

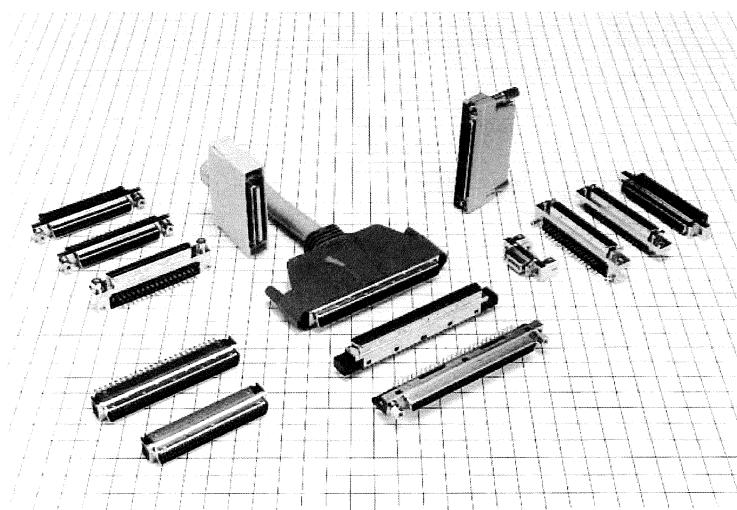
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DXM (1.27MM PITCH) SERIES HIGH-DENSITY I/O CONNECTOR

General

DXM series high-density I/O connectors with bellow contacts are perfect for tomorrow's miniaturized electronic devices. This new 1.27mm (0.050") interconnect design ensures positive locking, effortless coupling, terminal protection and EMI reduction in a miniaturized and rugged package. DXM series offer you one of the

most varied and complete lines of High-Density connectors in the world, i.e. IDC and Solder for the plug and right angle dip, straight dip, IDC and SMT for the receptacle. Available in 14, 20, 26, 36, 50, 68, 80, 100 and 110 way.



Features

1. 1.27mm (0.050") contact spacing conserves valuable board space and permits ultra-high density designs.
2. Bellow contacts create smooth and precise mating and unmating.
3. Unique shell design assures first make/last break grounding and overall noise protection.
4. IDC termination allows quick and low cost termination to AWG #28 wires.
5. Backshell and receptacle shell are made of die-cast zinc alloy or stainless steel to reduce the penetration of external EMI noise.
6. Ferrite added to DX Right Angle Dip Type for EMI Protection is available.
7. Overmold backshell provided for ESD protection is available in 'One-Touch' locking and 'Screw' locking.
8. Termination methods are available in IDC, Soldering, Right Angle Dip, Straight Dip and SMT.

Application

Office Automation, Computers, Measurement, Communication and Control Equipment, Factory Automation, Home Automation and other commercial applications needing high density interconnections.

Specifications

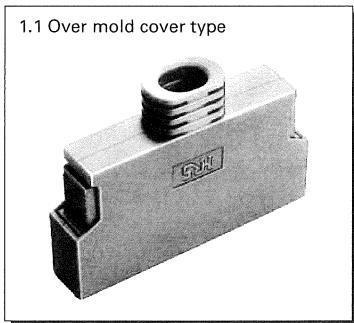
Items	Standard value
Current capacity	0.5A
Rated voltage	AC125V
Insulation resistance	250M Ω or more at DC100V
Contact resistance	35m Ω or less at DC100mA
Withstanding voltage	AC 300Vr.m.s. for 1 minute

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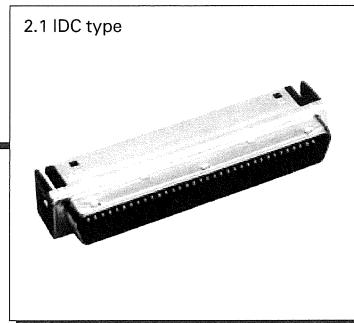
DXM Series Variations

● One-touch lock type (14, 20, 26, 36, 50, 68 pins)

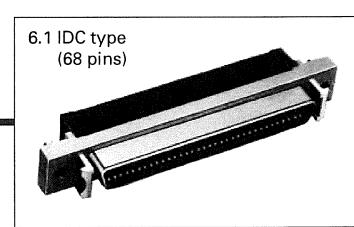
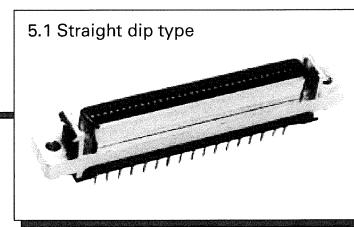
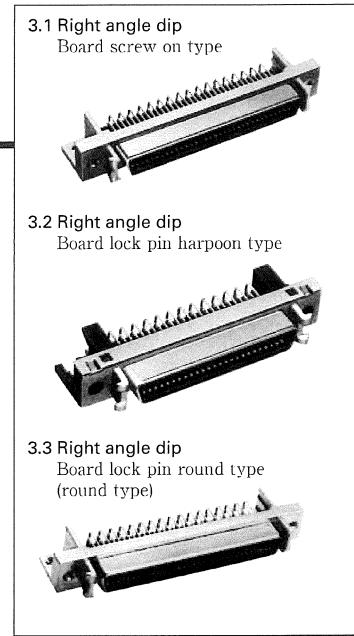
Plug cover



Plug



Receptacle



●Screw lock type (68, 80, 100, 110 pins)

Overmold cover type (100, 110 pins)

Plug cover

7.1 Over mold cover type



Plug

2.1 IDC type

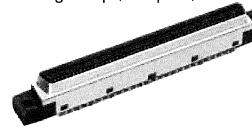


Receptacle

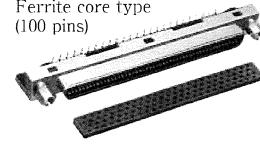
8.2 Right angle dip
Board lock pin harpoon type



13.1 Straight dip (110 pins)



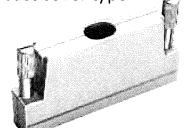
9.1 Right angle dip
Ferrite core type
(100 pins)



Die cast cover (68, 80, 100 pins)

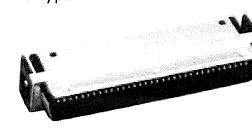
Plug cover

7.2 Die cast cover type



Plug

2.1 IDC type

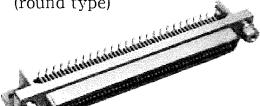


Receptacle

8.1 Right angle dip
Board screw on type



8.3 Right angle dip
Board lock pin round type
(round type)

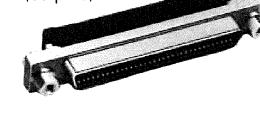


Note: There is no interchangeability between the locks of the die cast cover type and overmold type.

11.1 Straight dip type



12.1 IDC type
(68 pins)



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1. One Touch Lock Plug Cover

Ordering Information

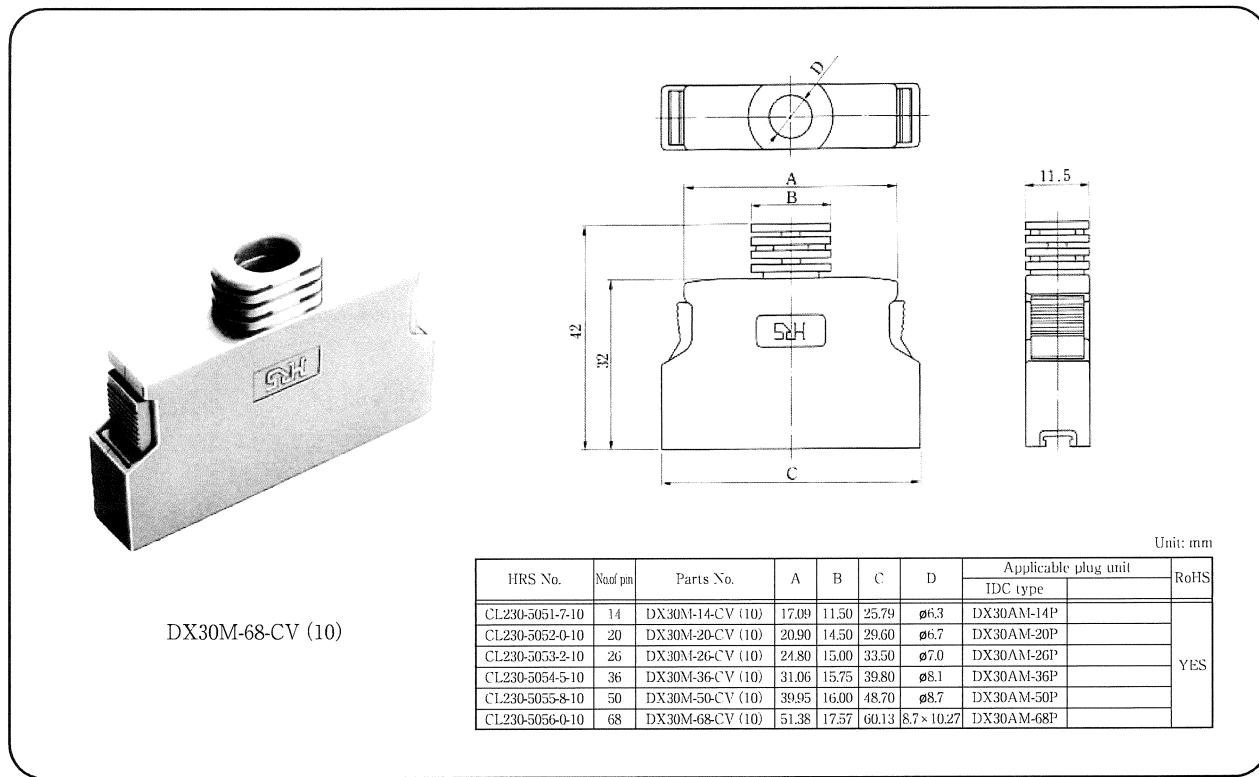
DX30M — 50 — CV
 (1) (2) (3)

Material Treatment

Item	Material	Remarks
Overmold cover case	Synthetic resin, Stainless	Light beige

- 1) Series number: DX30M
- 2) No. of pins: 14, 20, 26, 36, 50, 68
- 3) Cover case type
CV: Over mold cover case

1.1 Overmold Cover



General List of Engagement Combinations

Cover case and plug unit	Receptacle		
	Right angle type	Straight type	IDC type
DX30M-14-CV (10) + DX30AM-14P	DX10M-14S (E), DX10GM-14SE	DX20M-14S	—
DX30M-20-CV (10) + DX30AM-20P	DX10M-20S (E), DX10GM-20SE	DX20M-20S	—
DX30M-26-CV (10) + DX30AM-26P	DX10M-26S (E), DX10GM-26SE	DX20M-26S	—
DX30M-36-CV (10) + DX30AM-36P	DX10M-36S (E), DX10GM-36SE	DX20M-36S	DX33AM-36S
DX30M-50-CV (10) + DX30AM-50P	DX10M-50S (E), DX10GM-50SE	DX20M-50S	DX33AM-50S
DX30M-68-CV (10) + DX30AM-68P	DX10M-68S (E), DX10GM-68SE	DX20M-68S	DX33AM-68S

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2. Plug Unit (Interchangeable One Touch-Screw Lock Type)

Ordering Information

DX30 A M — 50 P

- 1) Series No.: DX--M
- 2) Wiring style 30: Discrete cable IDC (for fine wire use)
- 3) Applicable wire A: AWG#28 (Discrete cable press-fit type)
- 4) No. of pins: 14, 20, 26, 36, 50, 68, 80, 100, 110
- 5) Mating type P: Plug

Material Treatment

Item	Material	Remarks
Shell	Steel	Nickel plating
Insulator	PBT	Black (UL94V-0)
Male terminal	Copper alloy	Selective gold plating

Applicable

Conductor size	Interface cable	
	Discrete cable fine wire type	
Conductor composition	AGW#28	
o.d. of insulator	0.58	0.62
Cable style	UL20276 and UL2789	UL2990

2.1 Discrete Cable IDC Type (for Fine Wire)

DX30AM-68P

Unit: mm

HRS No.	No. of pin	Parts No.	A	B	Applicable cover case		RoHS
					One touch lock type	Screw lock type	
CL230-5024-4	14	DX30AM-14P	17.09	7.62	DX30M-14-CV (10)	—	YES
CL230-5025-7	20	DX30AM-20P	20.90	11.43	DX30M-20-CV (10)	—	
CL230-5026-0	26	DX30AM-26P	24.71	15.24	DX30M-26-CV (10)	—	
CL230-5027-2	36	DX30AM-36P	31.06	21.59	DX30M-36-CV (10)	—	
CL230-5028-5	50	DX30AM-50P	39.95	30.48	DX30M-50-CV (10)	—	
CL230-5029-8	68	DX30AM-68P	51.38	41.96	DX30M-68-CV (10)	DX30M-68-CV2	
CL230-5030-7	80	DX30AM-80P	59.00	49.53	—	DX30M-80-CV2	
CL230-5031-0	100	DX30AM-100P	71.70	62.23	—	DX30M-100-CV1+2	
CL230-5064-9	110	DX30AM-110P	78.05	68.58	—	DX30M-110-CV1	

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3. One Touch Lock, Receptacle Right Angle Type

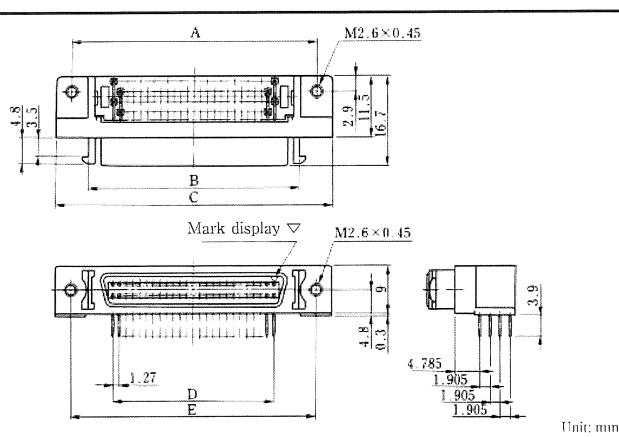
Ordering Information

DX	10	※	M	—	50	S	E	(50)
(1)	(2)	(3)	(1)		(4)	(5)	(6)	(7)

- 1) Series No.: DX--M
- 2) Wiring style 10: Right angle type
- 3) Lock style (one touch lock type)
 - Blank : (Receptacle case material: zinc alloy die cast)
 - G : (Receptacle case material: steel)

3.1 Board Screw on Type



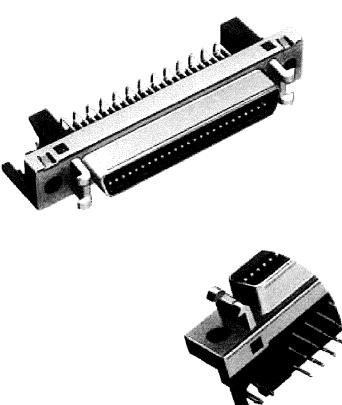


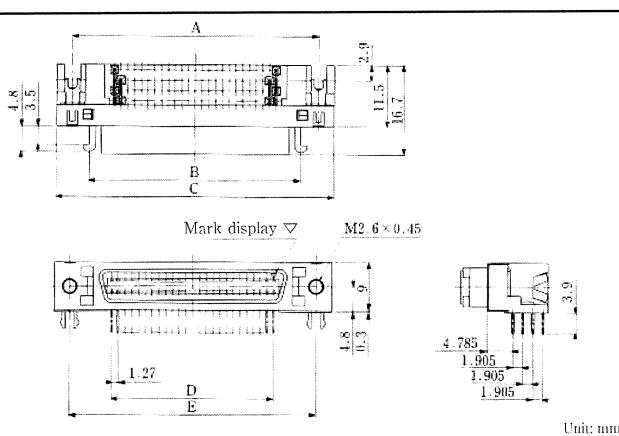
DX10GM-68S (50)

HRS No.	No.of pin	Parts No.	A	B	C	D	E	RoHS
CL230-5223-0-50	14	DX10GM-14S (50)	23.64	17.14	29.54	7.62	23.64	YES
CL230-5177-5-50	20	DX10GM-20S (50)	27.45	20.95	33.35	11.43	27.45	
CL230-5225-6-50	26	DX10GM-26S (50)	31.26	24.76	37.16	15.24	31.26	
CL230-5226-9-50	36	DX10GM-36S (50)	37.61	31.11	43.51	21.59	37.61	
CL230-5227-1-50	50	DX10GM-50S (50)	46.50	40.00	52.40	30.48	46.50	
CL230-5181-2-50	68	DX10GM-68S (50)	57.93	51.43	63.83	41.91	57.93	

Unit: mm

3.2 Board Lock Pin Harpoon Type



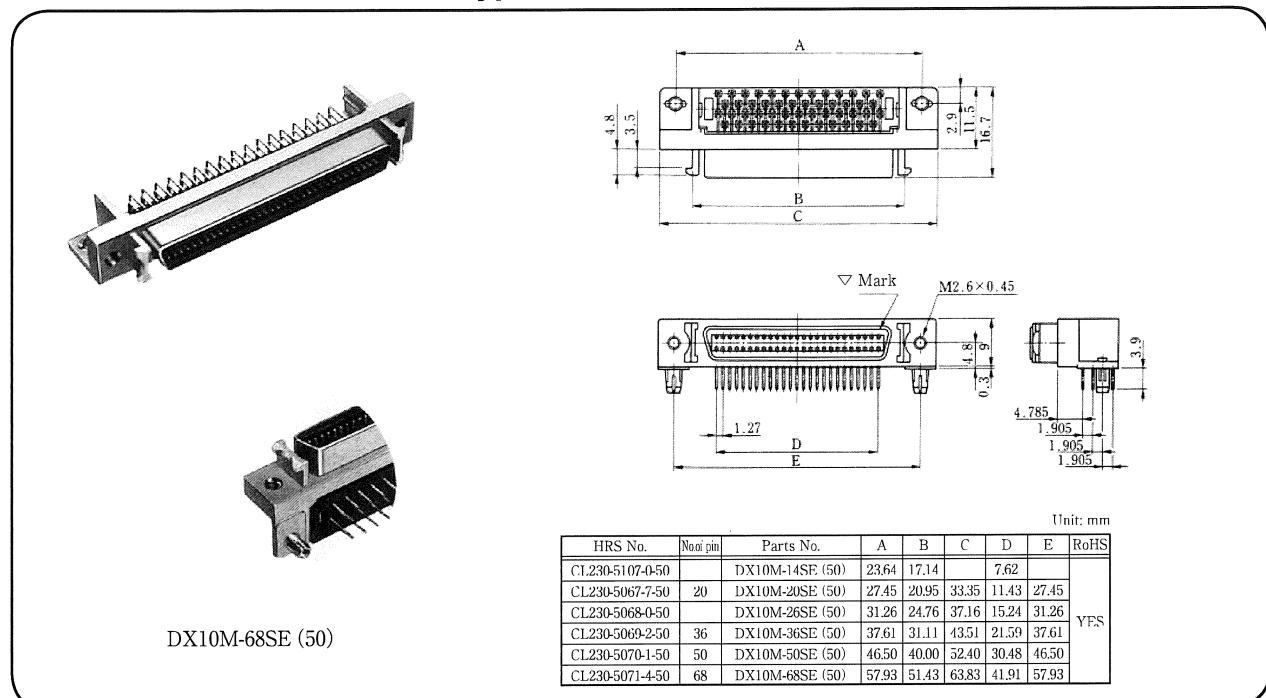


DX10G1M-50SE (50)

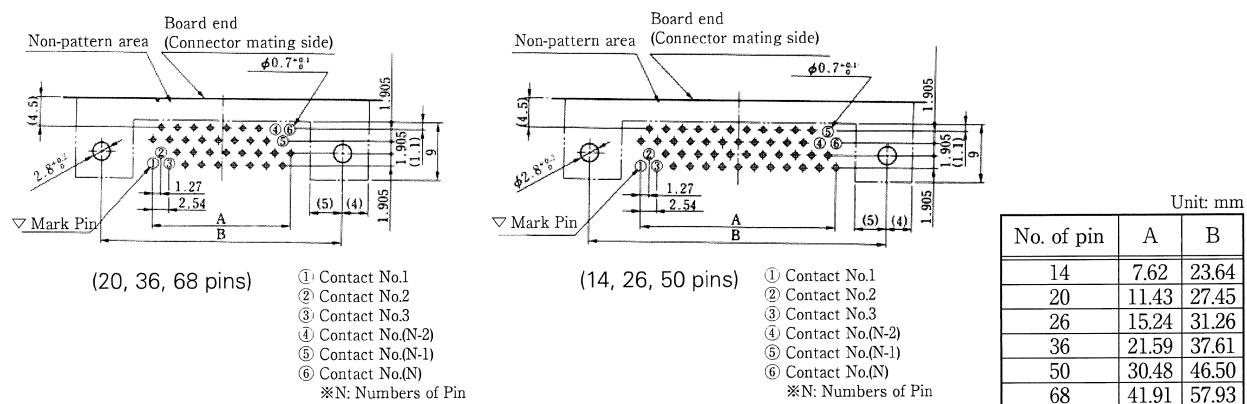
HRS No.	No.of pin	Parts No.	A	B	C	D	E	RoHS
CL230-5210-9-50	14	DX10G1M-14SE (50)	23.64	17.14	29.54	7.62	23.64	YES
CL230-5130-1-50	20	DX10G1M-20SE (50)	27.45	20.95	33.35	11.43	27.45	
CL230-5212-4-50	26	DX10G1M-26SE (50)	31.26	24.76	37.16	15.24	31.26	
CL230-5213-7-50	36	DX10G1M-36SE (50)	37.61	31.11	43.51	21.59	37.61	
CL230-5214-0-50	50	DX10G1M-50SE (50)	46.50	40.00	52.40	30.48	46.50	
CL230-5134-2-50	68	DX10G1M-68SE (50)	57.93	51.43	63.83	41.91	57.93	

Unit: mm

3.3 Board Lock Pin Round Type



PCB Layout (Recommended board thickness:1.6mm)



Panel-Fitting Dimensional Drawing (Recommended panel thickness:max. 1.6mm)



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5. One Touch Lock, Receptacle Straight Type

Ordering Information

DX 20 * M - 50 S (50)

(1) (2) (3) (1) (4) (5) (6)

1) Series number: DX-M

2) Wiring style

20: Straight dip

3) Lock style

Blank: One Touch Lock Type

4) Number of positions: 14, 20, 26, 36, 50, 68

5) Type of aperture

S: Receptacle connector

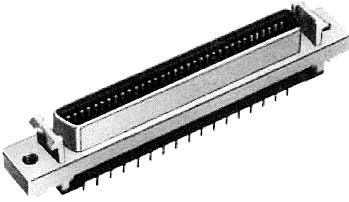
6) Individual specifications

(50): Dip portion gold plated

Material Treatment

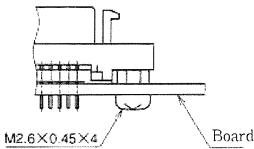
Item	Material	Remarks
Receptacle case	Zinc alloy die cast	Nickel plating
Shell	Steel	Nickel plating
Insulators	PBT resin	Black (UL94V-0)
Female terminal	Copper alloy	Selective gold plating

5.1 Receptacle Straight Type



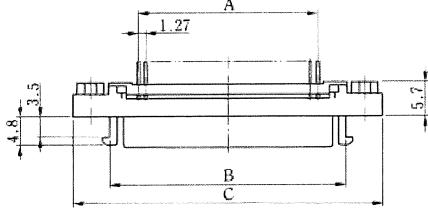
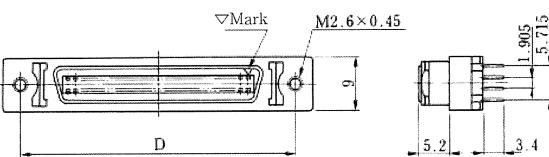
DX20M-68S (50)

■ Connector mounting condition



M2.6 x 0.45 x 4
Board

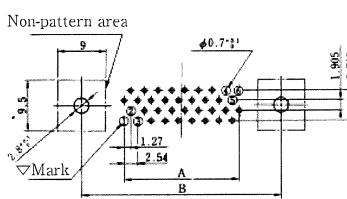
Note: Fasten the printed circuit board with screws using a tightening torque of 0.3 to 0.4 N.m.

Unit: mm

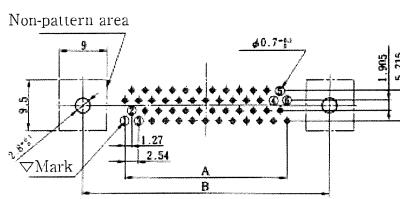
HRS No.	No. of pin	Parts No.	A	B	C	D	RoHS
CL230-5012-5-50	14	DX20M-14S (50)	7.62	17.14	29.54	23.64	YES
CL230-5013-8-50	20	DX20M-20S (50)	11.43	20.95	33.35	27.45	
CL230-5014-0-50	26	DX20M-26S (50)	15.24	24.76	37.16	31.26	
CL230-5015-3-50	36	DX20M-36S (50)	21.59	31.11	43.51	37.61	
CL230-5016-6-50	50	DX20M-50S (50)	30.48	40.00	52.40	46.50	
CL230-5017-9-50	68	DX20M-68S (50)	41.91	51.43	63.83	57.93	

PCB Layout (Recommended board thickness:1.6mm)



(20, 36, 68 pins)

- ① Contact No.1
- ② Contact No.2
- ③ Contact No.3
- ④ Contact No.(N-2)
- ⑤ Contact No.(N-1)
- ⑥ Contact No.(N)
- ※N: Numbers of Pin



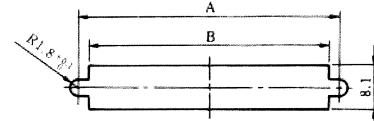
(14, 26, 50 pins)

- ① Contact No.1
- ② Contact No.2
- ③ Contact No.3
- ④ Contact No.(N-2)
- ⑤ Contact No.(N-1)
- ⑥ Contact No.(N)
- ※N: Numbers of Pin

No. of pin	A	B
20	11.43	27.45
36	21.59	37.61
68	41.91	57.93

No. of pin	A	B
14	37.61	33.90
26	46.50	42.80
68	57.93	54.23

Panel-Fitting Dimensional Drawing (Recommended panel thickness:max. 1.6mm)



Unit: mm

No. of pin	A	B
14	23.64	19.99
20	27.45	23.8
26	31.26	27.6
36	37.61	33.9
50	46.50	42.8
68	57.93	54.23

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6. One Touch Lock Receptacle Flat Ribbon Cable Type

Ordering Information

DX 33 A M — 68 S (50)

(1) (2) (3) (1) (4) (5) (6)

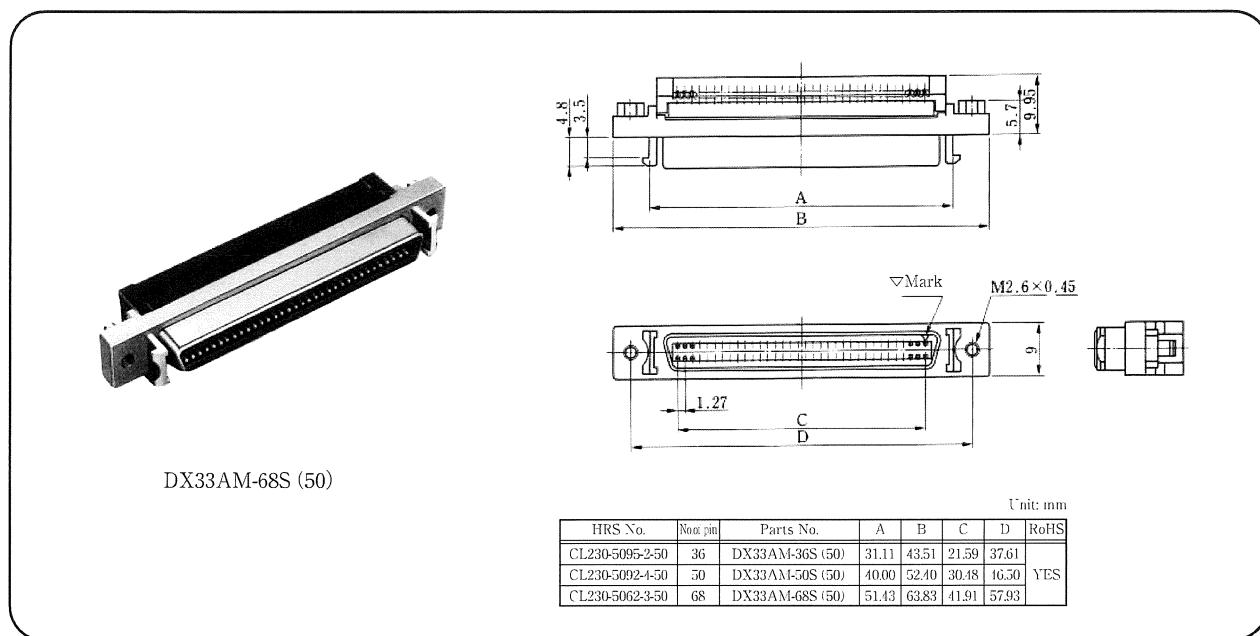
- 1) Series No.: DX--M
- 2) Connector style
33: Flat IDC type
(for ribbon cable use)
- 3) Applicable cable
A: AWG#28

- 4) No. of pins 36, 50, 68
- 5) Mating type
S: Receptacle
- 6) Individual specifications
(50):Dip portion gold plated

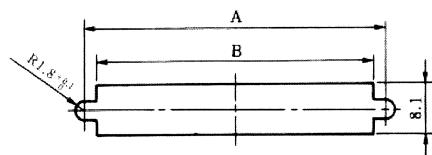
Material Treatment

Item	Material	Remarks
Receptacle case	Zinc alloy die cast	Nickel plating
Shell	Steel	Nickel plating
Insulators	PBT resin	Black (UL94V-0)
Female terminal	Copper alloy	Selective gold plating

6.1 Receptacle, Flat Ribbon Cable Type



Panel-Fitting Dimensional Drawing (Recommended panel thickness: max. 1.6mm)



Unit: mm

No. of pin	A	B
36	37.61	33.90
50	46.50	42.80
68	57.93	54.23

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7. Screw Lock Type, Plug Cover

Ordering Information

DX30M — 110 — CV1

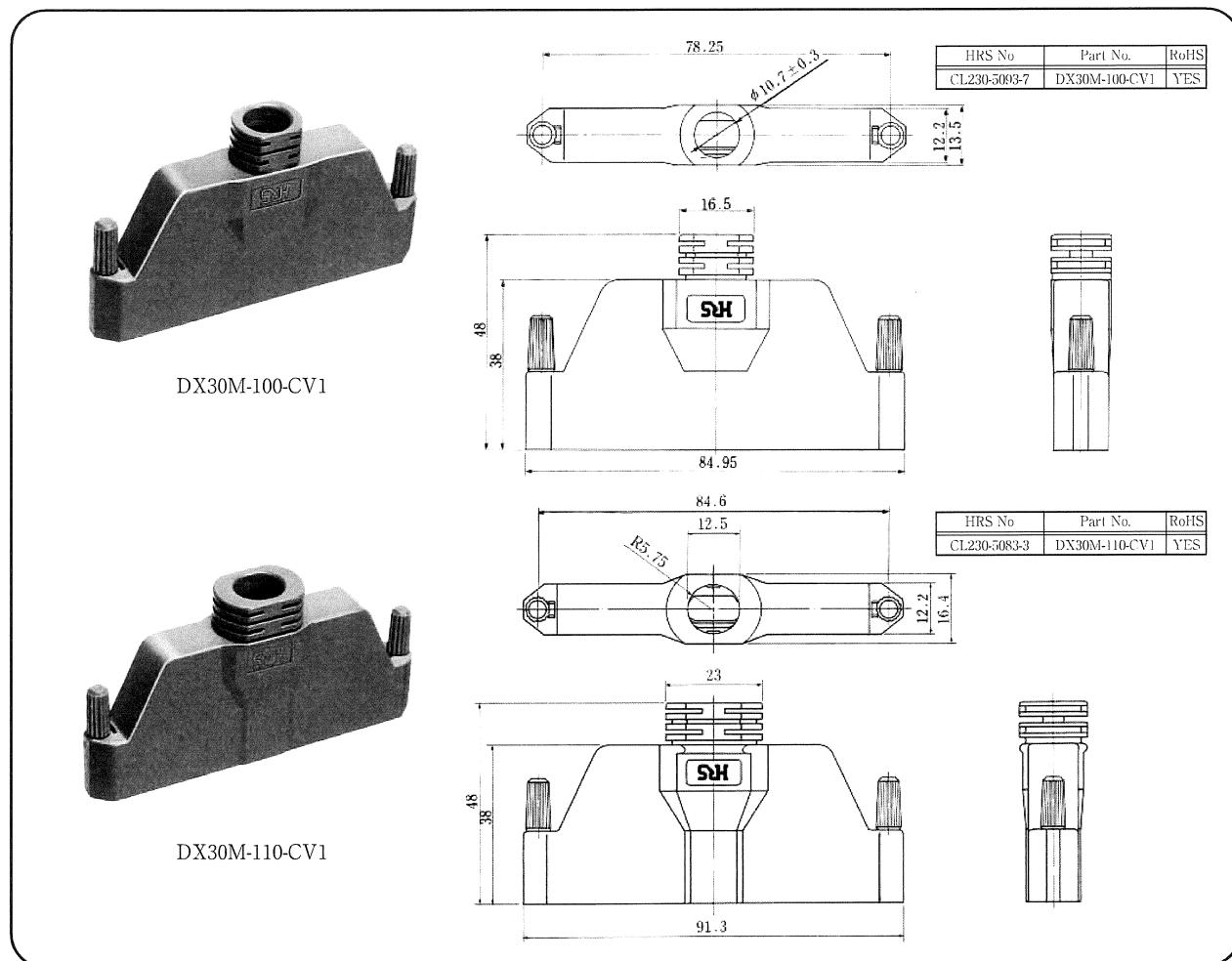
(1) (2) (3)

- 1) Series No.: DX30M
- 2) No. of pins: 68, 80, 100, 110
- 3) Cover case type
 CV1: Overmold cover case
 CV2: Die cast cover

Material Treatment

Item	Material	Remarks
Overmold cover	Stainless steel, Synthetic resin	Dark grey
Die cast cover	Zinc alloy die cast	Silver coated

1.1 Overmold Cover

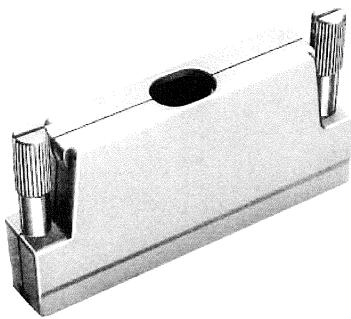


List of Engagement Combinations

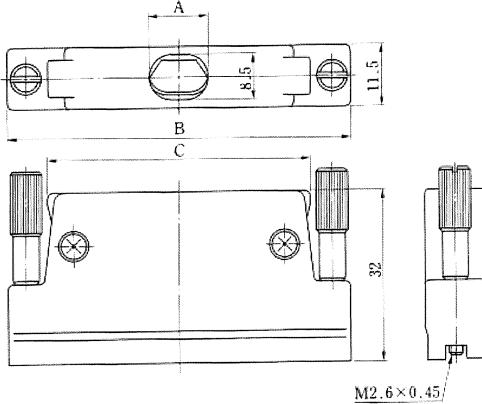
Cover case and plug unit	Receptacle	
	Right angle type	Ferrite core type
DX30M-100-CV1 + DX30AM-100P	DX10AM-100SE2 (50), DX10AM-100SE1 (50)	DX10AMF-100SE1 (50)
DX30M-110-CV1 + DX30AM-110P	DX10AM-110SE2 (50), DX10AM-110SE1 (50)	—

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7.2 Die Cast Cover



DX30M-68-CV2



HRS No.	No. of pin	Parts No.	A	B	C	Applicable plug unit		RoHS
						IDC type		
CL230-5054-9	68	DX30M-68-CV2	11.00	64.93	49.68		DX30AM-68P	
CL230-5060-8	80	DX30M-80-CV2	12.50	72.55	57.30		DX30AM-80P	
CL230-5061-0	100	DX30M-100-CV2	14.00	85.25	70.00		DX30AM-100P	YES

List of Engagement Combinations

Cover case and plug unit	Receptacle		
	Right angle type	Straight DIP type	Ribbon cable type
DX30M-68-CV2 + DX30AM-68P	DX10BM-68S (50), DX10BM-68SE (50)	DX20BM-68S (50)	DX33AM-68S-LNA (50)
DX30M-80-CV2 + DX30AM-80P	DX10BM-80S (50), DX10BM-80SE (50)	DX20BM-80S (50)	—
DX30M-100-CV2 + DX30AM-100P	DX10BM-100S (50), DX10BM-100SE (50)	DX20BM-100S (50)	—

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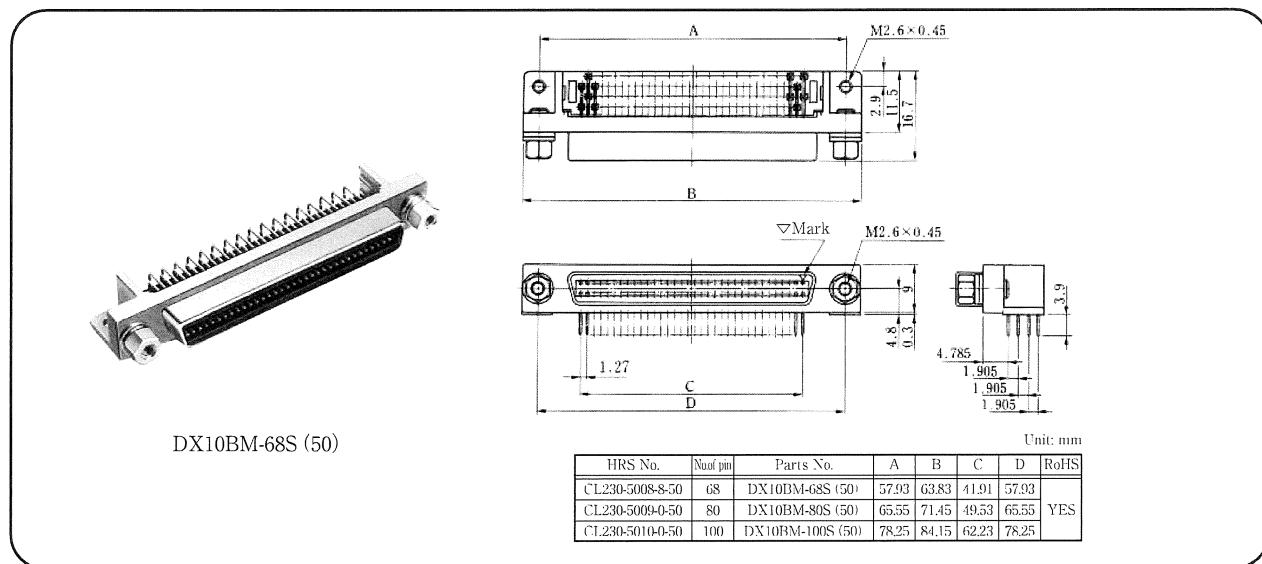
8. Screw Lock, Receptacle Right Angle Type

Ordering Information

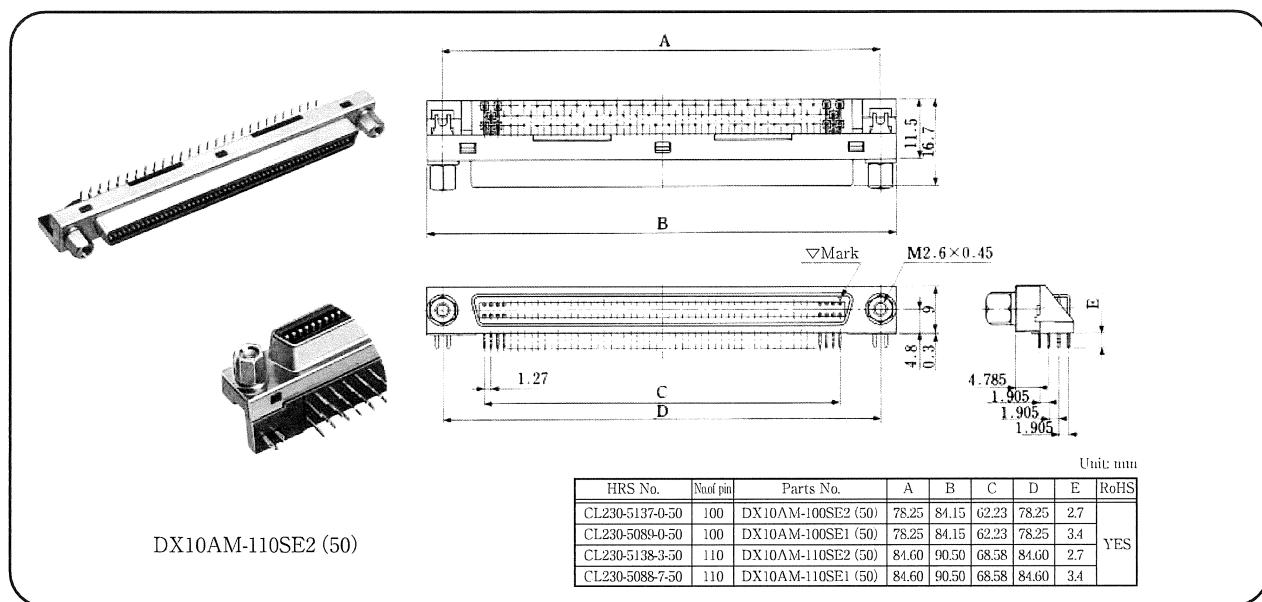
DX	10	B	M	—	68	S	E	(50)
(1)	(2)	(3)	(1)		(4)	(5)	(6)	(7)

- 1) Series No.: DX--M
- 2) Connector style 10: Right angle type
- 3) Lock style (Screw lock type)
 - A: Receptacle case material — Steel
 - B: Receptacle case material — Zinc alloy die cast
- 4) No. of pins: 68, 80, 100, 110

8.1 Board Screw on Type

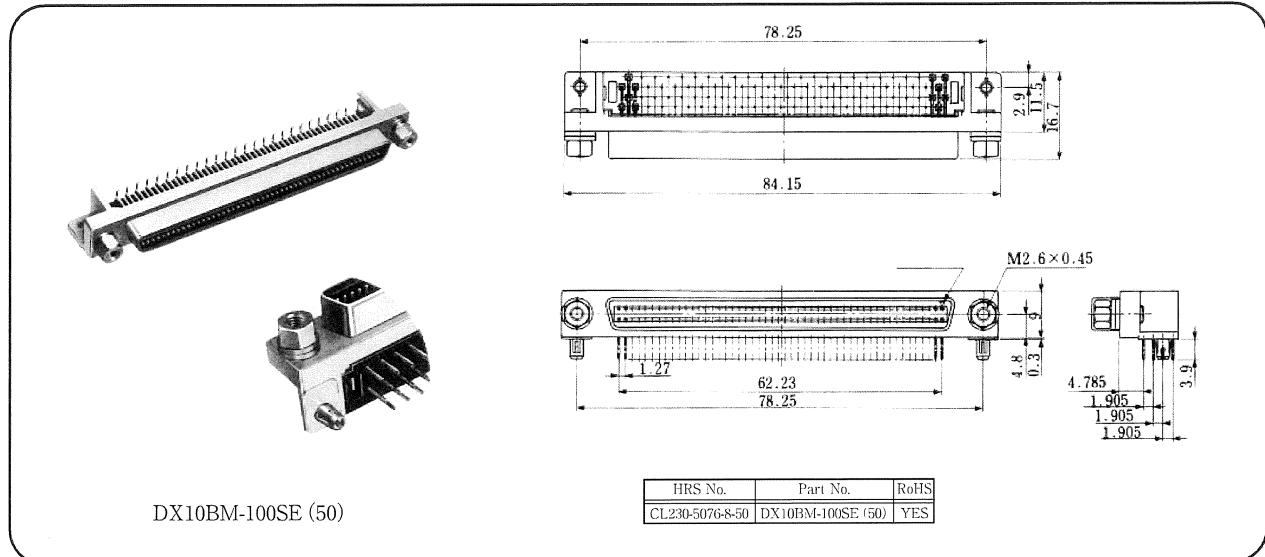


8.2 Board Lock Pin Harpoon Type

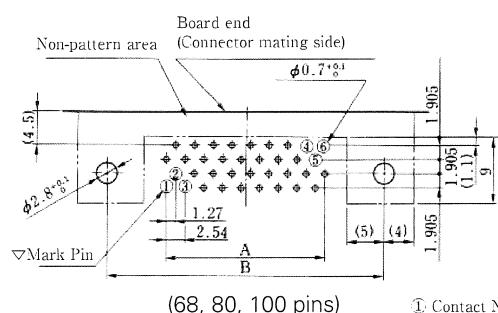


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8.3 Board Lock Pin, Round Type

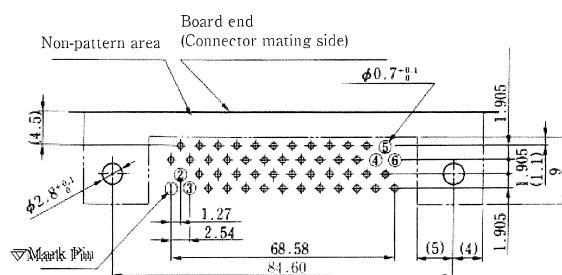


PCB Layout (Recommended Board Thickness:1.2mm, 1.6mm)



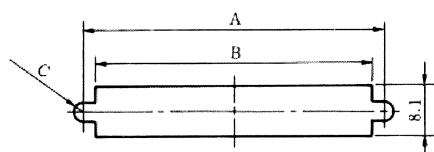
Unit: mm		
No. of pin	A	B
68	41.91	57.93
80	49.53	65.55
100	62.23	78.25

- ① Contact No.1
- ② Contact No.2
- ③ Contact No.3
- ④ Contact No.(N-2)
- ⑤ Contact No.(N-1)
- ⑥ Contact No.(N)



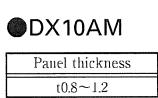
(110 pins) ① Contact No.1
 ② Contact No.2
 ③ Contact No.3
 ④ Contact No.(N-2)
 ⑤ Contact No.(N-1)
 ⑥ Contact No.(N)
 *N: Numbers of Pin

Panel-Fitting Dimensional Drawing



● DX10BM

Panel thickness	No. of washers
0~t0.4	2
t0.8~1.2	1
t1.6~2	No washer

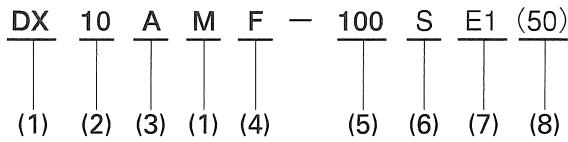


No. of Pin	A	B	C	Remarks
68	57.93	54.23	R1.85	DX10BM-68S (50)
80	65.55	61.85	R1.85	DX10BM-80S (50)
100	78.25	74.55	R1.85	DX10BM-100SE (50)
100	78.25	74.55	R1.5	DX10AM-100SE2 (50) DX10BM-100SE1 (50)
110	84.5	80.8	R1.5	DX10AM-110SE2 (50) DX10AM-110SE1 (50)

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9. Screw Lock, Receptacle Ferrite Core Type

Ordering Information



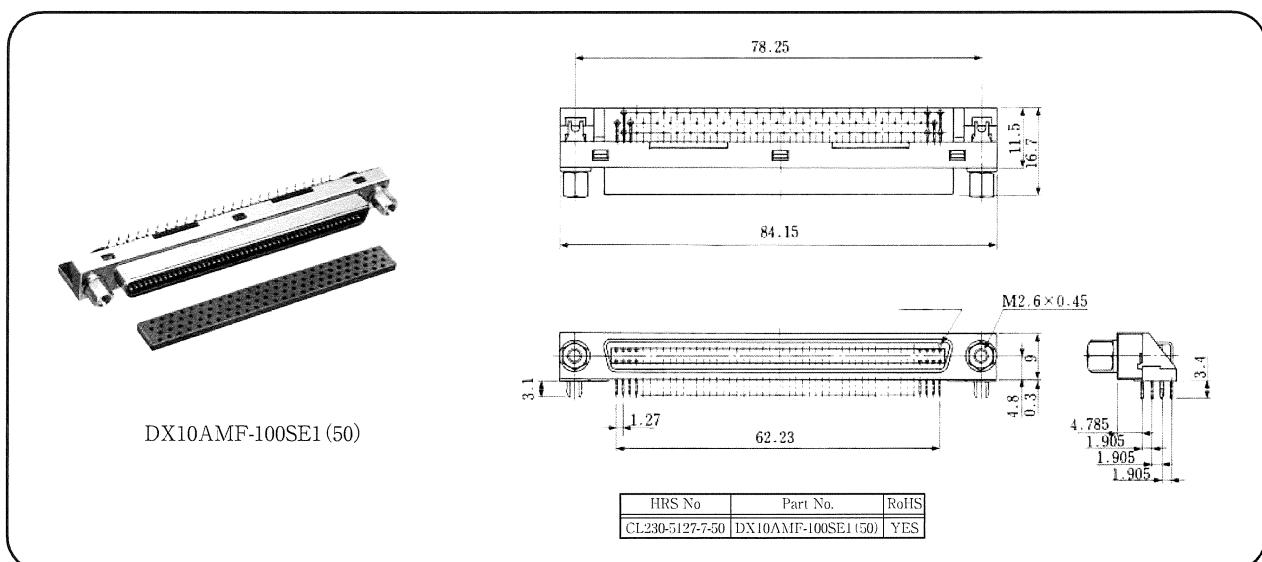
- 1) Series No.: DX--M
- 2) Connector style
10: Right angle type
- 3) Lock style (Screw lock type)
A: Receptacle case material-steel
- 4) Board mounting style
F: Ferrite core type

- 5) No. of pins: 100
- 6) Mating type
- S: Receptacle
- 7) Board fitting type
- E1: Lock pin type (Board thickness 1.6mm)
- 8) Individual specifications
- (50): Dip portion gold plated

Material Treatment

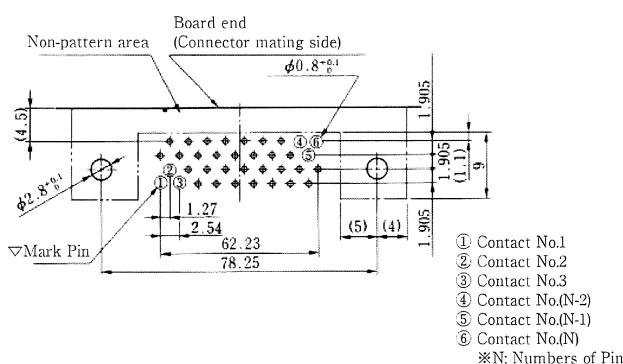
Item	Material	Remarks
Receptacle case	Steel	Nickel plating
Insulator	PBT resin	Black (UL94V-0)
Female terminal	Copper alloy	Selective gold plating
Ferrite core	—	—

9.1 Right Angle Ferrite Core Type

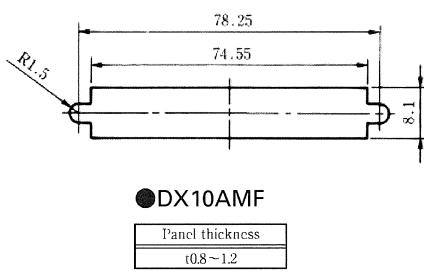


PCB Layout

(Recommended Board Thickness:1.6mm)



Panel-Fitting Dimensional Drawing



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11. Screw Lock Receptacle Straight Type

Ordering Information

DX 20 B M — 80 S (50)

(1) (2) (3) (1) (4) (5) (6)

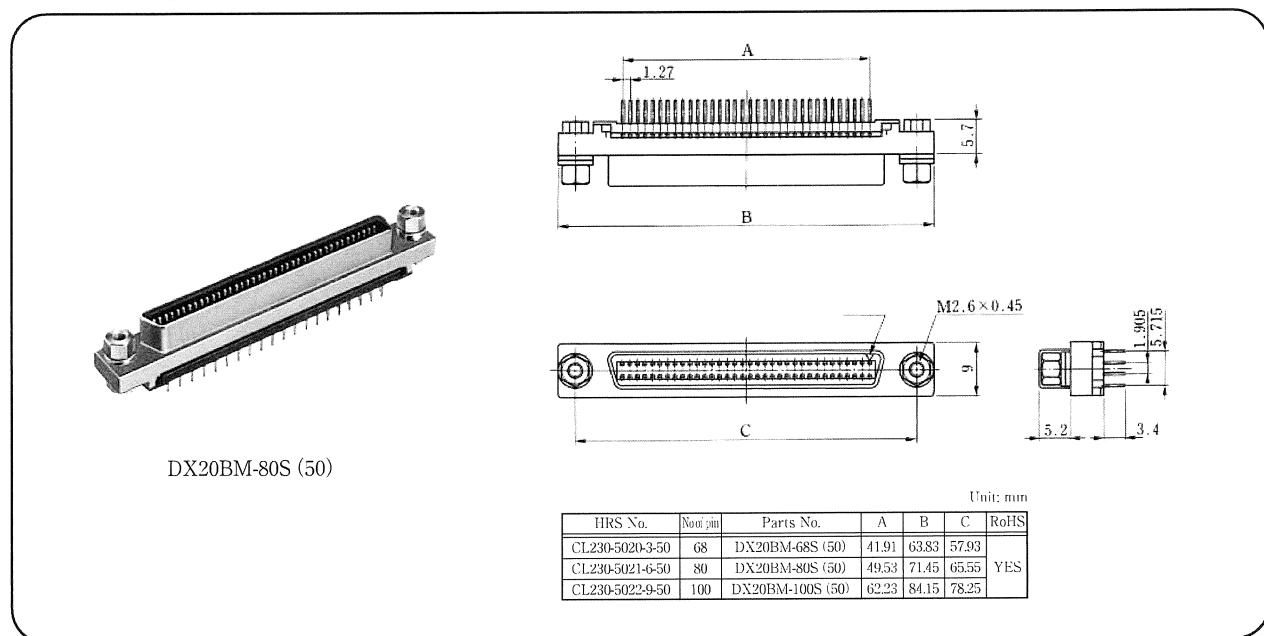
- 1) Series No.: DX--M
- 2) Connector style
20: Straight dip
- 3) Lock style
B: Screw lock type

- 4) No. of pins: 68, 80, 100
- 5) Mating type
S: Receptacle
- 6) Individual specifications
(50): Dip portion gold plated

Material Treatment

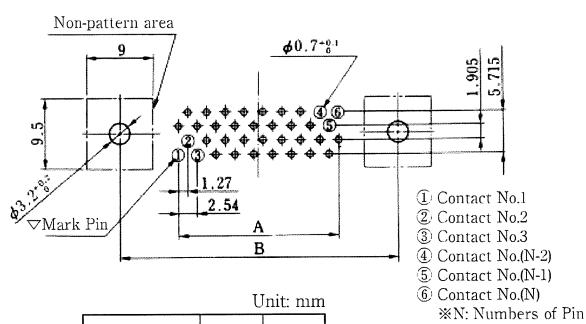
Item	Material	Remarks
Receptacle case	Zinc alloy die cast	Nickel plating
Shell	Steel	Nickel plating
Insulator	PBT resin	Black (UL94V-0)
Female terminal	Copper alloy	Selective gold plating

11.1 Receptacle Straight Type



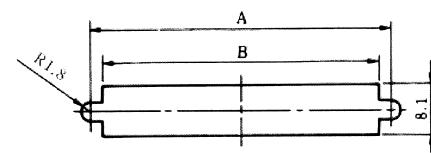
PCB Layout

(Recommended Board Thickness:1.6mm)



No. of pin	A	B
68	41.91	57.93
80	49.53	65.55
100	62.23	78.25

Panel-Fitting Dimensional Drawing



●DX20BM

Panel thickness	No. of washers
0~t0.4	2
t0.8~t1.2	1
t1.6~t2	No washer

Unit: mm

No. of pin	A	B
68	57.93	54.23
80	65.55	61.85
100	78.25	74.55

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12. Screw Lock Receptacle, Flat Ribbon Cable Type

Ordering Information

DX 33 A M — 68 S LNA (50)

(1) (2) (3) (1) (4) (5) (6) (7)

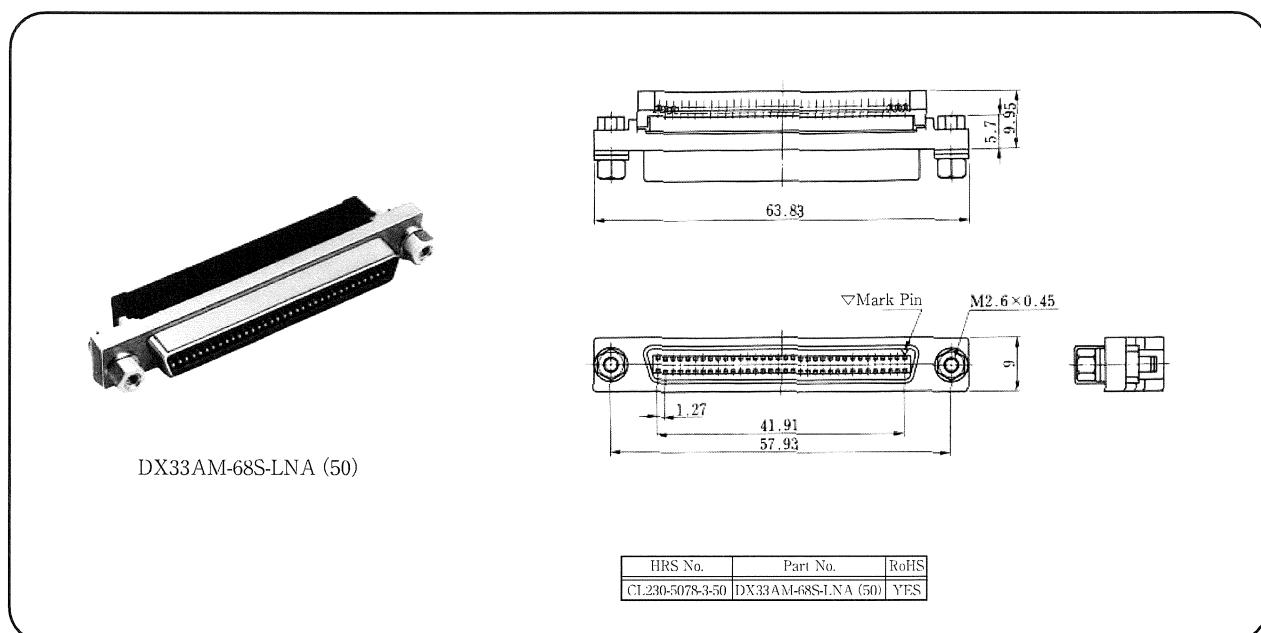
- 1) Series No.: DX--M
- 2) Connector style
33: Flat IDC type (for ribbon cable)
- 3) Applicable wire
A: AWG#28
- 4) No. of pins: 68

- 5) Mating type
S: Receptacle
- 6) Board fitting type
LNA: Screw lock type
- 7) Individual specifications
(50) :Dip portion gold plated

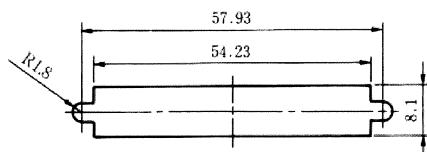
Material Treatment

Item	Material	Remarks
Receptacle case	Zinc alloy die cast	Nickel plating
Shell	Steel	Nickel plating
Insulator	PBT resin	Black (UL94V-0)
Female terminal	Copper alloy	Selective gold plating

12.1 Receptacle, Flat Ribbon Cable Type



Panel-Fitting Dimensional Drawing



●DX33AM

Panel thickness	No. of washers
0~0.4	2
0.8~1.2	1
1.6~2	No washer

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13. Plug Straight Type

Ordering Information

DX 20E M - 110 P

(1) (2) (1) (3) (4)

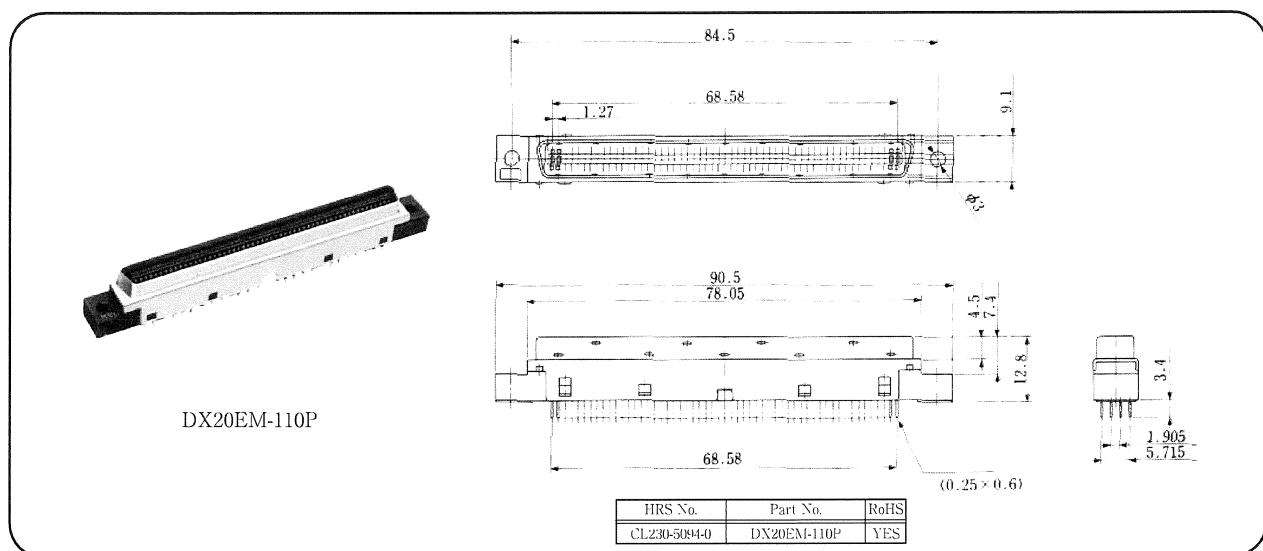
1) Series No.: DX--M
 2) Connector style
 20E: Straight dip

3) No. of pins: 110
 4) Mating type
 P: Plug

Material Treatment

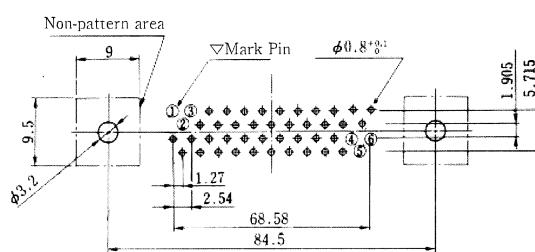
Item	Material	Remarks
Shell	Steel	Nickel plating
Insulator	PBT resin	Black (UL94V-0)
Male contact	Copper alloy	Selective gold plating

13.1 Plug Straight Type



PCB Layout

(Recommended Board Thickness:1.5mm)



Panel-Fitting Dimensional Drawing
 (Recommended Panel Thickness:Max.1.5mm)

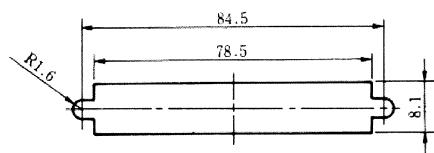
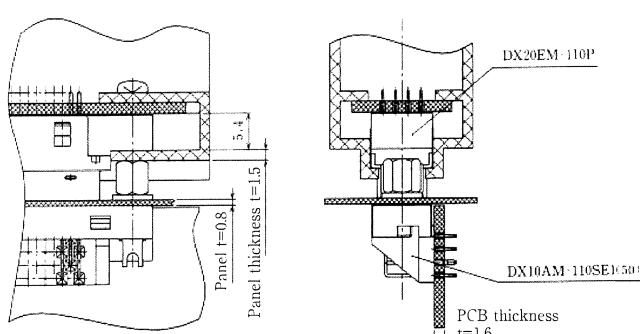


Diagram of Mounting Conditions for DX20EM

Note: Secure the connectors and boards of this product to the panel.



List of Engagement Combinations

Plug straight type	Receptacle right angle type
DX20EM-110P	DX10AM-110SE1 (50) or DX10AM-110SE2 (50)

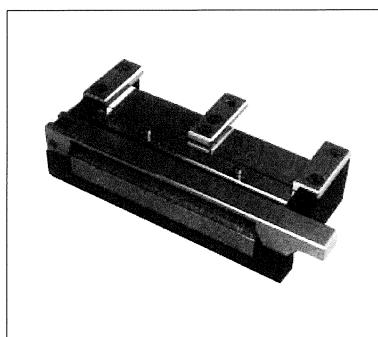
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Connecting Method (Discrete Cable IDC Type)

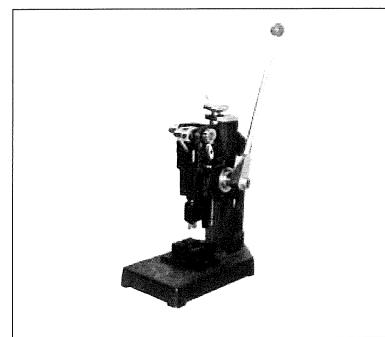
Connecting Tools



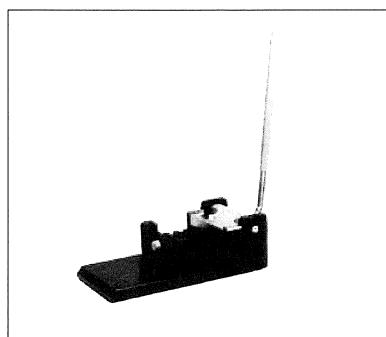
Cable distribution jig



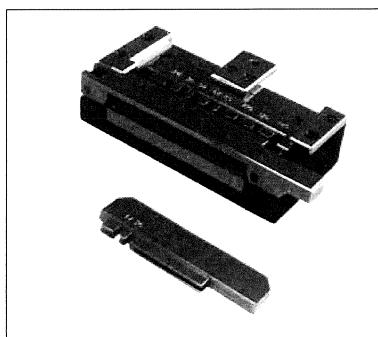
Cable shearing unit



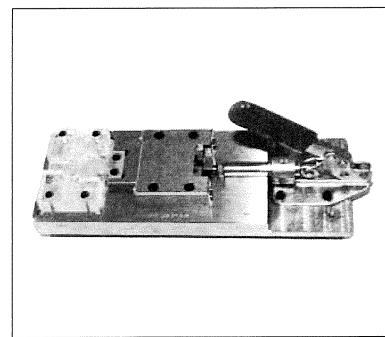
Shield case fixing jig



IDC press



IDC guide plate unit



Hood insertion jig

List of Connecting Jigs and Accessories Plug Connector

Plug Connector

Cable	Connector Name	Process					
		Cable Distribution	Remaining part cutting		Crimping		Shield case fixing
			Press	Unit	Press	Remaining Part cutting	
I/O Cable (Discrete wire)	DX30AM-14P	By hand DX30AM-CAT1 CL902-2090-0					Order attachments separately *1
	DX30AM-20P						Order attachments separately *2
	DX30AM-26P						
	DX30AM-36P						
	DX30AM-50P		DX30AM-HP1 CL902-0210-0	DX30AM-CU1 CL902-0211-2	DX30AM-HP1 CL902-0210-0	DX30AM-GPT1 CL902-0214-0	DX30AM-CCT1 CL902-0213-8
	DX30AM-68P						DX30AM-HPT1 CL902-0216-6
	DX30AM-80P						
	DX30AM-100P						
	DX30AM-110P						

*1 DX30AM-CCT1 (61) CL902-0213-8 (61) *2 DX30AM-HPT1-14 CL902-0217-9 *4 DX30AM-HPT1-110 CL902-0219-4
DX30AM-CCT1 (62) CL902-0213-8 (62) *3 DX30AM-HPT1-100 CL902-0218-1

Receptacle Connector

Cable	Connector Name	Press	Guide plate
Ribbon Cable	DX33AM-68S-LNA (50)	Hi-Flex Connecting press HHP-502 CL550-0082-2	DX33AM-GPA (Come with pressure block) CL902-0233-5