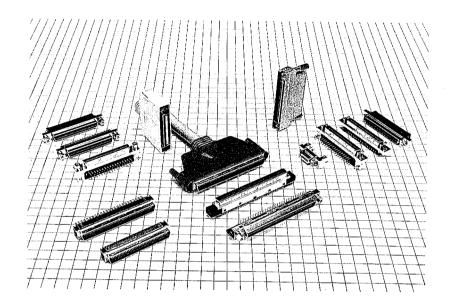
DXM (1.27MM PITCH) SERIES HIGH-DENSITY I/O CONNECTOR

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.
- IDC termination allows quick and low cost termination to AWG #28 wires.
- 5. Backshell and receptacle shell are made of diecast 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.
- 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.

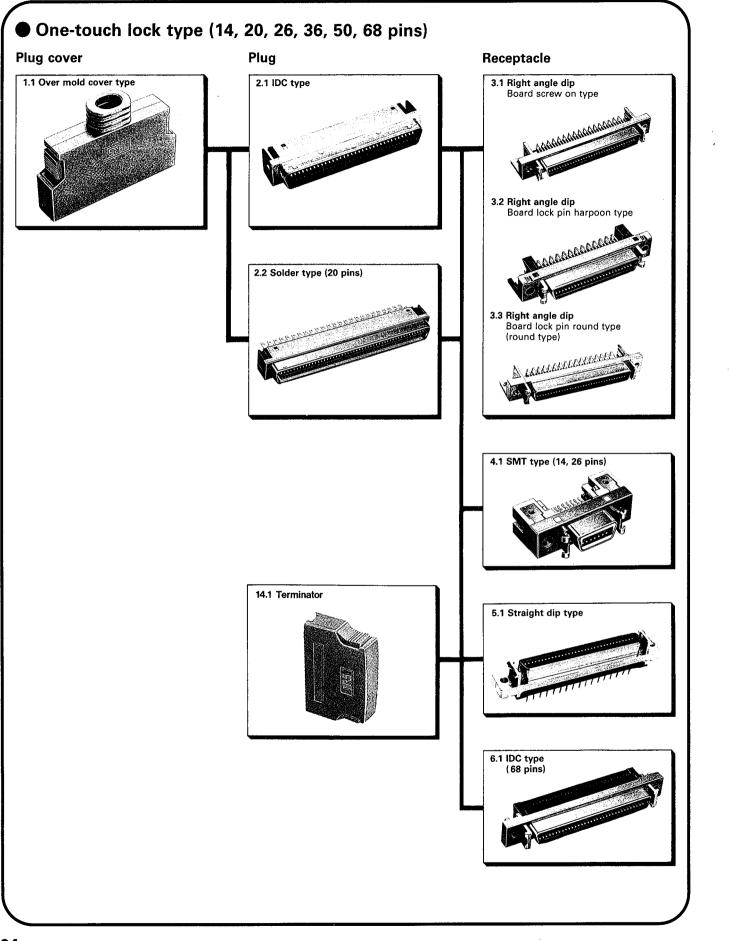
Applications

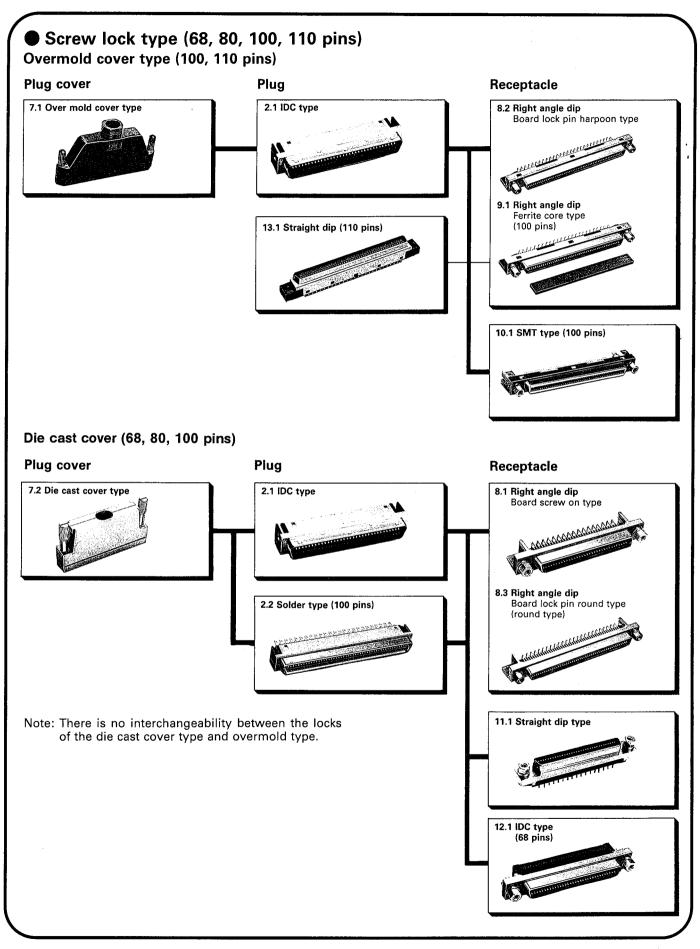
Office Autmation, Computers, Measurement, Communication and Control Equipment, Factory Automation, Home Automation and other commercial applications needing high density interconnections.

ltems	Standard value			
Current capacity	0.5A			
Rated voltage	AC125V			
Insulation resistance	250MΩ or more at DC100V			
Contact resistance	$35m\Omega$ or less at DC100mA			
Withstanding voltage	AC 300Vr.m.s. for 1 minute			

Specifications

DXM Series Variations

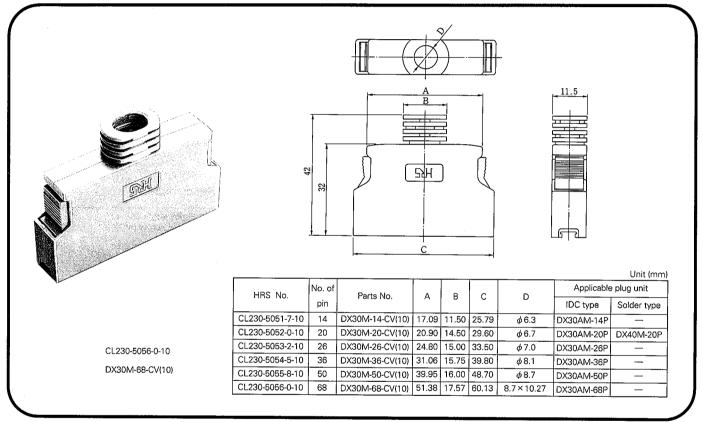




1. One Touch Lock Plug Cover

Ordering Information Material Treatment DX30M - 50 - CV ltem Material Treatment Synthetic resin, Overmold cover case Light beige Stainless (1)(2)(3)1) Series number: DX30M 2) No. of pins: 14, 20, 26, 36, 50, 68 3) Cover case type CV: Over mold cover case

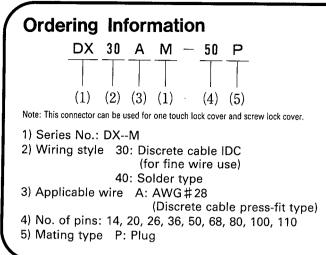
1.1 Overmold Cover



General List of Engagement Combinations

Cover case and plug unit	Receptacle					
Cover case and plug unit	Right angle type	SMT type	Straight type	IDC type		
DX30M-14-CV(10) + DX30AM-14-P	DX10M-14S(E), DX10GM-14SE	DX10MS-14ST2	DX20M-14S			
DX30M-20-CV(10) + DX30AM-20-P	DX10M-20S(E), DX10GM-20SE		DX20M-20S	<u> </u>		
DX30M-26-CV(10) + DX30AM-26-P	DX10M-26S(E), DX10GM-26SE	DX10MS-26ST%	DX20M-26S	<u> </u>		
DX30M-36-CV(10) + DX30AM-36-P	DX10M-36S(E), DX10GM-36SE		DX20M-36S	DX33AM-36S		
DX30M-50-CV(10) + DX30AM-50-P	DX10M-50S(E), DX10GM-50SE	—	DX20M-50S	DX33AM-50S		
DX30M-68-CV(10) + DX30AM-68-P	DX10M-68S(E), DX10GM-68SE	-	DX20M-68S	DX33AM-68S		

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



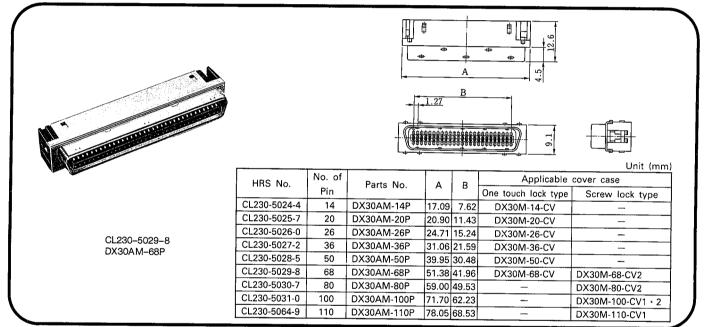
Material Treatment

ltem	Material	Remarks
sheli	Steel	Nickel plating
Insulator	РВТ	Black (UL94V-0)
Male terminal	Copper alloy	Selective gold plating

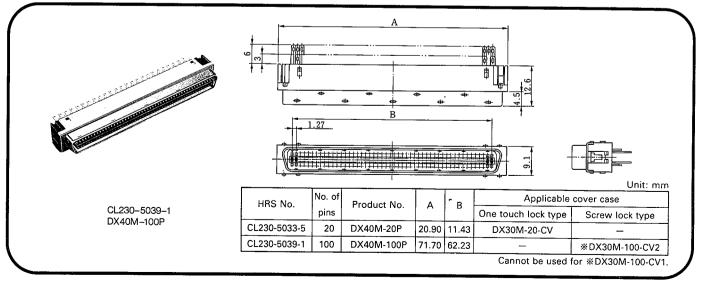
Applicable

	Interface cable				
	Discrete cable fine wire type Solder typ				
Conductor size	AWG # 28				
Conductor composition	7/0.127				
o.d. of insulator	0.58	0.62	0.58		
Cable style	UL20276 and UL2789	UL2990	UL20276 and UL2789		

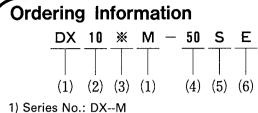
2.1 Discrete Cable IDC Type (for Fine Wire)



2.2 Solder Type



3. One Touch Lock, Receptacle Right Angle Type



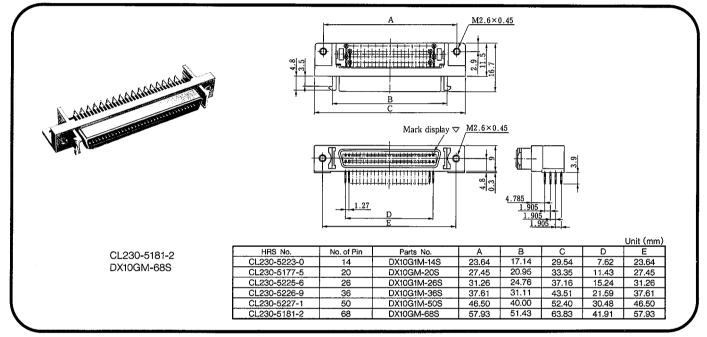
- T) Series No.: DA--IVI
- 2) Wiring style 10: Right angle type
- 3) Lock style (one touch lock type)
 - Blank : (Receptacle case material: zinc alloy die cast)
 - G : (Receptacle case material: steel)

- 4) No. of pins: 14, 20, 26, 36, 50, 68
- 5) Mating type S: Receptacle6) Board-fitting type
 - Blank : Screw on type E : Lock pin type

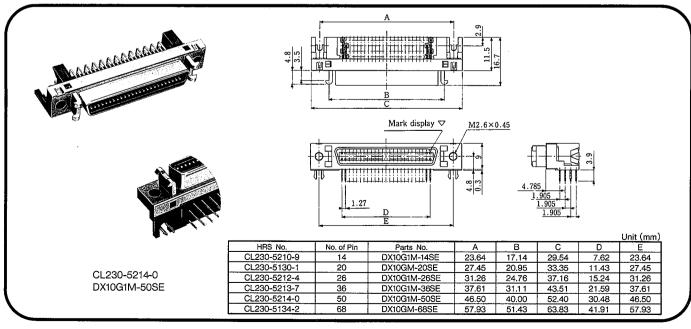
Material Treatment

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

3.1 Board Screw on Type



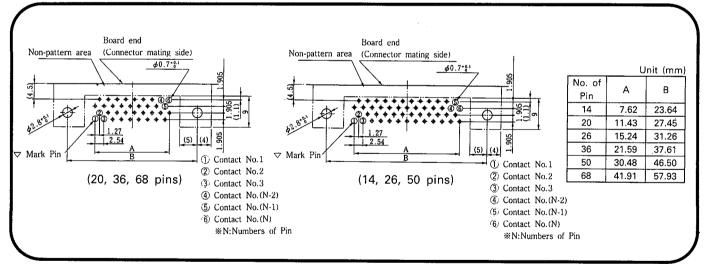
3.2 Board Lock Pin Harpoon Type



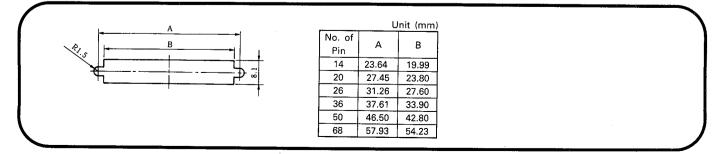
3.3 Board Lock Pin Round Type

ANAMANA MANAMANA A	a		A		16.7			
			✓ Mar ✓ Mar ✓		6×0.45	5 905 1.905 1.905	6.6	
	HRS No.	No. of Pin	Parts No.	A	В	С		nit (mm) F
	HRS No. CL230-5107-0	No. of Pin	Parts No. DX10M-14SF	A 23.64	B	C 29 54	D	E
	CL230-5107-0	14	DX10M-14SE	23.64	17.14	29.54	D 7.62	E 23.64
	CL230-5107-0 CL230-5067-7	14 20	DX10M-14SE DX10M-20SE	23.64 27.45	17.14 20.95	29.54 33.35	D 7.62 11.43	E 23.64 27.45
CL230-5071-4	CL230-5107-0 CL230-5067-7 CL230-5068-0	14 20 26	DX10M-14SE DX10M-20SE DX10M-26SE	23.64 27.45 31.26	17.14 20.95 24.76	29.54 33.35 37.16	D 7.62 11.43 15.24	E 23.64 27.45 31.26
CL230-5071-4 DX10M-68SE	CL230-5107-0 CL230-5067-7	14 20	DX10M-14SE DX10M-20SE	23.64 27.45	17.14 20.95	29.54 33.35	D 7.62 11.43	E 23.64 27.45

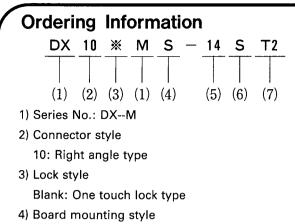
PCB Layout (Recommended board thickness:1.6mm)



Panel-Fitting Dimensional Drawing (Recommended panel thickness:max.2mm)



4. One Touch Lock, Receptacle SMT Type



S: SMT type

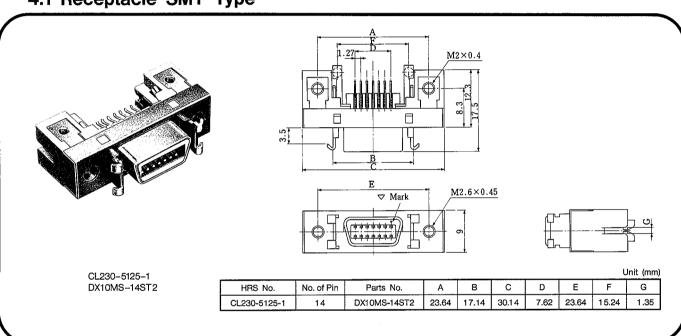
4.1 Receptacle SMT Type

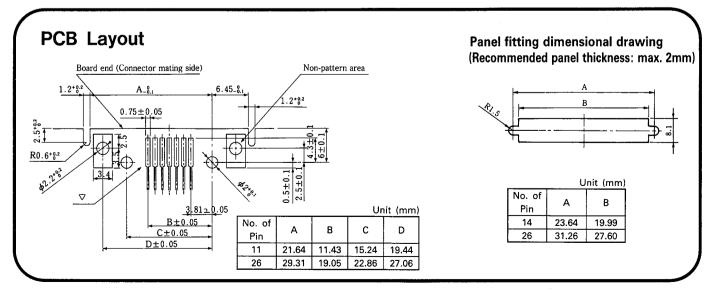


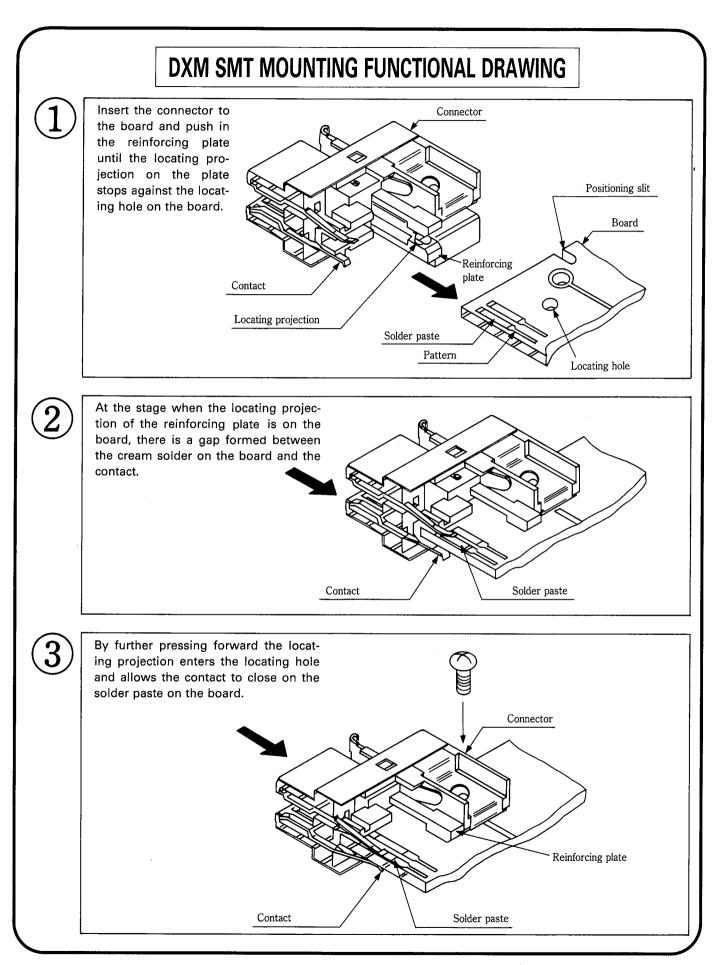
- 6) Mating type
 - S: Receptacle
- 7) Board-thickness
 - T2: SMT type (Board thickness 1.2mm)
 - T6: SMT type (Board thickness 1.6mm)

Material Treatment

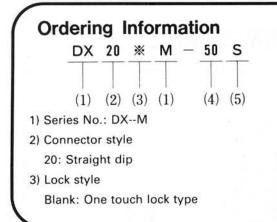
ltern	Material	Remarks
Receptacle case	Steel	Nickel plating
Insulators	PPS	Natural
Female terminal	Copper alloy	Selective gold plating







5. One Touch Lock, Receptacle Straight Type

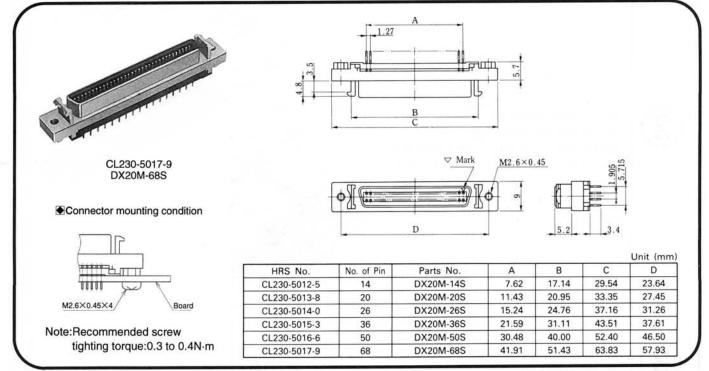


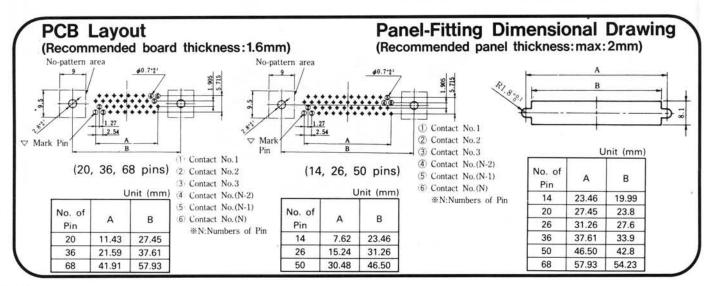
- 4) No. of pins: 14, 20, 26, 36, 50, 68
- 5) Mating type
- S: Receptacle

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

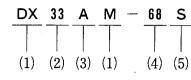
5.1 Receptacle Straight Type





6. One Touch Lock Receptacle Flat Ribbon Cable Type

Ordering Information



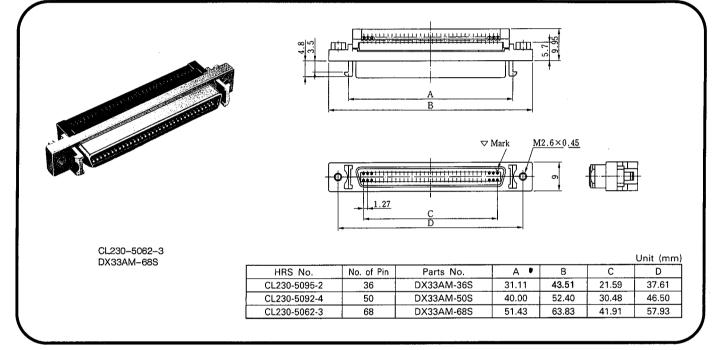
- Series No.: DX--M
 Connector style
 33: Flat IDC type
 (for ribbon cable use)
- 3) Applicable cable
- A: AWG # 28

- 4) No. of pins: 36, 50, 68
- 5) Mating type
 - S: Receptacle

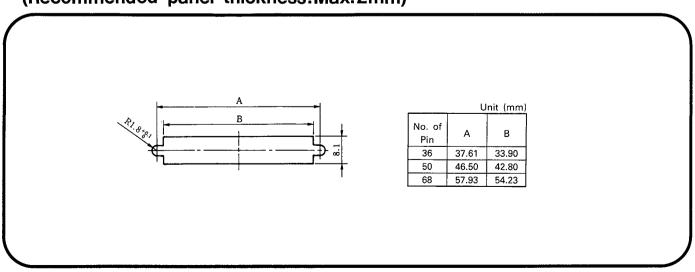
Material Treatment

ltem	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.2mm)



7. Screw Lock Type, Plug Cover

(3)

Ordering Information $\frac{DX30M}{D} = \frac{110}{D} = \frac{CV1}{D}$

(2)

Material Treatment

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

1) Series No.: DX30M

(1)

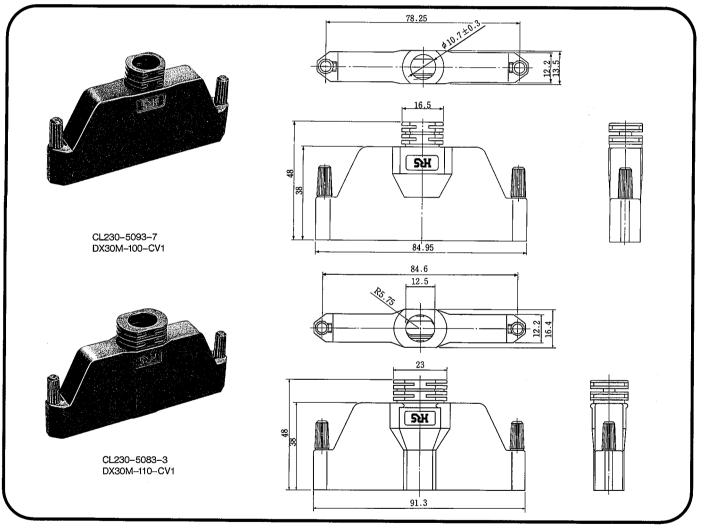
2) No. of pins: 68, 80, 100, 110

3) Cover case type

CV1: Overmold cover case

CV2: Die cast cover

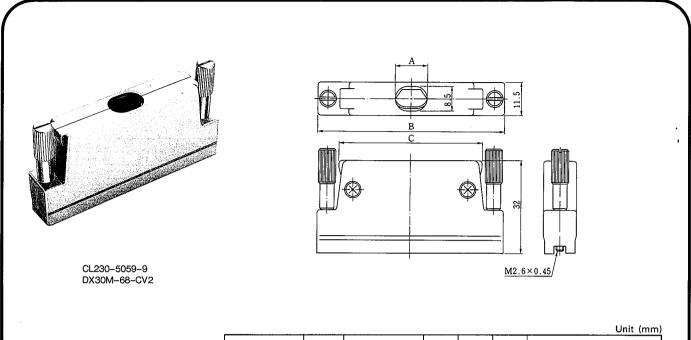
7.1 Overmold Cover



List of Engagement Combinations

Cover case and plug unit	Receptacle			
cover case and plug unit	Right angle type	SMT type	Straight type	Ferrite core type
DX30M-100-CV1+DX30AM-100P	DX10AM-100SE2, DX10AM-100SE1	DX10AMS-100ST6		DX10AMF-100SE1
DX30M-110-CV1+DX30AM-110P	DX10AM-110SE2, DX10AM-110SE1	_		_

7.2 Die Cast Cover



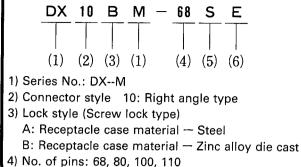
HRS No.	No. of	Parts No.	А	АВ	с	Applicable	plug unit						
1113 140.	pin	Faits NO.									Б	C	IDC type
CL230-5059-9	68	DX30M-68-CV2	11.00	64.93	49.68	DX30AM-68P	—						
CL230-5060-8	80	DX30M-80-CV2	12.50	72.55	57.30	DX30AM-80P	-						
CL230-5061-0	100	DX30M-100-CV2	14.00	85.25	70.00	DX30AM-100P	DX40M-100P						

List of Engagement Combinations

Cover case and plug unit		Receptacle			
Cover case and plug unit	Right angle type	Straight DIP type	Ribbon cable type		
DX30M- 68-CV2+DX30AM- 68P	DX10BM-68S, DX10BM-68SE	DX20BM- 68S	DX33M-68S-LNA		
DX30M- 80-CV2+DX30AM- 80P	DX10BM-80S, DX10BM-80SE	DX20BM- 80S			
DX30M-100-CV2+DX30AM-100P	DX10BM-100S, DX10BM-100SE	DX20BM-100S	_		

8. Screw Lock, Receptacle Right Angle Type

Ordering Information

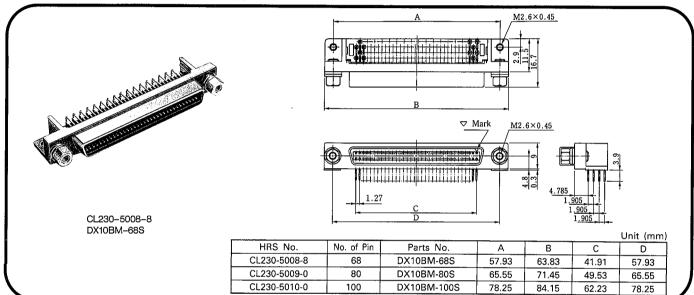


8.1 Board Screw on Type

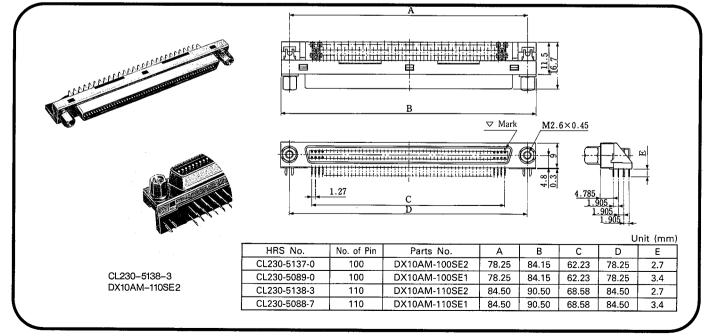
- 5) Mating type S: Receptacle
- 6) Board fitting type
- Blank : Screw on type
- E : Lock pin round type
- E1 : Lock pin harpoon type (Board thickness 1.6mm)
- E2 : Lock pin harpoon type (Board thickness 1.2mm)

Material Treatment

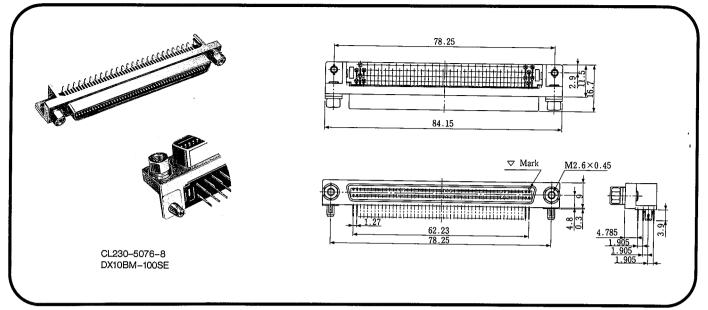
item	Material	Remarks
Receptacle case	Zinc alloy die cast or steel	Nickel plating
Shell	Steel	Nickel plating
Insulator	PBT resin	Black (UL94V-0)
Female terminal	Copper alloy	Selective gold plating



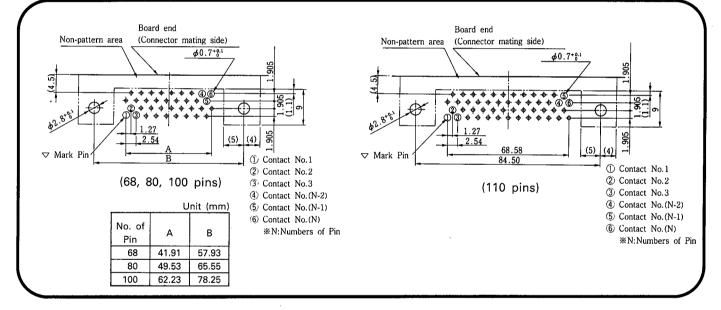
8.2 Board Lock Pin Harpoon Type



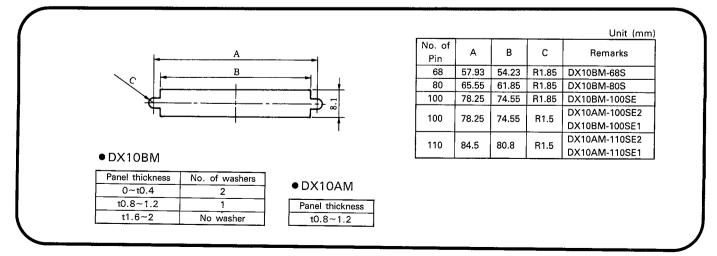
8.3 Board Lock Pin, Round Type



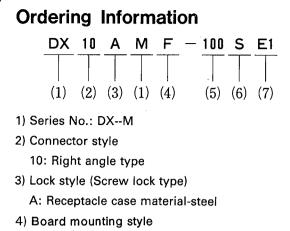
PCB Layout (Recommended Board Thickness:1.2mm,1.6mm)



Panel-Fitting Dimensional Drawing



9. Screw Lock, Receptacle Ferrite Core Type



F: Ferrite core type

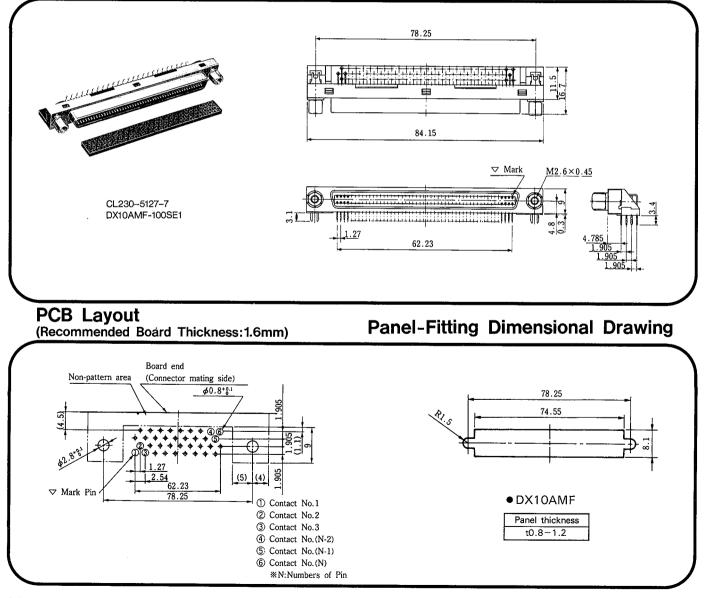
5) No. of pins: 100

- 6) Mating type
- S: Receptacle
- 7) Board fitting type
 - E1: Lock pin type (Board thickness 1.6mm)

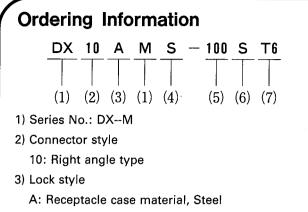
Material Treatment

ltem	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



10. Screw Lock Receptacle SMT Type



- 4) Board mounting style
 - S: SMT type

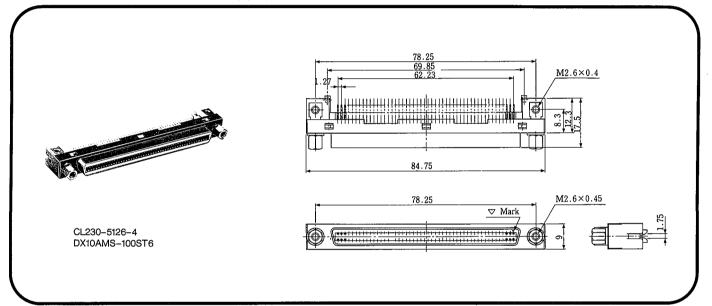
- 5) No. of pins: 100
- 6) Mating type S: Receptacle
- 7) Board-thickness

T6: Board thickness 1.6mm

Material Treatment

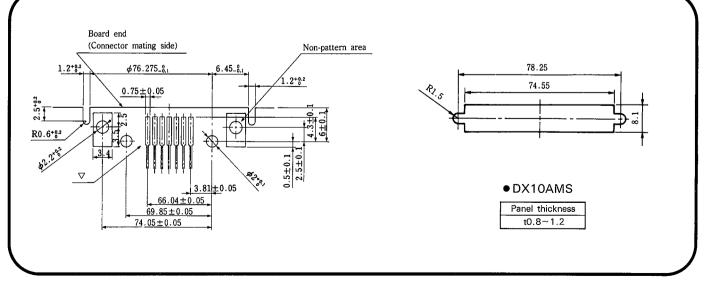
ltem	Material	Remarks
Receptacle case	Steel	Nickel plating
Insulator	PPS	Natural
Female terminal	Copper alloy	Selective gold plating

10.1 Receptacle SMT Type

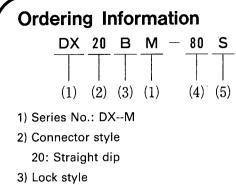


PCB Layout

Panel-Fitting Dimensional Drawing



11. Screw Lock Receptacle Straight Type



B: Screw lock type

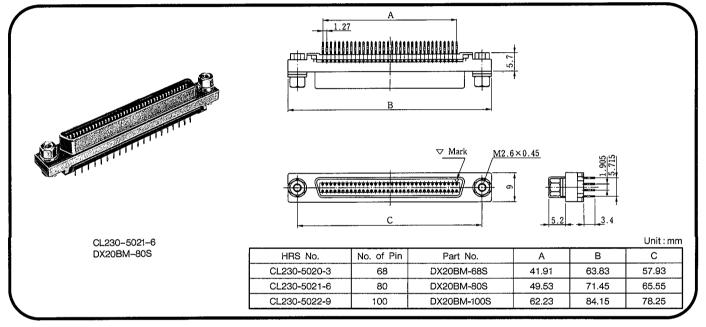
4) No. of pins: 68, 80, 100

- 5) Mating type
- S: Receptacle

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

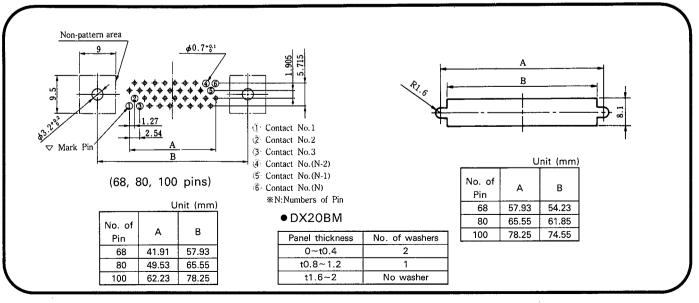
11.1 Receptacle Straight Type



PCB Layout

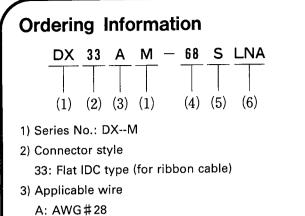
(Recommended Board Thickness:1.6mm)

Panel-Fitting Dimensional Drawing



240

12. Screw Lock Receptacle, Flat Ribbon Cable Type



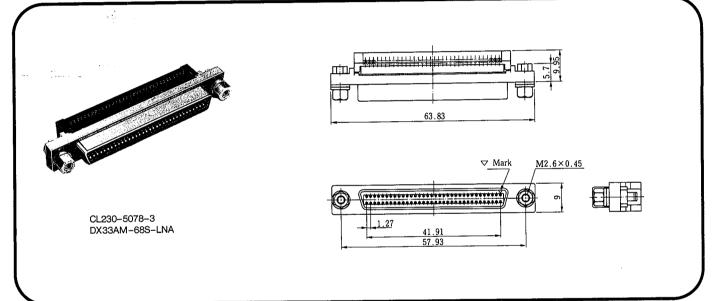
4) No. of pins: 68

- 5) Mating type
 - S: Receptacle
- 6) Board fitting type LNA: Screw lock type

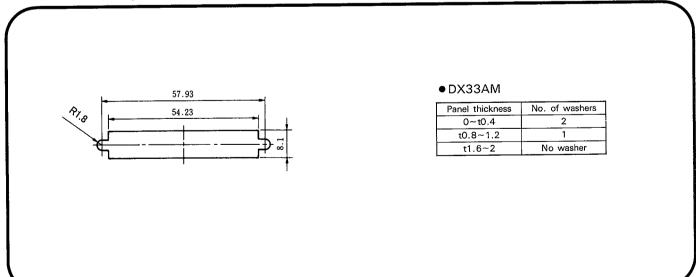
Material Treatment

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

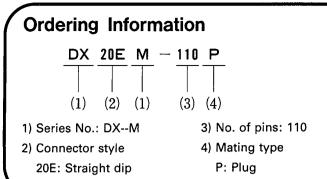
12.1 Receptacle, Flat Ribbon Cable Type



Panel-Fitting Dimensional Drawing



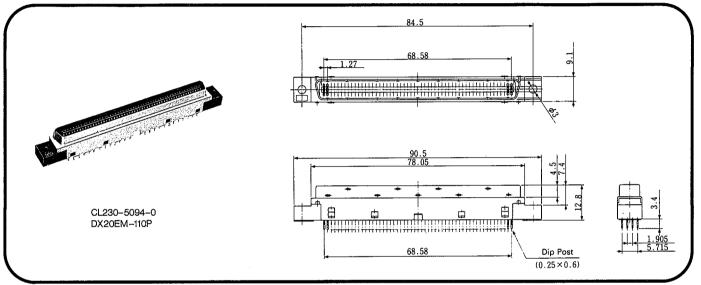
13. Plug Straight Type

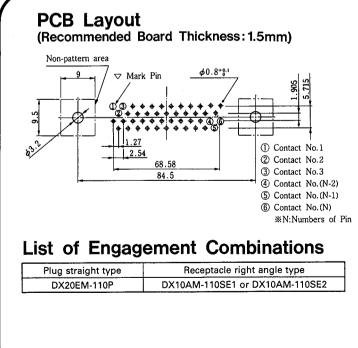


Material Treatment

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





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

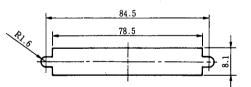
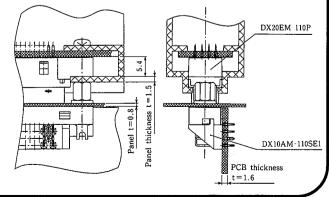
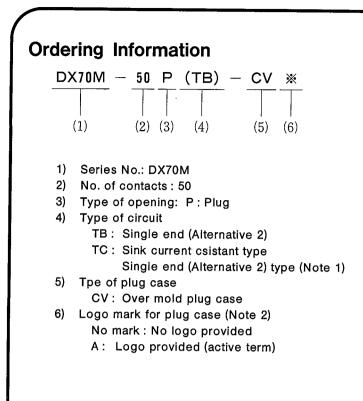


Diagram of Mounting Conditions for DX20EM

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



14. SCSI-compatible Terminator



Material/Finish

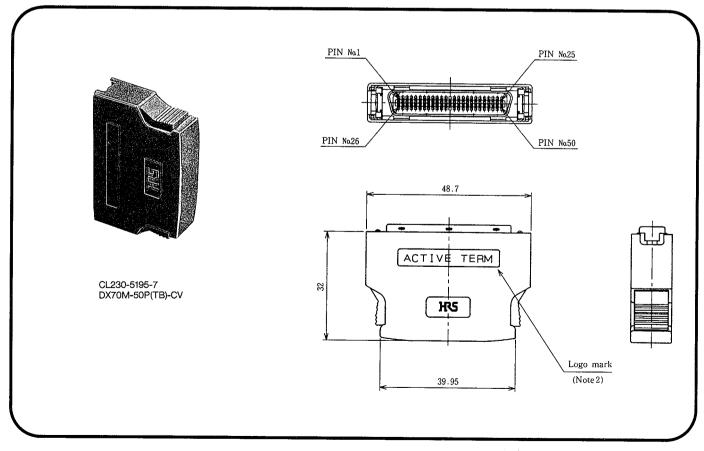
ltem	Material	Remarks	
Shell Steel Nickel plated		Nickel plated	_
Male contact	Copper alloy	Part golg plated	•
Insulation	Synthetic	Plug case, button: Light beige	•
	resin	Plug unit: Black (UL94V-0)	

Characteristics

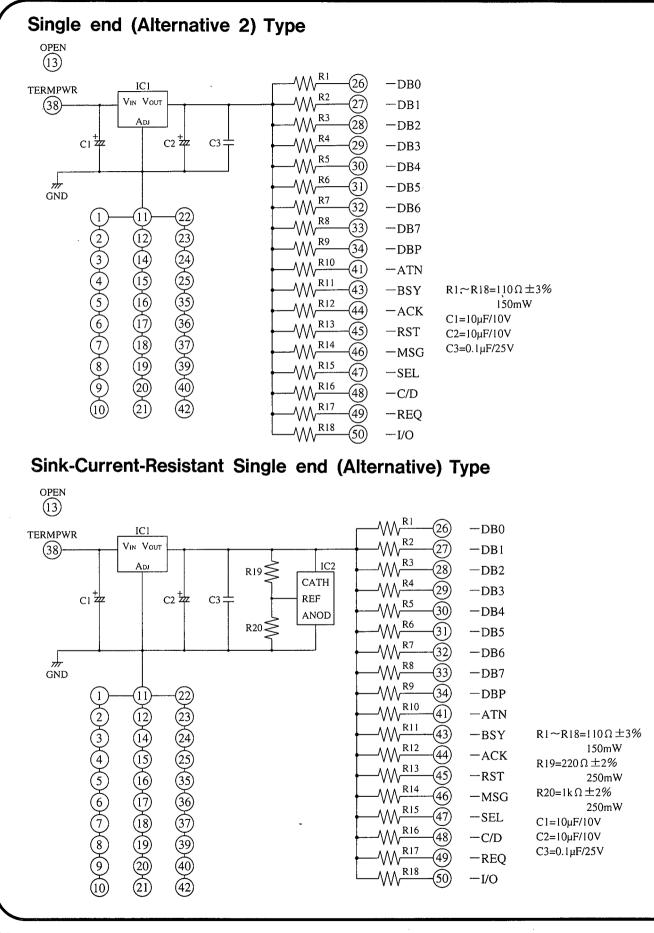
Item	Characteristics
Operating voltage	DC 4.25-5.25 V
Operating temperature range	0℃~+50℃

Note 1: Resistant to a sink current of up to 150 mA

14.1 Terminator



Circuit Diagram

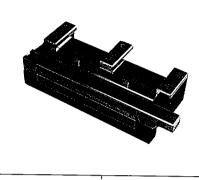


Connecting Method (Discrete Cable IDC Type)

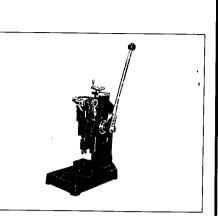
Connecting Tools



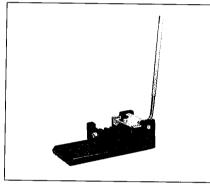
Cable distribution jig

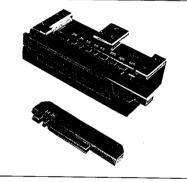


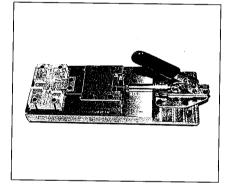
Cable shearing unit



Shield case fixing jig







IDC press

IDC guide plate unit

Hood insertion jig

List of Connecting Jigs and Accessories Plug Connector

					Process			
Cable	Connector Name	0.11	Remaining part cutting		Crimping		Shield case	
		Distribution	Press	Unit	Press	Remaining Part cutting	fixing	Hood insertion
	DX30AM-14P						Order attachments separately #1	Order attachments separately #2
	DX30AM-20P	By hand					deparately x1	separately #2
	DX30AM-26P	DX30AM-CAT1						
I/O Cable	DX30AM-36P	CL902-2090-0 Semi-Auto machinc SA200/DX30AM CL903-0002-9					DX30AM-CCT1	DX30AM-HPT1
(Discrete	DX30AM-50P		DX30AM-HP1 CL902-0210-0	DX30AM-CU1 CL902-0211-2	DX30AM-HP1 CL902-0210-0	DX30AM-GPT1 CL902-0214-0	CL902-0213-8	CL902-0216-6
wire)	DX30AM-68P							
	DX30AM-80P	Automatic machine AM200/DX30						
	DX30AM-100P	CL903-0030-4						Order attachments separately #3
	DX30AM-110P							Order attachments separately #4
	61) CL902-0213-8(61) 52) CL902-0213-8(62)		HPT1-14 CL902-021 HPT1-100 CL902-021		AM-HPT1-110 CL902	2-0219-4		

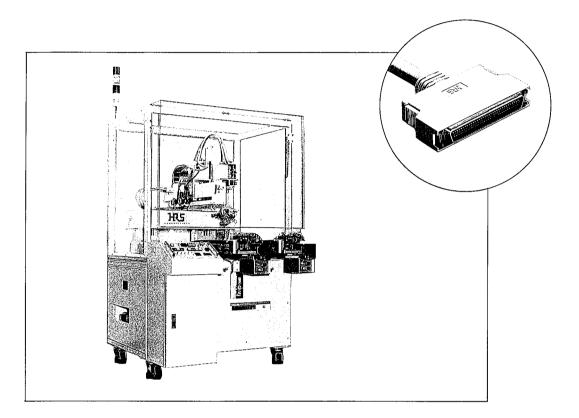
Receptacle Connector

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

FOR DX. DXM SERIES AUTOMATIC DISCRETE CABLE COMBING MACHINE

General

This Automatic Combing Machine arranges and streamlines the conductor cables of a multiconductor round I/O cable when terminating it to a connector.



Features

- (1) Cable number identification is provided.
- (2) High speed and highly accurate conductor cable handling mechanism.
- (3) Twin stage design provides highly efficient combing operation.
- (4) Pushbutton operation offers very simple operating procedure.
- (5) Lightweight, quiet operation, and clean working environment.

Principal Specifications

	1.	Power supply	200VAC	1
	2.	Pneumatic supply pressure	5kgf/cm ²	
	3.	Dimensions and weight of the main unit	1,100mm W $ imes$ 1,150mm D $ imes$ 1,720mm H	
			(not including circular indicating lamp)	
			Weight 400kg	
	4.	Cables to be used	AWG #28 (0.58mm ¢)	Γ
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