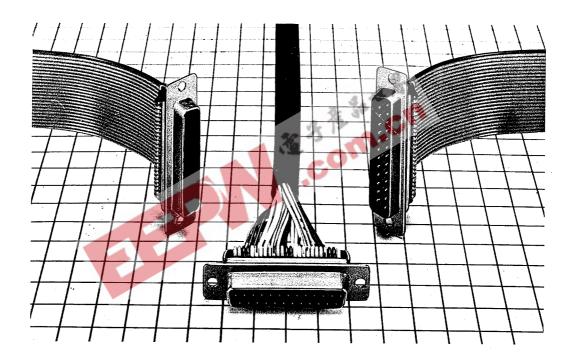
# RIBBON-CABLE LOW-PROFILE FD CONNECTORS

#### General

The low-profille FD series are rectangular multi-contact connectors for ribbon-cable IDC termination. The FD Series are most useful for labor-saving in connection work and enhancing wiring reliability.

The profile has been minimized to meet the customer needs for smaller devices. 9, 15, 25 and 37-contact models are available.



#### **Features**

- (1) Compact and sturdy due to metal shell.
- (2) Can be mounted on the front or back of a panel or chasis as necessary.
- (3) Much lower Profile to permit miniaturization.
- (4) Fixes the cable securely by fitting the ribbon cable clamp with a metal plate in the connector.
- (5) Cables, including standard pitch (1.27mm) ribbon cables, as well as those with 1.38mm pitch (equal to the D sub), can be connected by replacing the jig (a jig is required for slit cables).
- (6) Discrete cables can be connected by using a multi-core cable IDC terminator.

## **Applications**

Computers, peripherals and terminals, radio equipment, and control equipment.

### **Electrical and Environmental**

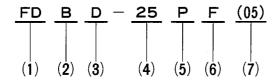
Electrical and Environmental Characteristics		
Current rating	1A	
Voltage rating	AC200V	
Insulation resistance	1000M Ω or higher at DC 500V	
Contact resistance	25m Ω or less at DC100mA	
Withstand voltage	AC650Vr.m.s. for a minute	

Material and Finish				
Shell Steel		Bichromium Acid Treatment over Zinc plating		
insulator	PBT resin *	Black		
Contacts	Beryllium Copper			

**%UL94V-0** 

Cable specifications

### Ordering Information



- 1.38 or 1.27(N·1)

  1.38 or 1.27

  1.38 or 1.27 × N

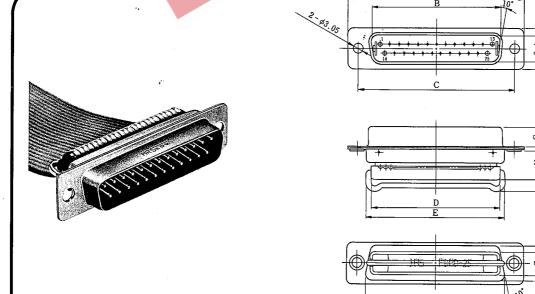
  N:No. of cores
  - Core: AWG # 28(7/0.127)

- (1) Series Name FD: Insulation displacement termination
- (2) Shell size E, A, B, C
- (3) Serial sign for series

- (4) No.of pin 9, 15, 25, 37
- (5) Type of contacts
  - P: Male contact
    - S: Female contact
- (6) F: Shell dimpled (male connector only)
- (7) (05) Nickel-plated shell

No sign: Treated with dichromate over zinc-plating (only FD\*D-\* PF shell are solder-plated)

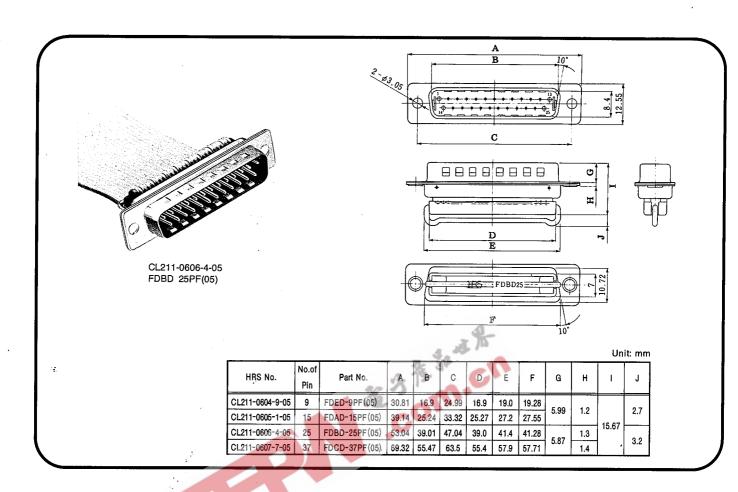
### Pin Connector



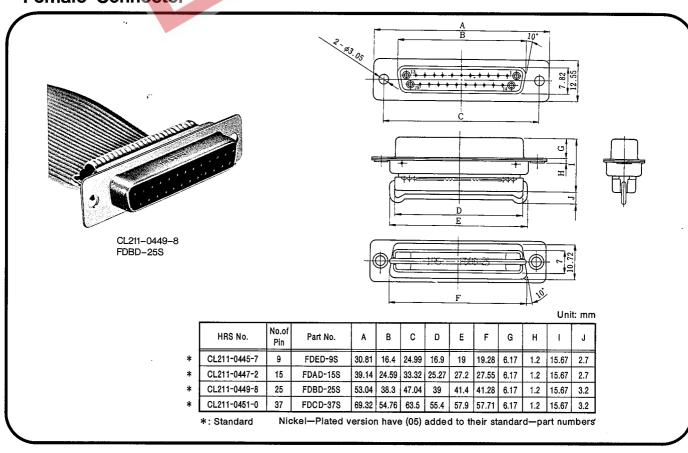
CL211-0448-5 FDBD-25P

Unit: mm No.o HRS No. Part No. С FDED-9P 30.81 16.9 24.99 16.9 CL211-0444-4 19 19.28 5.99 15.67 2.7 1.2 CL211-0446-0 15 FDAD-15P 39.14 25.24 33.32 25.27 27.2 27.55 5.99 15.67 2.7 CL211-0448-5 25 FDBD-25P 53.04 39.01 47.04 39 41.4 41.28 5.87 15.67 3.2 1.3 CL211-0450-7 37 FDCD-37P 69.32 55.47 63.5 55.4 57.9 57.71 5.87 1.4 15.67 3.2

\*: Standard. Nickel-plated shells have (05) added to the part numbers.

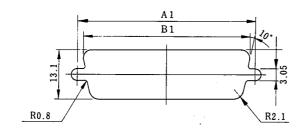


### **Female Connector**



## **Connector Mounting Method and Mounting Dimensions**

### Connector mounted on the face of the panel (front mounting)

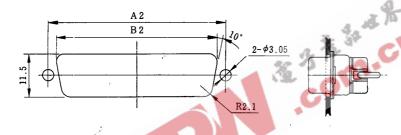


Note: A slight gap will appear between connector and panel since the connector must be plugged to the back of the panel.



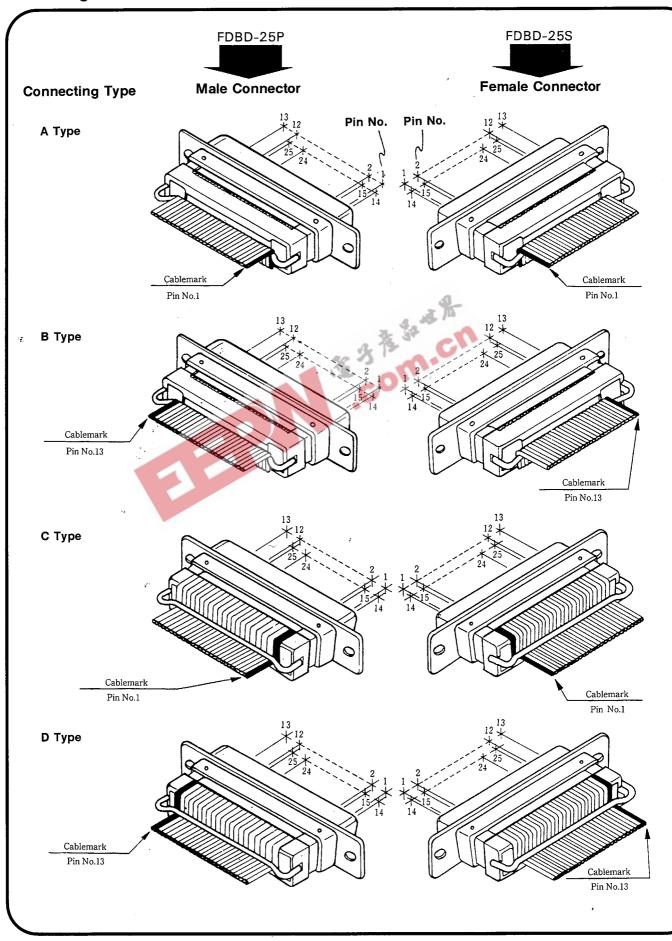
		Unit: mm
Shell size	A1	B1
E	24.99	22
Α	33.32	30.3
В	47.04	44
С	63.5	60.5

### Connector mounted on the back of the panel (rear mounting)



		Unit : mm
Shell size	A2	B2
E	24.99	20.2
Α	33.32	28.6
В	47.04	42.5
С	63.5	59.2

## **Cabling Variations**



## Termination tools list for FD%D series

# 1) For terminating the FD%D series, select tools from the list below according to the cable used.

		ocess before connection ing the Flat Ribbon Cable) Insulation Dis		n Displacement Connection		Process after
Cable	Press	Jig	Press	Guide Plate	Pressure Block	connection
1,38mm pitch I/O Cable (Flat arrangement at each end side) Flat Ribbon Cable	_	_		FDXD-1.38GP (Universal type) CL902-0021-3	Pressure Block	_
1.27mm pitch Slit Flat Ribbon Cable Descrete Wires	_	·	HIF Connecting Press (universal type) CL550-0082-2	*1 (see note) FDXD-1.27GP (Universal type) (For Discrete Wire or Slit Flat Ribbon Cable) CL902-0025-8	(Please refer to below table)	FDXD—C (Universal type) (Cable Shear for
1.27mm pitch Flat Ribbon Cable	HIF Connecting Press CL550-0082-2	FDXD—ST Slitting Jig (Universal type) CL902-0028-6		*2 (see note) FDXD-1.27GPF (Universal type) (For Flat Ribbon Cable) CL902-0026-0		trimming Cable ends.) CL902-0029-9

### 2) Pressure Block

Application connector	Part No.	HRS No.
FDED-9P	FDE-P	CL902-0006-3
FDED-9S	FDE-S	CL902-0007-6
FDED-15P	FDA-P	CL902-0009-1
FDED-15S	FDA-P	CL902-0010-0
FDED-25P	FDB-P	CL902-0003-5
FDED-25S	FDB-S	CL902-0004-8
FDED-37P	FDC-P	CL902-0012-6
FDED-37S	FDC-S	CL902-0013-9

# Note) By changing Wire-Guide-Plate, this Guide Plate can be used for both \*1 and \*2.

Cable	Cable Part No.		
Discrete Wire	FDXD-1.27 Discrete Wire Guide Plate	CL902-0041-4	
Flat Cable	FDXD-1.27 Flat Cable Flat Cable Gulde Plate		