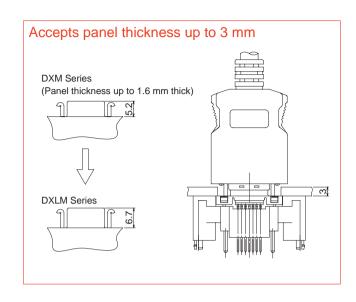
D-configuration Connectors for Digital Broadcasting Equipment

DXLM Series





Features

1. Increased range of the mounting panel thickness

Extension of the mating and locking area by 1.5 mm has allowed the DXLM Series to be mounted on panels up to 3mm thick.

2. Effective protection against electrostatic discharge

Unique Hirose Electric design makes reliable ground connection in sequence, with metal shell first, then the board circuit.

3. Temporary board holding feature

Deflecting force of the side protrusion of the insulator's posts against the walls of holes provides superior retention to the board, preventing leaning forward during handling.

4. Superior stability and retention to the board

Solid metal grounding posts are soldered to the board. This creates extremely strong retention to the board, allowing the assembly to retain reliable connections, even when large forces are applied when miss-mating or pulling.

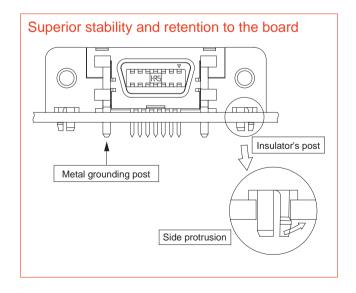
5. RC-5237. EIAJ Standard

Conforms to the requirements for D-configuration connector used in connections for digital image broadcast.

■Applications

TV, STB, DVD, LCD TV and other equipment supporting digital broadcasts

Static electricity Shell To board



■Product Specifications

Datina	Current rating	1 A DC	Operating temperature range	-25°C to +70°C
Rating	Voltage rating	250 V AC	Operating temperature range	-23 0 10 +70 0

Item	Specification	Conditions	
1. Contact resistance 80 m ohms max.		100mA DC	
2. Insulation resistance	500 M ohms min.	500 V DC	
3. Withstanding voltage	No flashover or insulation breakdown	500 V AC / one minute	
4. Mating/un-mating forces	30N max. (mating) 4.2N min. (un-mating)	With corresponding connector assembly.	
5. Durability (mating/un-mating)	Contact resistance: 25 m ohms max. variation from initial value No damage, cracks, or parts dislocation	500 cycles	
6. Vibration	No electrical discontinuity of 1 ms or more No damage, cracks, or parts dislocation	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours / 3 axis	
7. Shock	No damage, cracks, or parts dislocation	Acceleration of 490 m/s², 6 ms duration, sine half-wave wave form, 3 cycles in each of the 3 axis	
8. Humidity (Steady state)	Contact resistance: 25 m ohms max. variation from initial value Insulation resistance: 100 M ohms min.	96 hours at 40°C, humidity of 90% to 95%	
9. Temperature cycle	Contact resistance: 25 m ohms max. variation from initial value Insulation resistance: 100 M ohms min.	Temperature: -25 °C> +5 °C to +35 °C> +70 °C> +5 °C to +35 °C Duration: 30> 2 to 3> 30> 2 to 3 (Minutes) 5 cycles	
10. Salt Spray	Contact resistance: 25 m ohms max. variation from initial value	5% salt water solution for 48 hours	

■ Material

Part	Part Material		Remarks	
Contact: Receptacle	Brass	Selective gold plating	_	
Contact: Plug	ontact: Plug Phosphor bronze		_	
Insulator	PBT	Color: Black	UL94V-0	
Shell	Stainless steel	_	_	
Cover Non-Halogen		Color: Gray		
Cable outer insulation	Non-Halogen	Color: Gray	_	

■Ordering Information

Receptacles



Plugs

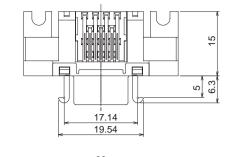
$$\frac{DX}{0}$$
 $\frac{40}{2}$ $\frac{LM}{0}$ $\frac{14}{0}$ $\frac{PP}{0}$ $\frac{150}{0}$ $\frac{CV}{0}$ $\frac{(50)}{0}$

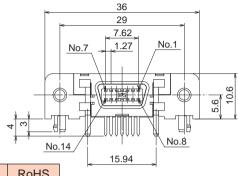
①Series name: DXLM		Board mounting type E: Temporary insulator's post	
2 Termination type 10: PCB Right-angle through hole type 20: PCB Straight through hole type 40: Soldering type		 Cable Harness type PP: D-configuration connector at both ends P: D-configuration connector on one end/single audio connectors on other end 	
3 Form type	Blank: Standard item 1: Miniature type 2: Miniature panel single screw panel attachment	3 Overall length 150: 150 cm	
4 Number of Positions: 14 5 Configuration of mating side S: Receptalce		Cover type CV: Standard	
		①Plating (50) : Gold plating	

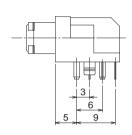
■Receptacles

● PCB Right-angle through hole type





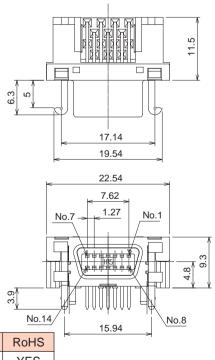


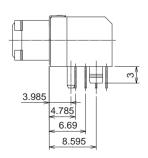


Part Number		CL No.	RoHS
	DX10LM-14SE(50)	230-5256-0-50	YES

Miniature PCB Right-angle through hole type



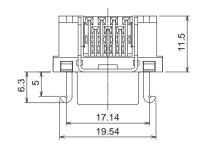


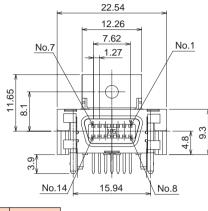


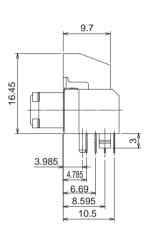
Part Number	CL No.	RoHS
DX10LM1-14SE(50)	230-5258-5-50	YES

● Miniature PCB Right-angle through hole type (Single panel screw)





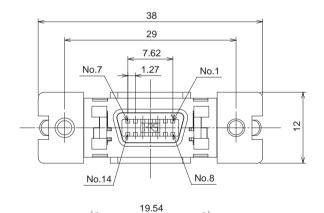




Part Number	CL No.	RoHS
DX10LM2-14SE(50)	230-5262-2-50	YES

● PCB Straight through hole type (Double panel screws)





			17.14
Part Number	CL No.	RoHS	
DX20LM-14SE(50)	230-5257-2-50	YES	3 2 2
			15.94 34.4

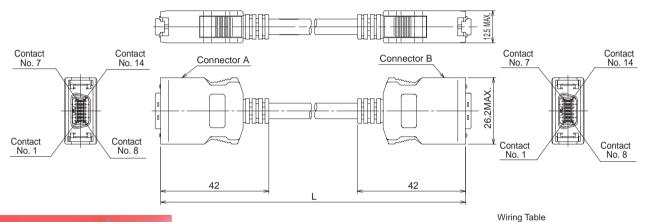
■Plug Connectors (Cable assemblies)

D-configuration connector to D-configuration connector



	Wiring Table					
	Connector A Contact No.	Connector B Contact No.	Pin assignment			
	1	1	Υ			
	2	2	Y-GND			
	3	3	Pb			
	4	4	Pb-GND			
	5	5	Pr			
	6	6	Pr-GND			
	7	7	Auxiliary line 1			
	8	8	Line 1			
	9	9	Line 2			
	10	10	Auxiliary line 2			
	11	11	Line 3			
norted	12	12	Switch GND			
	13	13	Auxiliary line 3			
	14	14	Switch			

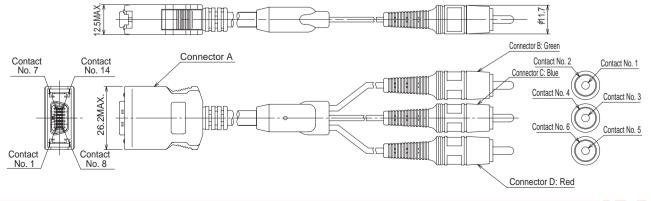
			Unit: cm
Part Number	CL No.	L	RoHS
DX40LM-14PP-150CV(50)	230-5260-7-50	150	YES
DX40LM-14PP-300CV(50)	230-5268-9-50	300	TES



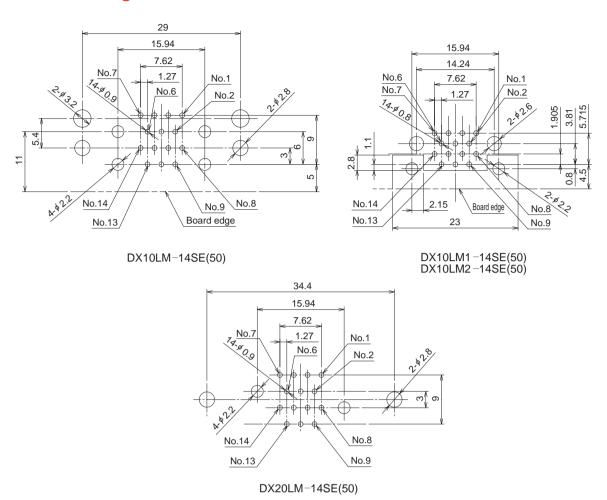


	Connector A Contact No.	Connector B: Green Contact No.	Connector C: Blue Contact No.		Pin assignment
	1	1	_	_	Υ
	2	2	_	_	Y-GND
	3	_	3	_	Pb
	4	_	4		Pb-GND
	5	_	_	5	Pr
	6	_	_	6	Pr-GND
	7	_	_		_
	8	_	_	_	_
	9	_	_	_	_
	10	_	_	_	_
Shorted	11	_	_		
Shorted	12	_	_		
	13	_	_		_
	14	_	_	_	_

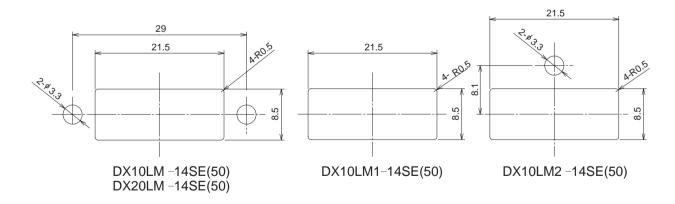
			Unit: cm
Part Number	CL No.	L	RoHS
DX40LM-14P-150CV(50)	230-5261-0-50	150	YES
DX40LM-14P-300CV(50)	230-5269-1-50	300	150



♦Board Mounting Pattern



♦Panel Cutout (Panel thickness 3 mm Max.)



Note: Use screw M3 x 10 (class 1 or 2).

Panel screw fastening torque:

For assemblies DX10LM-14SE(50), DX20LM-14SE(50) and DX10LM1-14SE: 0.5 to 0.7 N·m.

For assembly DX10LM2-14SE(50): 0.6 to 0.8 N·m.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Hirose Electric:

DX10LM-14SE(50) DX20LM-14SE(50) DX10LM1-14SE(50) DX10LM2-14SE(50) DX40LM-14P-300CV(50)