contacts

Female

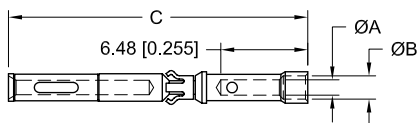


Male

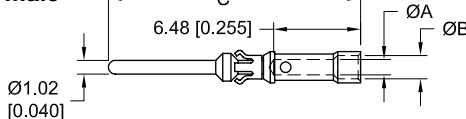


Size 20 Removable Crimp Contacts

Female



Male



Please use correct wire size and it should be smaller than ØA of the contact.
Consult factory for other contact sizes, materials, finishes and termination styles.

Removable contacts should be allowed to float after installation in the connector body.
This enables superior mating performance.

Part Number (Standard Material)	Part Number (High Conductivity Material)	Wire Size AWG [mm ²]	ØA	ØB	C
Female Contacts					
SFC1210N2	SFC1210N2S	10[6.0]	3.73[0.147]	N/A*	22.76[0.896]
SFC1212N2	SFC1212N2S	12[4.0]	2.54[0.100]	4.19[0.165]	
Male Contacts					
SMC1210BN	SMC1210BNS	10[6.0]	3.73[0.147]	N/A*	22.70[0.894]
SMC1212BN	SMC1212BNS	12[4.0]	2.54[0.100]	4.19[0.165]	

N/A* - Not applicable

Part Number (Standard Material)	Part Number (High Conductivity Material)	Wire Size AWG [mm ²]	ØA	ØB	Sequential Mate	C
Female Contacts						
SFC1612N2	SFC1612N2S	12 [4.0]	N/A*	2.49[0.098]	N/A*	22.80 [0.898]
SFC1614N2	SFC1614N2S	14 [2.5]	2.06 [0.081]	2.64[0.104]		
SFC1616N2	SFC1616N2S	16 [1.5]	1.70 [0.067]	2.36[0.093]		
SFC1620N2	SFC1620N2S	20 [0.5]	1.14 [0.045]	1.73[0.068]		
Male Contacts						
SMC1612AN	SMC1612ANS	12 [4.0]	N/A*	2.49[0.098]	First	23.68 [0.932]
SMC1612BN	SMC1612BNS				Standard	19.87 [0.782]
SMC1614AN	SMC1614ANS	14[2.5]	2.06 [0.081]	2.67[0.105]	First	23.68 [0.932]
SMC1614BN	SMC1614BNS				Standard	19.87 [0.782]
SMC1616AN	SMC1616ANS	16[1.5]	1.70[0.067]	2.36[0.093]	First	23.68 [0.932]
SMC1616BN	SMC1616BNS				Standard	19.87 [0.782]
SMC1620AN	SMC1620ANS	20 [0.5]	1.14 [0.045]	1.73[0.068]	First	23.68 [0.932]
SMC1620BN	SMC1620BNS				Standard	19.87 [0.782]

N/A* - Not applicable

Part Number (Standard Material)	Wire Size AWG [mm ²]	ØA	ØB	Sequential Mate	C
Female Contacts					
SFC2020N2	20[0.5]	1.14[0.045]	1.73[0.068]	N/A*	22.30[0.878]
Male Contacts					
SMC2020AN	20[0.5]	1.14[0.045]	1.73[0.068]	First	23.93[0.942]
SMC2020BN				Standard	20.12[0.792]

N/A* - Not applicable

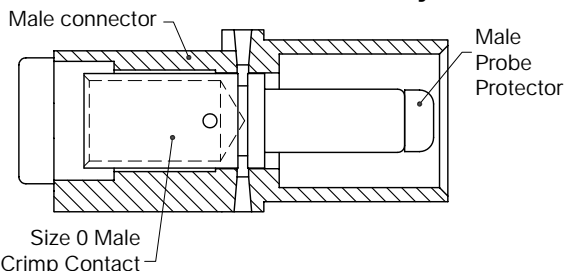
Materials:

Contacts: Copper alloy.
Retention Clips: Beryllium copper.

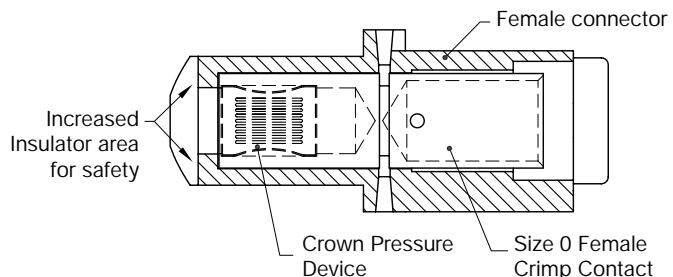
Finishes:

Gold flash over nickel plate.

Safety Features of Insulator and Size 0 Contact



The connector was designed to pass the IEC 60950 (figure 2C) test probe which provides protection from electric shock and energy hazards.

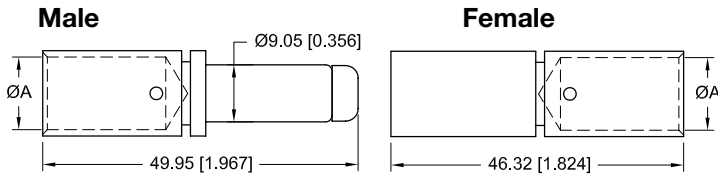


Materials and Finishes:

Male Probe Protector: Nylon, UL 94V-0, black color.
Crown Pressure Device: Beryllium copper, gold flash over nickel plate.

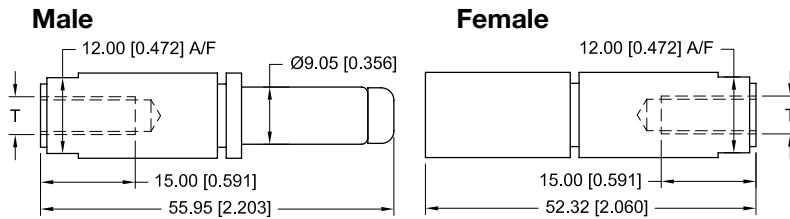


Size 0 Removable Crimp Contacts



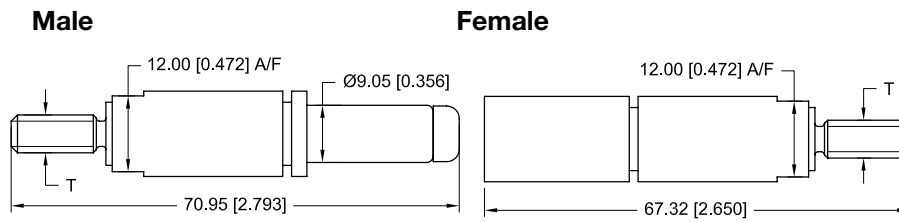
Part Number (Standard Material)	Part Number (High Conductivity Material)	Wire Size AWG [mm ²]	ØA
Female Contacts			
GGFC00N	GGFC00NS	0[55]	10.50 [0.413]
GGFC04N	GGFC04NS	4[25]	7.50 [0.295]
Male Contacts			
GGMC00N	GGMC00NS	0[55]	10.50 [0.413]
GGMC04N	GGMC04NS	4[25]	7.50 [0.295]

Size 0 Removable Contacts, Internal Threads For Typical Ring Terminal



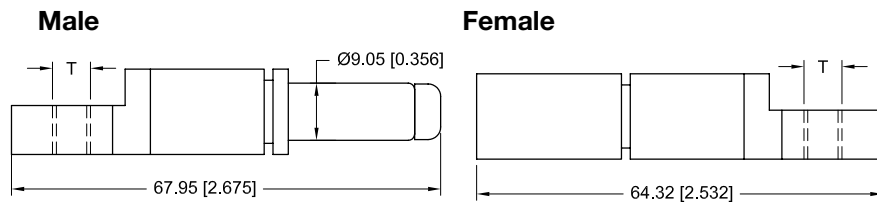
Part Number (Standard Material)	Part Number (High Conductivity Material)	Thread T
Female Contacts		
GGFIT00M	GGFIT00MS	M6 x 1
GGFIT00S	GGFIT00SS	1/4-20 UNC 2B
Male Contacts		
GGMIT00M	GGMIT00MS	M6 x 1
GGMIT00S	GGMIT00SS	1/4-20 UNC 2B

Size 0 Removable Contacts, External Threads For Typical Ring Terminal

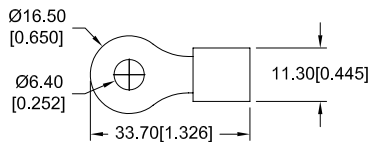


Part Number (Standard Material)	Part Number (High Conductivity Material)	Thread T
Female Contacts		
GGFET00M	GGFET00MS	M6 x 1
GGFET00S	GGFET00SS	1/4-20 UNC 2A
Male Contacts		
GGMET00M	GGMET00MS	M6 x 1
GGMET00S	GGMET00SS	1/4-20 UNC 2A

Size 0 Removable Contacts, Right Angle Threads For Typical Ring Terminal



Part Number (Standard Material)	Part Number (High Conductivity Material)	Thread T
Female Contacts		
GGFRA00M	GGFRA00MS	M6 x 1
GGFRA00S	GGFRA00SS	1/4-20 UNC 2B
Male Contacts		
GGMRA00M	GGMRA00MS	M6 x 1
GGMRA00S	GGMRA00SS	1/4-20 UNC 2B



Ring Terminal
(Shown for reference only.)

Consult factory for BUS bar contacts availability

Materials:

Contacts: Copper alloy.
Locking Clips: Copper alloy and nylon.
Male Probe Plug : Nylon, UL 94V-O, black color

Finish:

Gold flash over nickel plate.
Consult factory for Silver plating option.

Insertion, Extraction, and Retention of Size 0 Contacts

Insertion

STEP 2: Lock the Locking Clip.

STEP 1: Insert the Contact from Rear Side.

Locking Clip

Materials:

Locking clip: Copper alloy with Nylon, UL 94V-O dielectric overmold, black color.
Finishes: Gold flash over nickel plate.

Extraction

STEP 1: Unlock the Locking Clip.

STEP 2: Extract the Contact from Rear Side.

Connector Excellence
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Connector Families

Power

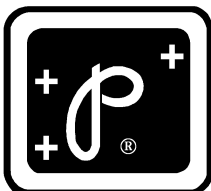
D-SUBMINIATURE

Circular

RECTANGULAR

Hermetic

THERMOCOUPLE



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