

NUMBER GS-12-625	TYPE Product Specification		
TITLE Terminal block- Plug and Socket, Fixed Plug		PAGE 1 of 8	REVISION D
		AUTHORIZED BY Jason Hsu	DATE Nov. 11 th , 2009
		CLASSIFICATION Unrestricted	

1.0 SCOPE

This specification covers performance, test, and quality requirement for terminal block pluggable plug, socket and fixed plug. Centerline spacing are 3.50, 3.81, 5.00, 5.08, and 7.62mm.

2.0 APPLICABLE DOCUMENTS

2.1 Drawing

Pitch	Type	FCI series name	Drawing number	FCI part number	Poles
3.50mm	Plug	01-350	20020004	20020004-CxxxxxxLF	02~24p
		01-350	20020000	20020000-CxxxxxxLF	02~24p
		02-350	20020009	20020009-CxxxxxxLF	02~24p
		02-350	20020008	20020008-CxxxxxxLF	02~24p
	Socket	06-350	20020107	20020107-CxxxxxxLF	02~24p
		06-350	20020108	20020108-CxxxxxxLF	02~24p
		06-350	20020111	20020111-CxxxxxxLF	02~24p
3.81mm	Plug	01-381	20020004	20020004-DxxxxxxLF	02~24p
		01-381	20020000	20020000-DxxxxxxLF	02~24p
		02-381	20020009	20020009-DxxxxxxLF	02~24p
		02-381	20020008	20020008-DxxxxxxLF	02~24p
	Socket	06-381	20020107	20020107-DxxxxxxLF	02~24p
		06-381	20020108	20020108-DxxxxxxLF	02~24p
		06-381	20020111	20020111-DxxxxxxLF	02~24p
5.00mm	Plug	01-500	20020006	20020006-GxxxxxxLF	02~24p
		01-500	20020003	20020003-GxxxxxxLF	02~24p
		02-500	20020009	20020009-GxxxxxxLF	02~24p
		02-500	20020008	20020008-GxxxxxxLF	02~24p
	Socket	06-500	20020107	20020107-GxxxxxxLF	02~24p
		06-500	20020108	20020108-GxxxxxxLF	02~24p
		06-500	20020111	20020111-GxxxxxxLF	02~24p
5.08mm	Plug	01-508	20020003	20020003-HxxxxxxLF	02~24p
		01-508	20020006	20020006-HxxxxxxLF	02~24p
		02-508	20020009	20020009-HxxxxxxLF	02~24p
		06-508	20020108	20020108-HxxxxxxLF	02~24p
		06-508	20020111	20020111-HxxxxxxLF	02~24p

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NUMBER GS-12-625	TYPE Product Specification		
TITLE Terminal block- Plug and Socket, Fixed Plug		PAGE 2 of 8	REVISION D
		AUTHORIZED BY Jason Hsu	DATE Nov. 11 th , 2009
		CLASSIFICATION Unrestricted	

	Socket	02-508	20020008	20020008-HxxxxxxLF	02~24p
		06-508	20020107	20020107-HxxxxxxLF	02~24p
		06-508	20020110	20020110-HxxxxxxLF	02~24p
7.62mm	Plug	04-762	20020516	20020516-MxxxxxxLF	02~16p
		04-762	20020517	20020517-MxxxxxxLF	02~16p
	Socket	07-762	20020618	20020618-MxxxxxxLF	02~16p
		07-762	20020619	20020619-MxxxxxxLF	02~16p
		07-762	20020620	20020620-MxxxxxxLF	02~16p
		07-762	20020621	20020621-MxxxxxxLF	02~16p
		07-762	20020622	20020622-MxxxxxxLF	02~16p
3.50mm	Fixed Plug	26-350	20020327	20020327-CxxxxxxLF	02~24p
3.81mm		26-381	20020327	20020327-DxxxxxxLF	02~24p
5.00mm		21-500	20020316	20020316-GxxxxxxLF	02~24p
5.08mm		21-508	20020316	20020316-HxxxxxxLF	02~24p
		21-508	20020336	20020336-HxxxxxxLF	04~05p
7.62mm		12-762	20020705	20020705-MxxxxxxLF	02~03p

2.2 Other Standard and Specification

- 4.2.1 IEC 60998-1: Connecting Devices for Low Voltage Circuits for Household and Similar Purposes. Part 1: General Requirements.
- 4.2.2 IEC 60998-2-1: Connecting Devices for Low Voltage Circuits for Household and Similar Purposes. Part 2-1: Particular Requirements for Connecting Device as Separate Entities with Screw-type Clamping Units.
- 4.2.3 UL 1059: Terminal Blocks
- 4.2.4 EIA-364:

Electrical Connector/Socket Test Procedure Including Environmental Classifications

2.3 FCI SPECIFICATIONS

- 4.3.1 GES-03-601 Current Rating
- 4.3.2 GS-14 -1394 Package Specification

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NUMBER GS-12-625	TYPE Product Specification		
TITLE Terminal block- Plug and Socket, Fixed Plug		PAGE 3 of 8	REVISION D
		AUTHORIZED BY Jason Hsu	DATE Nov. 11 th , 2009
		CLASSIFICATION Unrestricted	

3.0 REQUIREMENTS

3.1 Design and Construction

Connectors shall be of the design, construction and physical dimensions specified on the applicable product drawings and shall consider the requirements mentioned on IEC 998-2-1 paragraph 10, relevant to clamping units.

3.2 Materials, Dimensions, Plating and Markings

All of these items are described on the individual drawings.

3.3 Ratings

Voltage rating, current rating, operation temperature and rated screw torque are described on the individual drawings.

3.4 Performance and Test Description

Product is designed to meet the electrical, mechanical and environment performance requirement list in section 3.5.

Unless otherwise specified, all tests shall be performed at ambient environmental conditions per IEC 160.

3.5 Test Requirements and Procedures Summary

3.5.1 ELECTRICAL REQUIREMENTS		
DESCRIPTION	TEST CONDITION	REQUIREMENT
3.5.1.1 Product Examination	Visual, dimensional and functional	Meet requirements of product drawing.
3.5.1.2 Low Level Contact Resistance	Mated connectors, apply a maximum voltage of 0.2 V between wire pole and terminated terminal.	20 milliohms maximum.
3.5.1.3 Insulation resistance	IEC 60998-1, paragraph 13e 13.3. Initial 1000Volts DC, or 500Volts DC after environment test applied between two adjacent contact with measurements made 1 minute after the application of the voltage.	1) 5000 MΩ Min. initial. 2) 5 MΩ minimum after environment test.
3.5.1.4 Dielectric Withstanding Voltage	IEC 60998-1, paragraph 13e 13.4. Apply 1.6K VAC, Test between adjacent contacts of connector assemblies.	No breakdown; Current leakage < 5 mA

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NUMBER GS-12-625	TYPE Product Specification		
TITLE Terminal block- Plug and Socket, Fixed Plug		PAGE 6 of 8	REVISION D
		AUTHORIZED BY Jason Hsu	DATE Nov. 11 th , 2009
		CLASSIFICATION Unrestricted	

TABLE 1: QUALIFICATION TESTING SEQUENCE for Pluggable Plug

TEST	PARA	Test Group							
		A	B	C	D	E	F	G	H
		Test Sequence							
Product examination	3.5.1.1	1	1	1	1	1	1	1	1
LLCR	3.5.1.2	2						3	
Insulation Resistance	3.5.1.3	3			3	3	3	4	
Dielectric withstanding voltage	3.5.1.4	4		4	4	4	4		
Mating/Un-mating force	3.5.2.1 3.5.2.2		2						
Torque	3.5.2.5		3						
Wire Pull Strength	3.5.2.4			2					
Temperature rise	3.5.1.5			3					
humidity test	3.5.3.3				2				
Heat resistance	3.5.3.1					2			
Cold resistance	3.5.3.2						2		
Salt Spray	3.5.3.4							2	
Fire Test (Glow wire test)	3.5.3.5								2
Qualification connector per group		3	3	3	3	3	3	3	3

TABLE 2: QUALIFICATION TESTING SEQUENCE-Pluggable Socket

TEST	PARA	Test Group							
		A	B	C	D	E	F	G	H
		Test Sequence							
Product examination	3.5.1.1	1	1	1	1	1	1	1	1
Insulation Resistance	3.5.1.3	2		3	3	3			
Dielectric withstanding voltage	3.5.1.4	3		4	4	4			
Pin Retention (Pull force)	3.5.2.6		2						
Humidity	3.5.3.3			2					
Heat resistance	3.5.3.1				2				
Cold resistance	3.5.3.2					2			
Salt Spray	3.5.3.4						2		
Fire Test (Glow wire test)	3.5.3.5							2	
Solder ability	3.5.2.7								2

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NUMBER GS-12-625	TYPE Product Specification		
TITLE Terminal block- Plug and Socket, Fixed Plug		PAGE 7 of 8	REVISION D
		AUTHORIZED BY Jason Hsu	DATE Nov. 11 th , 2009
		CLASSIFICATION Unrestricted	

Qualification connector per group	3	3	3	3	3	3	3	3	3
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TABLE 3: QUALIFICATION TESTING SEQUENCE-Fixed Plug

TEST	PARA	Test Group									
		A	B	C	D	E	F	G	H	J	
		Test Sequence									
Product examination	3.5.1.1	1	1	1	1	1	1	1	1	1	
LLCR	3.5.1.2	2						3			
Insulation Resistance	3.5.1.3	3			3	3	3	4			
Dielectric withstanding voltage	3.5.1.4	4		4	4	4	4				
Torque	3.5.2.5		2								
Wire Pull Strength	3.5.2.4			2							
Temperature rise	3.5.1.5			3							
humidity test	3.5.3.3				2						
Heat resistance	3.5.3.1					2					
Cold resistance	3.5.3.2						2				
Salt Spray	3.5.3.4							2			
Solder ability	3.5.2.7								2		
Fire Test (Glow wire test)	3.5.3.5									2	
Qualification connector per group		3	3	3	3	3	3	3	3	3	

NUMBER GS-12-625	TYPE Product Specification		
TITLE Terminal block- Plug and Socket, Fixed Plug		PAGE 8 of 8	REVISION D
		AUTHORIZED BY Jason Hsu	DATE Nov. 11 th , 2009
		CLASSIFICATION Unrestricted	

REVISION RECORD

REV	PAGE	DESCRIPTION	ECR#	DATE
A	All	Initial Release	DG09-0204	Nov 11 th , 2009
B	3	3.5.2.7 solderability test, Temperature change form 260 +/- 5 °C to 250 +/- 10°C	T09-1162	Dec 17 th , 2009
C	All	Add phase-2 product series	T10-0079	Jun 15 th , 2010
D	2	Add p/n 20020336		Jan 31 th , 2010

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