

A

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F

1					2		3		4		5		6		7		8					
Coded	2Pin	3Pin	4Pin	5Pin													REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD
A-Coded																	REV 1		Modify PCB hole orientation	20/Jan/25	King	LEO
B-Coded																	REV 2		1.Added 16/17 core products 2.PCB hole size adjustment annotation method	06/Feb/25	King	LEO
D-Coded																						

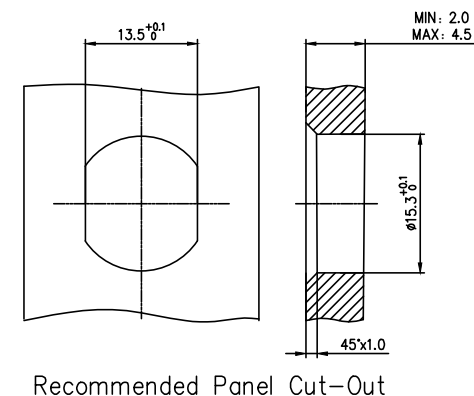
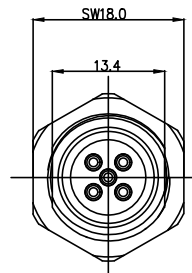
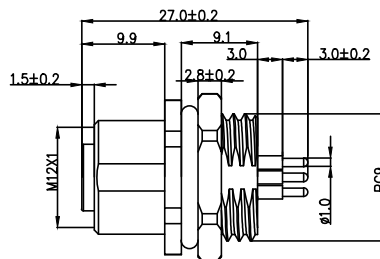
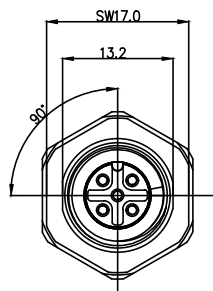
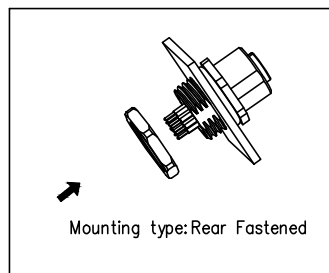
2x5PIN

13.5^{+0.1}₀

MIN: 2.0

MAX: 4.5

2~5PIN



Note:

- 1.Waterproof Rate:IP68
- 2.This product must meet IEC61076-2-101
- 3.This product must meet 2011/65/EU ROHS compliance.
- 4.Not note tolerances:±0.20

Ordering Information

FCR1M12 - 1 2 X 3 XX S S D 0 - 00 9

Series Name	Category	Coded	Circuits	Contact
FCR1M12-PG9	S-socket	A-A CODED B-B CODED D-D CODED	02-2Circuits 03-3Circuits 04-4Circuits 05-5Circuits 06-6Circuits 07-7Circuits 08-8Circuits 09-9Circuits 10-10Circuits 11-11Circuits 12-12Circuits	S-socket

6 Entry Angle 5-180° Vertical 7 Wiring type D-Through Hole 8 Shield 0-without shield 9 SN 00

Pin Assignments Front View	Rated Voltage	Rated impulse Voltage	Rated Current	Contact resistance	Insulation resistance
	250V	2500V	4A	≤5mΩ	≥100MΩ
	250V	2500V	4A	≤5mΩ	≥100MΩ
	250V	2500V	4A	≤5mΩ	≥100MΩ
	60V	1500V	4A	≤5mΩ	≥100MΩ
THIRD ANGLE PROJECTION GENERAL TOLERANCES (UNLESS SPECIFIED) APPROVE BY LEO CHECKED BY GISELLE DRAWN BY King DATE 20/Jan/25 DATE 20/Jan/25 DATE 20/Jan/25 DESIGN UNITS METRIC SCALE 1:1 SIZE A4					
ITEM NO. FCR1M12-SXXXSSD0-00 ITEM NO. FCR1M12 TITLE M12 female socket, unshielded, 2~17 core, PG9, rear lock, codes A/B/D THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
TXGA Building Technology Cornerstone REV 2 SHEET NO. 1/5					

A

B

C

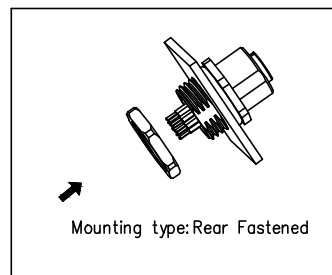
D

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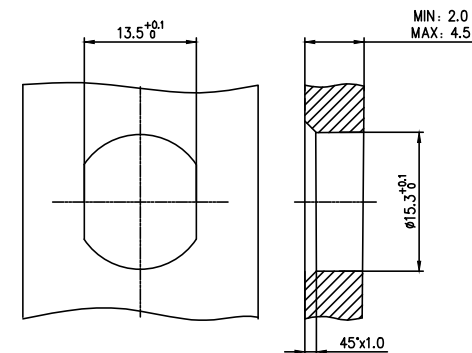
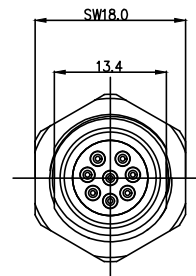
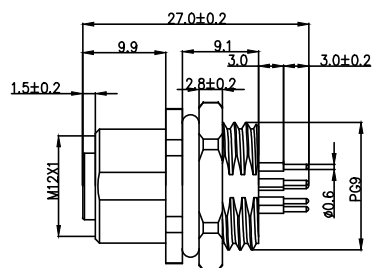
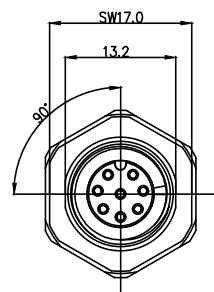
F

Coded	6Pin	7Pin	8Pin	
A-Coded				

6~8PIN



Mounting type:Rear Fastened



Recommended Panel Cut-Out

Note:

- 1.Waterproof Rate:IP68
- 2.This product must meet IEC61076-2-101
- 3.This product must meet 2011/65/EU ROHS compliance.
- 4.Not note tolerances:±0.20

Ordering Information

FCR1M12 - 2 X XX S S D 0 - 00
1 2 3 4 5 6 7 8 9

Series Name	Category	Coded	Circuits	Contact
FCR1M12-PG9	S-socket	A-A CODED B-B CODED D-D CODED	02-2Circuits 03-3Circuits 04-4Circuits 05-5Circuits 06-6Circuits 07-7Circuits 08-8Circuits 09-9Circuits 10-10Circuits 11-11Circuits 12-12Circuits	S-socket

6 Entry Angle S-180° Vertical
7 Wiring type D-Through Hole
8 Shield 0-without shield
9 SN 00

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD
REV 1		Modify PCB hole orientation	20/Jan/25	King	LEO
REV 2		1.Added 16/17 core products 2.PCB hole size adjustment annotation method	06/Feb/25	King	LEO

Pin Assignments Front View	Rated Voltage	Rated impulse Voltage	Rated Current	Contact resistance	Insulation resistance
	30V	800V	2A	≤5mΩ	≥100MΩ
	30V	800V	2A	≤5mΩ	≥100MΩ
	30V	800V	2A	≤5mΩ	≥100MΩ
THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY LEO	DATE 20/Jan/25	PART NO. FCR1M12-SXXXSSD0-00
DESIGN UNITS METRIC	X. ±0.30	X.* ±5°	CHECKED BY GISELLE	DATE 20/Jan/25	ITEM NO. FCR1M12
SCALE 1:1	X.X ±0.20	X.X* ±2°	DRAWN BY King	DATE 20/Jan/25	TITLE M12 female socket, unshielded, 2~17 core, PG9, rear lock, codes A/B/D
SIZE A4	X.XX ±0.15	X.XX* ±1°			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
	X.XXX ±0.10	X.XXX* ±0.5°			
					Building Technology Cornerstone
					REV 2 SHEET NO. 2/5

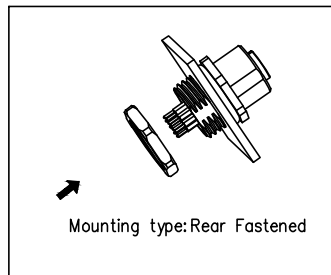
TXGA

Building Technology Cornerstone

A

Coded	16Pin	17Pin
A-Coded		

B



C

Note:

1. Waterproof Rate: IP68
2. This product must meet IEC61076-2-101
3. This product must meet 2011/65/EU ROHS compliance.
4. Not note tolerances: ± 0.20

D

Ordering Information

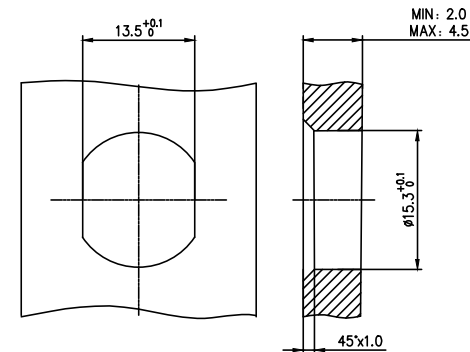
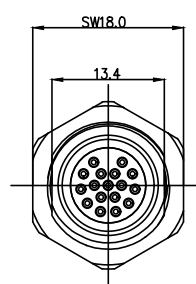
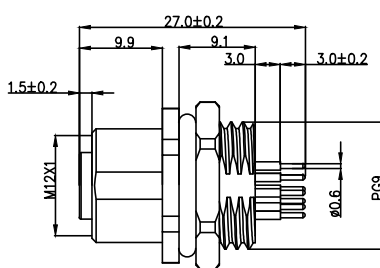
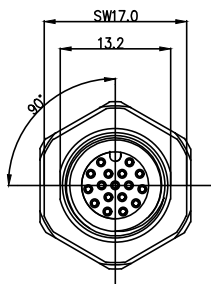
FCR1M12 - $\frac{S}{2}$ $\frac{X}{3}$ $\frac{XX}{4}$ $\frac{S}{5}$ $\frac{S}{6}$ $\frac{D}{7}$ $\frac{0}{8}$ - $\frac{00}{9}$

E

1 Series Name	2 Category	3 Coded	4 Circuits	5 Contact
FCR1M12-PG9	S-socket	A-A CODED B-B CODED D-D CODED	02-2Circuits 03-3Circuits 04-4Circuits 05-5Circuits 06-6Circuits 07-7Circuits 08-8Circuits 09-9Circuits 10-10Circuits 11-11Circuits 12-12Circuits 16-16Circuits 17-17Circuits	S-socket
6 Entry Angle	7 Wiring type	8 Shield	9 SN	
S-180° Vertical	D-Through Hole	0-Without shield	00	

F

16~17PIN



Recommended Panel Cut-Out

Installation Category	PCBinstall
Degree of protection	IP68(in mated condition)
Mechanical operation	> 100 mating cycles
Upper temperature	105°C
Lower temperature	-40°C
Pollution degree	3
Overvoltage categorie	II
Material group	II
Material of contact	CuZn (Messing/brass)
Contact plating	Au
Material of contact body	PA66
Sealing	EPDM
Material of housing	copper alloy

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Pin Assignments Front View	Rated Voltage	Rated impulse Voltage	Rated Current	Contact resistance	Insulation resistance
	30V	800V	1.5A	$\leq 5m\Omega$	$\geq 100M\Omega$
	30V	800V	1.5A	$\leq 5m\Omega$	$\geq 100M\Omega$

		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY LEO	DATE 20/Jan/25	PART NO. FCR1M12-SXXXSSD0-00	ITEM NO. FCR1M12	 Building Technology Cornerstone	
THIRD ANGLE PROJECTION				CHECKED BY GISELLE	DATE 20/Jan/25	TITLE M12 female socket, unshielded, 2~17 core, PG9, rear lock, codes A/B/D			
DESIGN UNITS METRIC		X.X ± 0.20	X.X" $\pm 2^\circ$	DRAWN BY King	DATE 20/Jan/25			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
SCALE 1:1	SIZE A4	X.XX ± 0.15	X.XX" $\pm 1^\circ$						
		X.XXX ± 0.10	X.XXX" $\pm 0.5^\circ$						

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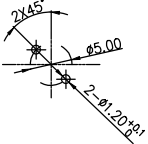
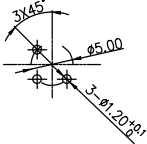
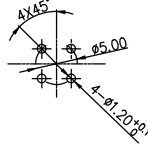
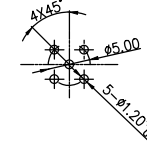
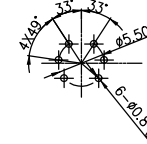
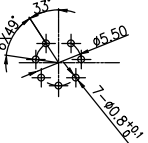
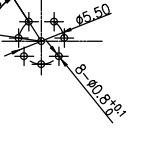
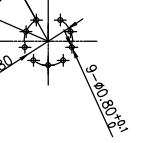
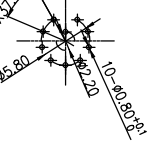
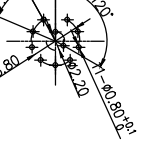
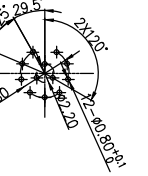
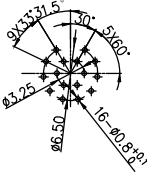
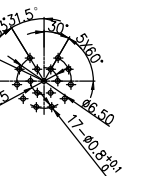
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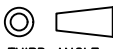
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REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD
REV 1		Modify PCB hole orientation	20/Jan/25	King	LEO
REV 2		1.Added 16/17 core products 2.PCB hole size adjustment annotation method	06/Feb/25	King	LEO

2-core PCB hole size	3-core PCB hole size	4-core PCB hole size	5-core PCB hole size	6-core PCB hole size
				
7-core PCB hole size	8-core PCB hole size	9-core PCB hole size	10-core PCB hole size	11-core PCB hole size
				
12-core PCB hole size	16-core PCB hole size	17-core PCB hole size		
				

 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY LEO	DATE 20/Jan/25	PART NO. FCR1M12-SXXXSSD0-00	ITEM NO. FCF4M12	 Building Technology Cornerstone	
		X. ±0.30	X.* ±5°	CHECKED BY	DATE	TITLE			
DESIGN UNITS METRIC		X.X ±0.20	X.X* ±2°	GISELLE	20/Jan/25	M12 female socket, unshielded, 2~17 core, PG9, rear lock, codes A/B/D		REV 2 SHEET NO. 5/5	
SCALE 1:1	SIZE A4	X.XX ±0.15	X.XX* ±1°	DRAWN BY	DATE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
		X.XXX ±0.10	X.XXX* ±0.5°	King	20/Jan/25				