



Interface connector conforming to InfiniBand Standard

CONNECTOR MB-0097-2 July 2006

DG1 Series

RoHS Compliant





This product is a high-speed signal connector for balance transmission compliant to high-speed serial signal transmission of servers, routers, switches, external storage and more.

Features

- ■Connector conforming to IBTA (InfiniBand Trade Association) Copper Cable Standard 4x, 12x.
- Receptacle with wide nozzle area for automatic mounting.
- ■One-touch clip used for panel installation to receptacle (compatible with panel thickness1.0mm and 0.8mm).
- Shield cover for EMI prevention available for 12x receptacle.
- ■2-step lock spring (lanyard) used for secure locking and release of mated plug and receptacle.
- ■Collaborative development of cable harness with GORE from U.S.A. proceeds. A plug connector will be provided with cable harness.

Please contact us for further information.

Applications

Servers, Storages, Routers, Switches and Others

General Specifications

■No. of contacts

<4x>:signal 8 pair 25 pos.

<12x>: signal 24 pair 73 pos.

■Contact resistance: Initial 80m ohm max. (20m ohm max. after test)

■ Dielectric withstanding voltage: DC500V (per minute)

■Operating temperature:

-25 to+70 Deg. C

■Insertion/ Withdrawal force:

Insertion force <4x>/ 56N max.

<12x>/ 73N max.

Withdrawal force <4x>/ 49N max.

<12x>/ 59N max.

■Rated Current: 0.5A

■Insulation resistance: 1000M ohm min.

■Life time: 250 times

■Impedance:100 ohm +/-10%(peak)

■Crosstalk: Near-end 4% max.

■ DG1 Series



DG1R025HS* (4x Receptacle)

Clip for panel installation attached



DG1R073HS* (12x Receptacle)

Clip for panel installation attached



12x Receptacle

EMI countermeasure and Clip for panel installation attached

Cable Harness (for reference)



DG1P025S**L****R (4x Harness on both ends)



DG1P073S**L****R
(12x Harness on both ends)

Materials and Finishes

■ Receptacle (DG1R025HS*, DG1R073HS*) ■ Plug (DG1P025****, DG1P073****)

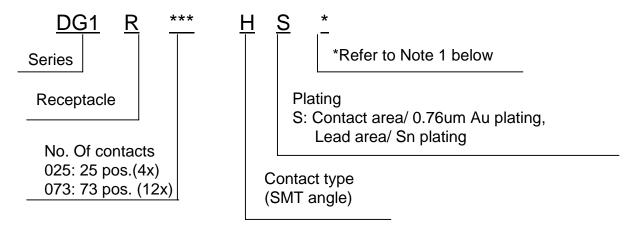
Components	Materials/Finishes		
Insulator	Glass filled LCP/		
	Color: Black(UL94V-0)		
Shell	Steel/ Nickel plating		
Signal contact	Copper alloy/		
	Contact area: Au plating over Ni		
	(0.76um min.)		
Ground contact			
	Terminal area: (S) Sn plating		
Lock plate	Steel/ Tin plating		
Gasket	Stainless steel		

Using Cable Harness

<u> </u>	<u> </u>		
Components	Materials/Finishes		
Backshell	Zinc/ Nickel plating		
Lock spring	Stainless steel		
Lanyard	Polycarbonate(UL94V-0)		
Screw	Steel/ Nickel plating		
Insulator	Glass filled LCP/		
	Color: Black(UL94V-0)		
Signal contact	Copper alloy/ Au plating over		
	nickel (0.76um min.)		
Ground contact	Copper alloy/ Au plating over		
	nickel (0.76um min.)		
Paddle card	FR-4		
Cable clamp	Copper alloy/ Nickel plating		
Ring	Copper alloy/ Nickel plating		

Ordering Information

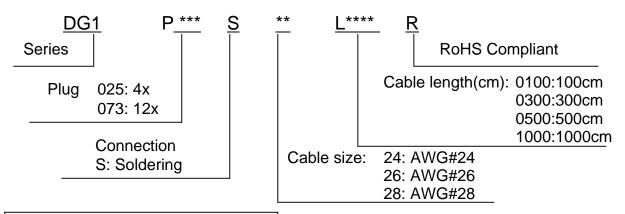
-Angle receptacle



*Note 1

Products	Mold boss	Metal boss height: Xdimension(mm)
DG1R***HS1	No	2.325
DG1R***HS2	No	3.125
DG1R***HS3	No	4.8
DG1R***HS4	Location post	2.325
DG1R***HS5	Location post	3.125
DG1R***HS6	Location post	4.8
DG1R***HS7	Crush pin	2.325
DG1R***HS8	Crush pin	3.125
DG1R***HS9	Crush pin	4.8

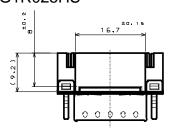
-Cable Harness

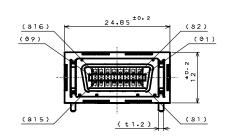


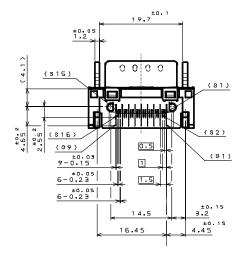
Dimensions and Design

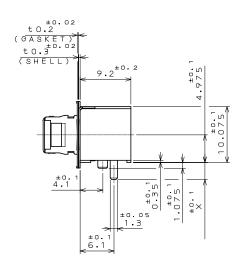
■ Receptacle

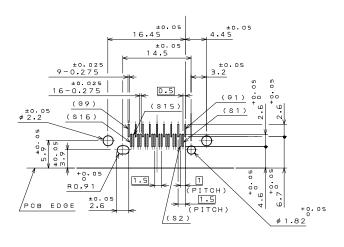
<4x> -DG1R025HS**









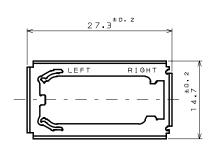


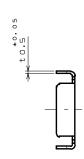
APPLICABLE P.C.B. DIMENSION(REF.)

-D029-50198 (Clip for panel installation)



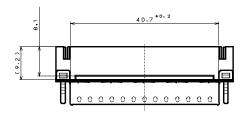
Compliant with 1.0mm-thick panel InfiniBand Standard

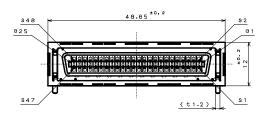


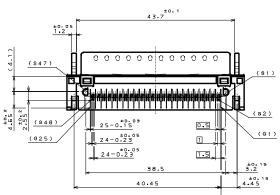


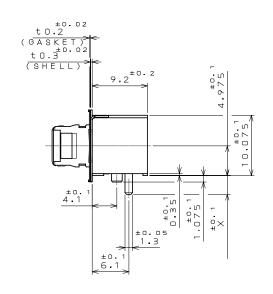
<12x>

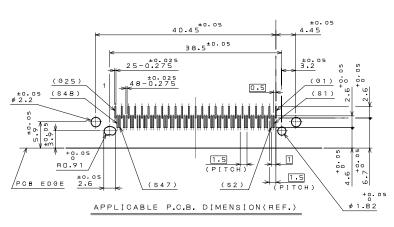
-DG1R073HS**



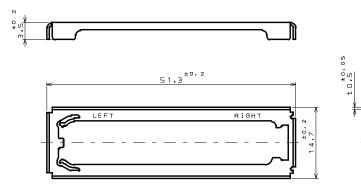






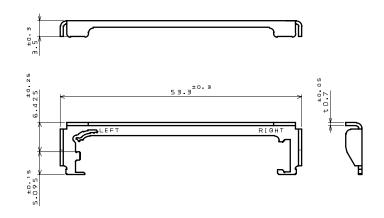


-D029-50197 (Clip for panel installation)



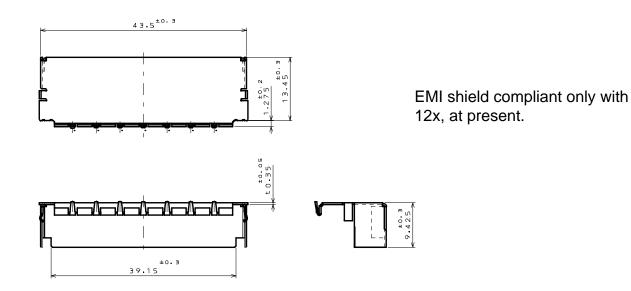
Compliant with 1.0mm-thick panel InfiniBand Standard

-D029-50199 (Clip for PCI panel installation)



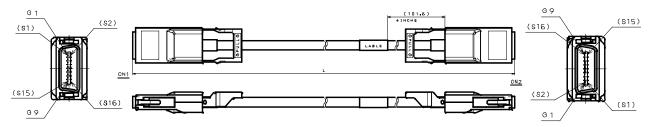
Compliant with 0.8mm-thick panel PCI Standard

-D283-50016R (Shield cover for EMI)



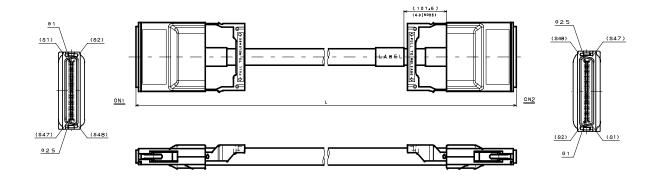
■ Cable Assembly

• 4x Harness



Applicable Cable	L Dimensions	Part Number	
AWG#24	1m	DG1P025S24L0100R	
	3m	DG1P025S24L0300R	
	5m	DG1P025S24L0500R	
	10m	DG1P025S24L1000R	
AWG#26	1m	DG1P025S26L0100R	
	3m	DG1P025S26L0300R	
	5m	DG1P025S26L0500R	
	10m	DG1P025S26L1000R	
AWG#28	1m	DG1P025S28L0100R	
	3m	DG1P025S28L0300R	
	5m	DG1P025S28L0500R	
	10m	DG1P025S28L1000R	

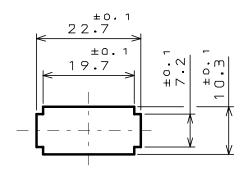
• 12x Harness



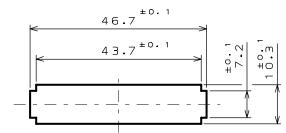
Applicable Cable	L Dimensions	Part Number
AWG#26	1m	DG1P073S26L0100R
	3m	DG1P073S26L0300R
	5m	DG1P073S26L0500R
	10m	DG1P073S26L1000R
AWG#28	1m	DG1P073S28L0100R
	3m	DG1P073S28L0300R
	5m	DG1P073S28L0500R
	10m	DG1P073S28L1000R

Applicable dimension for receptacle panel

4x Receptacle



12x Receptacle



Technical Information

	Part Number	SJ Drawing	Specifications	Note
Receptacle	DG1R025HS*	SJ103013	JACS-3284	4x Receptacle master drawing
	DG1R073HS*	SJ103011	JACS-3284	12x Receptacle master drawing
Clip for Panel Installation	D029-50198	SJ037707	JACS-3284	4x Receptacle clip
	D029-50197	SJ037655	JACS-3284	12x Receptacle clip
	D029-50199	SJ038604	JACS-3284	12x Receptacle clip (C type)
	D283-50016R	SJ106161	JACS-3284	12x Shield cover
Cable Harness	DG1P025S**L****R	Please contact us for further information.		
Cable Hallless	DG1P073S**L****R			

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Notice: Products shown in this leaflet are made for the applications listed below. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information.

Recommended applications: Computers, Office machines, Measuring devices,

Telecommunication devices (Terminals, Mobile devices), AV devices, Household applications, FA devices, etc.

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