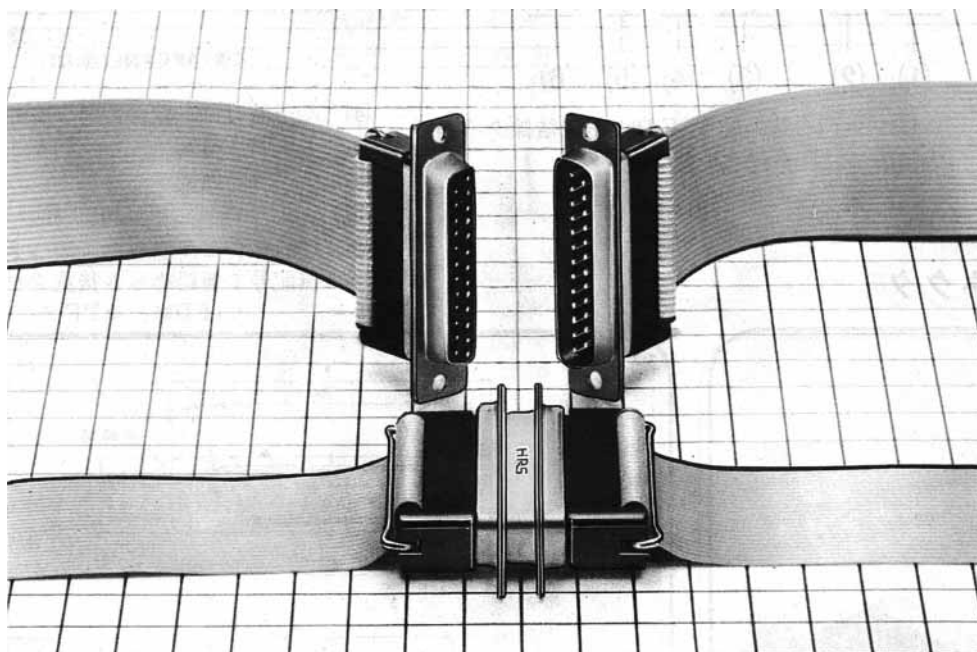


FD TYPE CONNECTOR FOR RIBBON CABLE (1.27-millimeter pitch for standard ribbon cable)

General

The FD Series connectors are designed for ribbon cable IDC termination. Connecting wires are grouped, so the FD Series are useful for labor-saving in connection work and enhancing wiring reliability. Being compatible with 1.27-mm (standard) ribbon

cables, the FD Series are general-purpose, high-performance connectors that are capable of being interacting with connectors for other types of ribbon cables. 9, 15, 25 and 37-contact models available.



Features

- (1) Compact and sturdy due to metal shell.
- (2) Can be mounted on the front or back of a panel or chassis as necessary.
- (3) Fixes the cable securely by fixing the ribbon cable clamp with a metal plate in the connector.
- (4) Can be easily connected to a standard ribbon cable, having a cable IDC pitch of 1.27mm (standard).
- (5) Easy to connect cables by following the same IDC termination and connecting procedures as those for our other ribbon cable connectors.

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

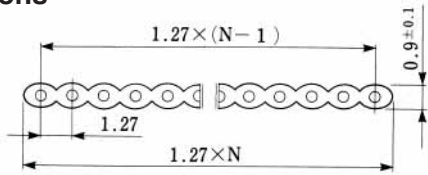
<https://hirose.nt-rt.ru/> || hes@nt-rt.ru

Electrical and Environmental

Electrical and Environmental Characteristics	
Current rating	1A
Voltage rating	200V AC
Insulation resistance	1,000M Ω min. at 500V DC
Contact resistance	25m Ω max. at 100mA DC
Withstand voltage	650Vr.m.s. AC for 1 minute

Material and Finish		
Shell	Steel	Nickel plating
Insulator	PBT (GE Valox)	Black
Contacts	Copper alloy	Nickel-plating + Gold plating

Cable specifications



Ordering Informations

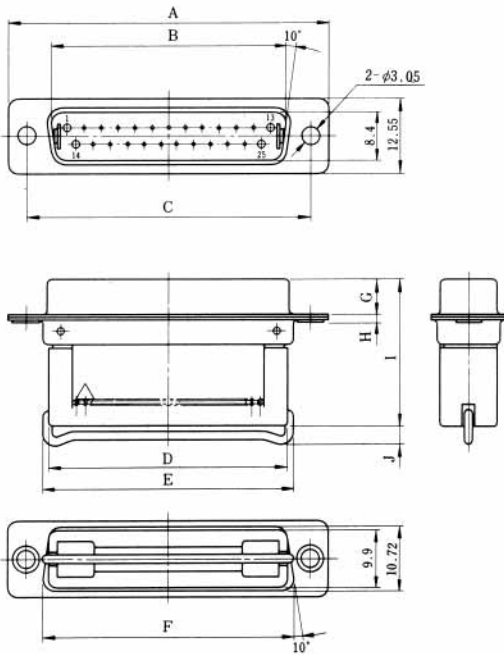
F	D	B	—	25	P	F	(05)
(1)	(2)	(3)	(4)	(5)	(6)		

- (1) Series Name FD: Insulation displacement termination
- (2) Shell Size E.A.B.C.
- (3) No. of Pin 9, 15, 25, 37
- (4) Type of contacts
P: Male contact
S: Female contact
- (5) Shell dimpled (male connector only)
- (6) Specification contents (05) : Nickel-plated shell

D Subminiature IDC Male



FDB-25P (05)



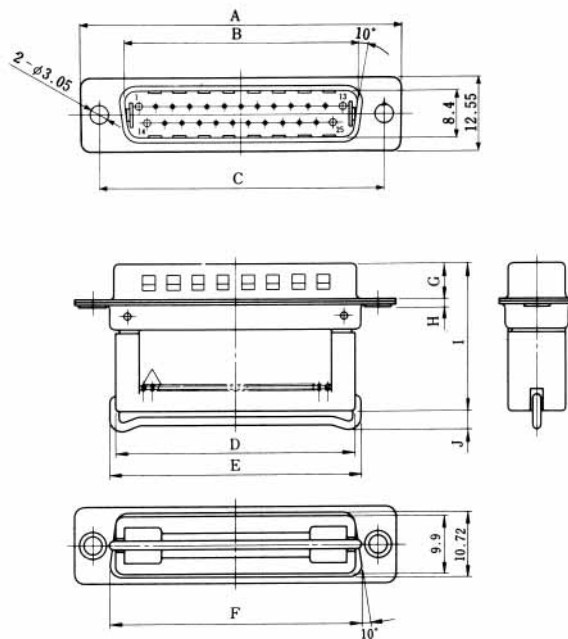
Unit: mm

HRS No	No. of pin	Part No.	A	B	C	D	E	F	G	H	I	J	RoHS
CL211-0143-8-05	9	FDE-9P (05)	30.81	16.9	24.99	17.6	19	19.28	5.99	1.2	24.39	2.7	YES
CL211-0145-3-05	15	FDA-15P (05)	39.14	25.24	33.32	25.8	27.2	27.55	5.99	1.2	24.39	2.7	
CL211-0135-0-05	25	FDB-25P (05)	53.04	39.01	47.04	39.6	41.4	41.28	5.87	1.3	24.37	3.2	
CL211-0147-9-05	37	FDC-37P (05)	69.32	55.47	63.5	56.14	57.9	57.71	5.87	1.4	24.47	3.2	

D Subminiature IDC, Male with Grounding Dimples

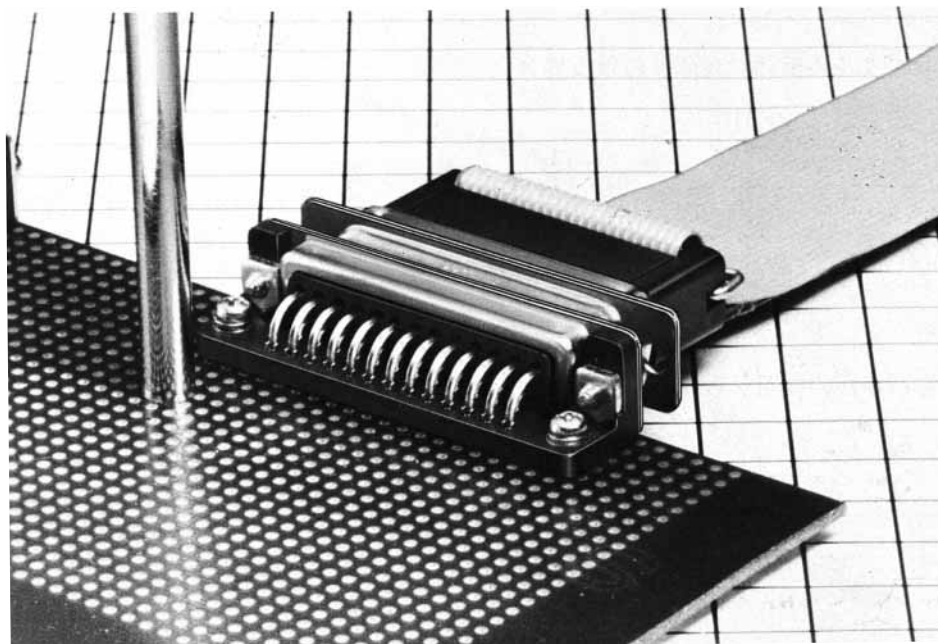


FDB-25PF (05)



Unit: mm

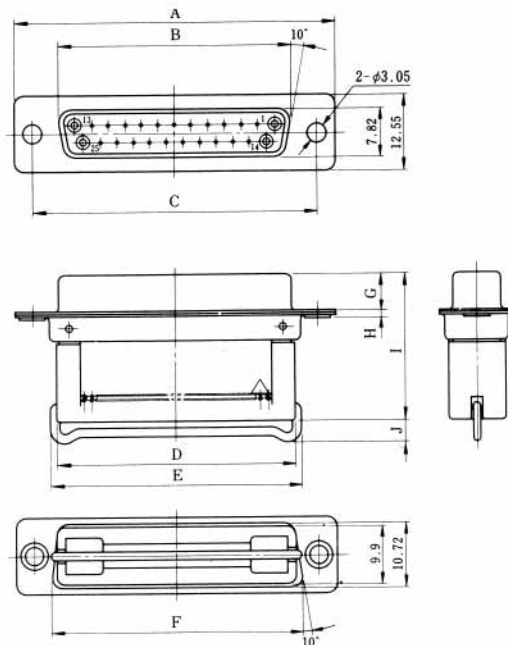
HRS No.	No. of pin	Part No.	A	B	C	D	E	F	G	H	I	J	RoHS
CL211-0721-2-05	9	FDE-9PF (05)	30.81	16.9	24.99	17.6	19	19.28	5.99	1.2	24.39	2.7	YES
CL211-0722-5-05	15	FDA-15PF (05)	39.14	25.24	33.32	25.8	27.2	27.55	5.99	1.2	24.39	2.7	
CL211-0723-8-05	25	FDB-25PF (05)	53.04	39.01	47.04	39.6	41.4	41.28	5.87	1.3	24.37	3.2	
CL211-0724-0-05	37	FDC-37PF (05)	69.32	55.47	63.5	56.14	57.9	57.71	5.87	1.4	24.47	3.2	



D Subminiature IDC, Male with Grounding Dimples



FDB-25S (05)

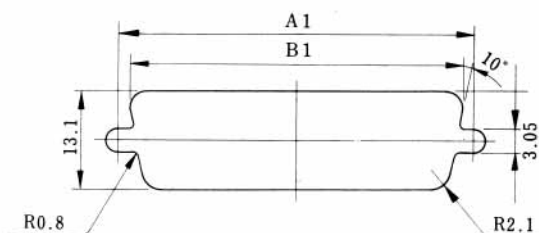


Unit: mm

HRS No	No. of pin	Part No.	A	B	C	D	E	F	G	H	I	J	RoHS
CL211-0144-0-05	9	FDE-9S (05)	30.81	16.4	24.99	17.6	19	19.28	6.17	1.2	24.37	2.7	YES
CL211-0146-6-05	15	FDA-15S (05)	39.14	24.59	33.32	25.8	27.2	27.55	6.17	1.2	24.37	2.7	
CL211-0136-2-05	25	FDB-25S (05)	53.04	38.3	47.04	39.6	41.4	41.28	6.17	1.2	24.37	3.2	
CL211-0148-1-05	37	FDC-37S (05)	69.32	54.76	63.5	56.14	57.9	57.71	6.17	1.2	24.37	3.2	

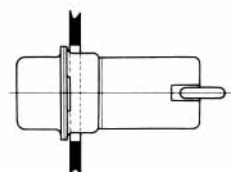
Connector Mounting Method and Mounting Dimensions

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

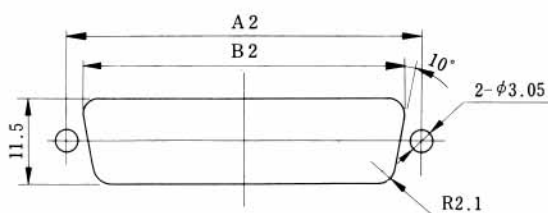


Unit: mm

Shell size	A1	B1
E	24.99	22
A	33.32	30.3
B	47.04	44
C	63.5	60.5

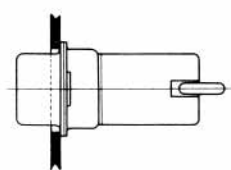


► Connector mounted on the back of the panel (rear mounting)

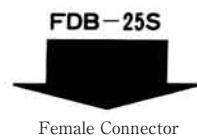
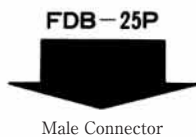


Unit: mm

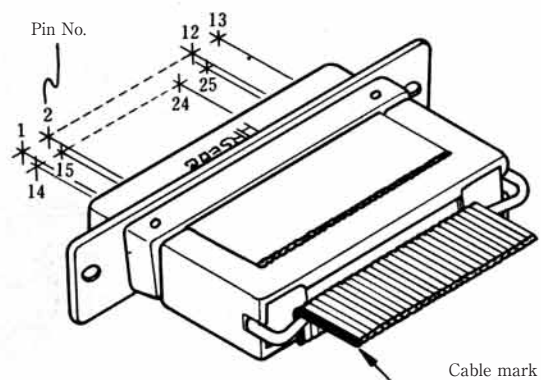
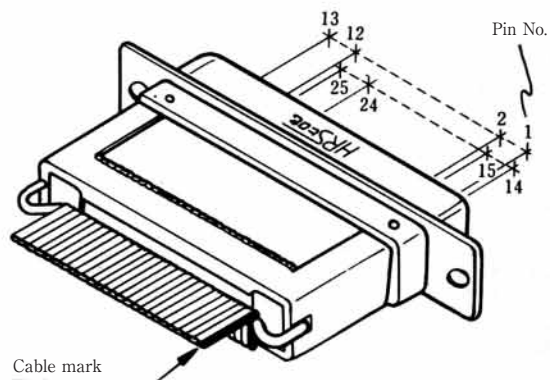
Shell size	A2	B2
E	24.99	20.2
A	33.32	28.6
B	47.04	42.5
C	63.5	59.2



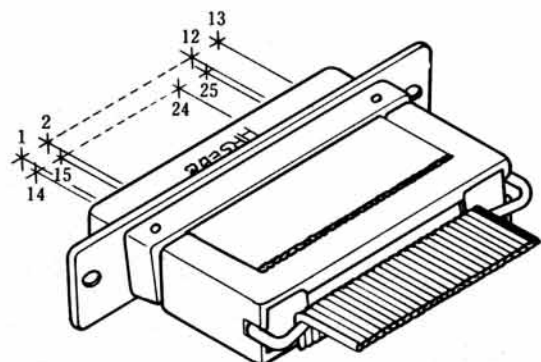
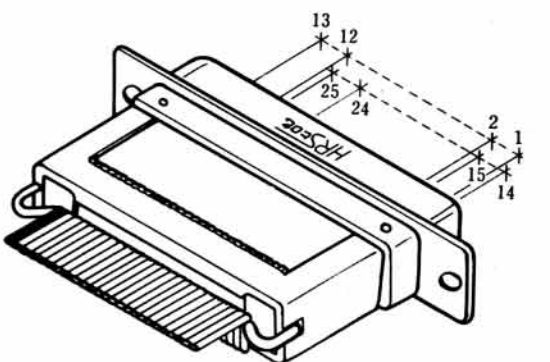
▶ Connecting Type



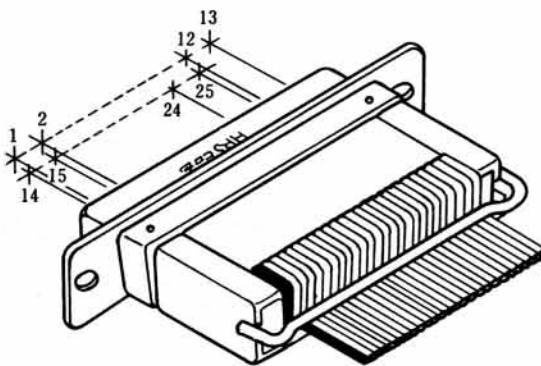
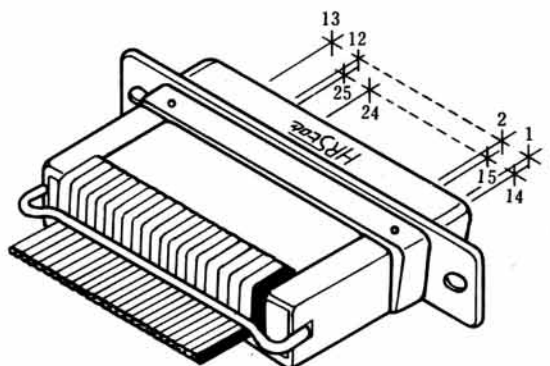
A Type



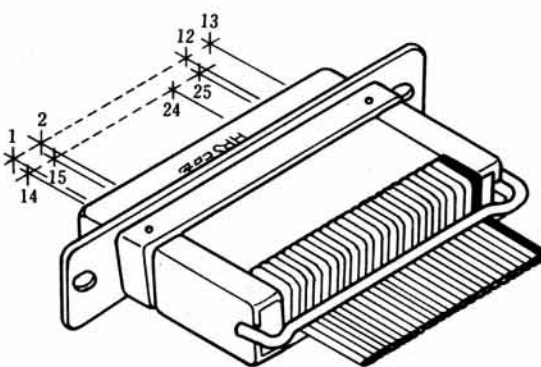
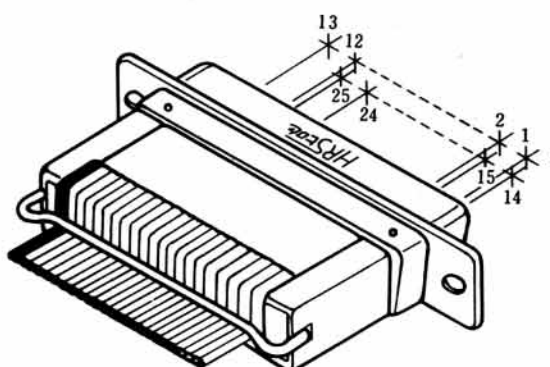
B Type



C Type



D Type

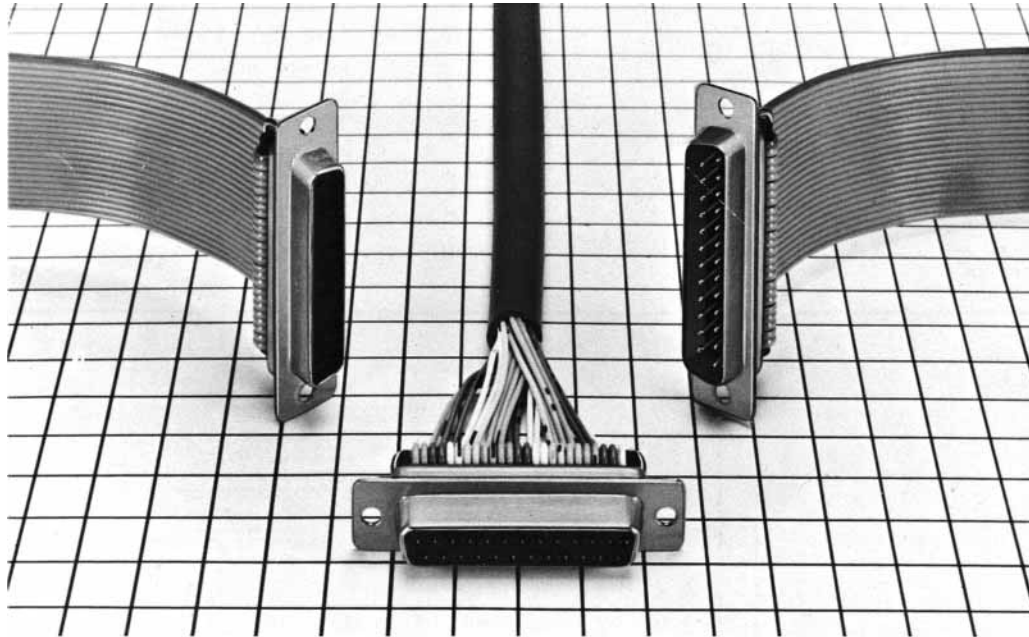


RIBBON-CABLE LOW-PROFILE FD CONNECTORS

General

The low-profile 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 chassis 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.

Application

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

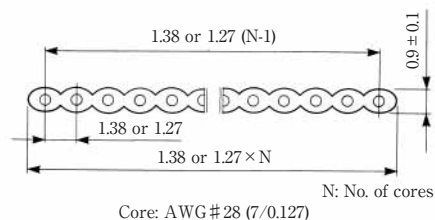
Electrical and Environmental

Electrical and Environmental Characteristics	
Current rating	1A
Voltage rating	200V AC
Insulation resistance	1,000M Ω min. at 500V DC
Contact resistance	25m Ω max. at 100mA DC
Withstand voltage	650Vr.m.s. AC for one minute

Material and Finish		
Shell	Steel	Nickel plating
Insulator	PBT	Black
Contacts	Beryllium Copper	Nickel plating + gold plating

※UL94V-0

Cable specifications



Ordering Informations

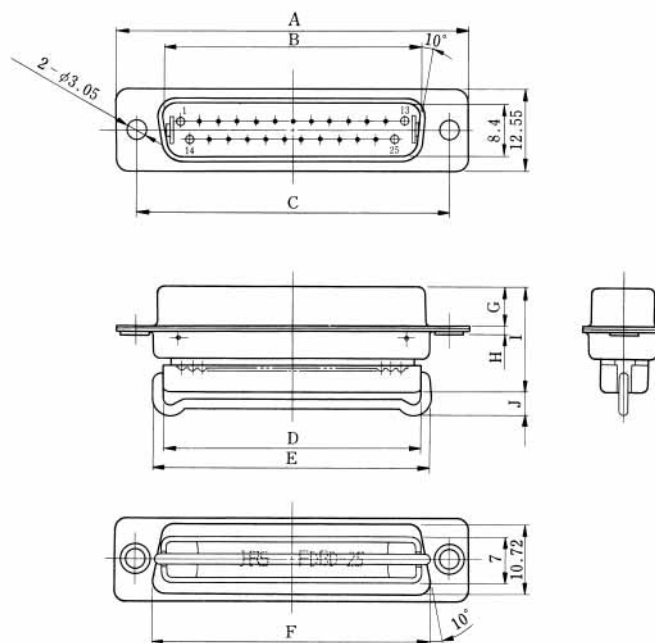
F	D	B	D	—	25	P	F	(55)
(1)	(2)	(3)			(4)	(5)	(6)	(7)

- (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) (55) Nickel-plated shell

Pin Connector



FDBD-25P (55)

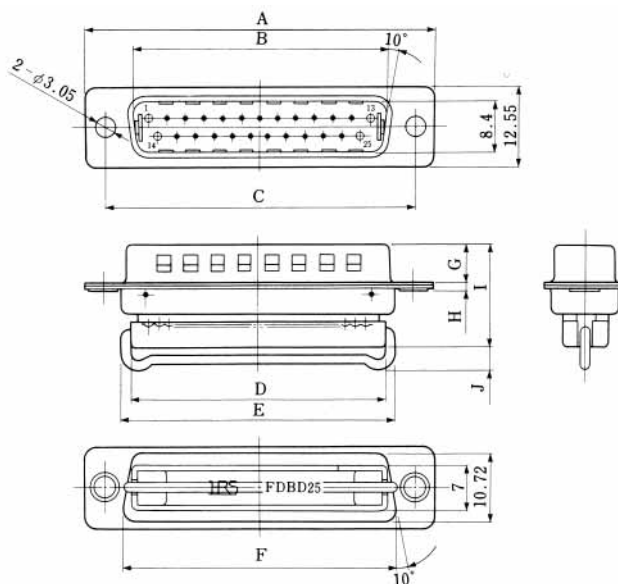


HRS No	No. of pin	Part No.	A	B	C	D	E	F	G	H	I	J	RoHS
CL211-0444-4-55	9	FDAD-9P (55)	30.81	16.9	24.99	16.9	19	19.28	5.99	1.2	15.67	2.7	YES
CL211-0446-0-55	15	FDAD-15P (55)	39.14	25.24	33.32	25.27	27.2	27.55	5.99	1.2	15.67	2.7	
CL211-0448-5-55	25	FDBD-25P (55)	53.04	39.01	47.04	39	41.4	41.28	5.87	1.3	15.67	3.2	
CL211-0450-7-55	37	FDCD-37P (55)	69.32	55.47	63.5	55.4	57.9	57.71	5.87	1.4	15.67	3.2	

Unit: mm



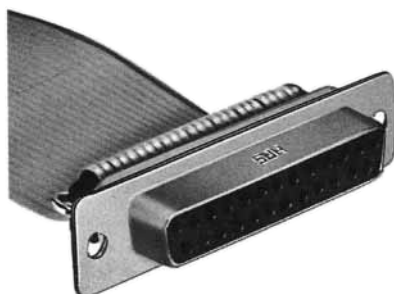
FDBD-25PF (55)



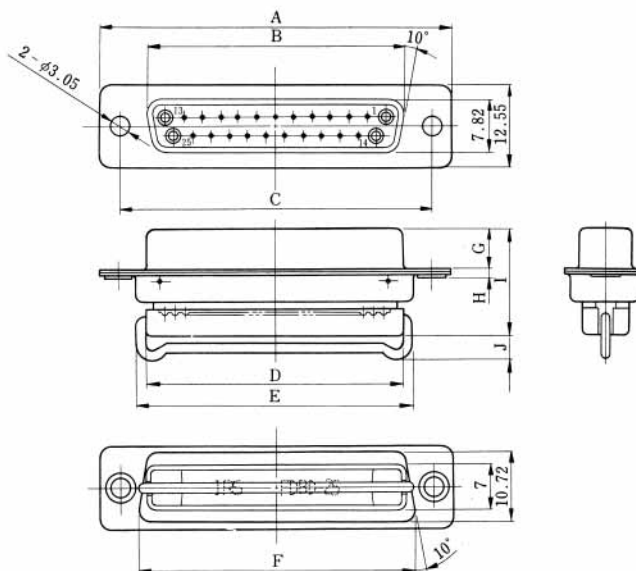
Unit: mm

HRS No	No of pin	Part No.	A	B	C	D	E	F	G	H	I	J	RoHS
CL211-0604-9-55	9	FDED-9PF (55)	30.81	16.9	24.99	16.9	19.0	19.28	5.99	1.2	15.67	2.7	YES
CL211-0605-1-55	15	FDAD-15PF (55)	39.14	25.24	33.32	25.27	27.2	27.55					
CL211-0606-4-55	25	FDBD-25PF (55)	53.04	39.01	47.04	39.0	41.4	41.28	5.87	1.3		3.2	
CL211-0607-7-55	37	FDCE-37PF (55)	69.32	55.47	63.5	55.4	57.9	57.71		1.4			

Female Connector



FDBD-25S (55)



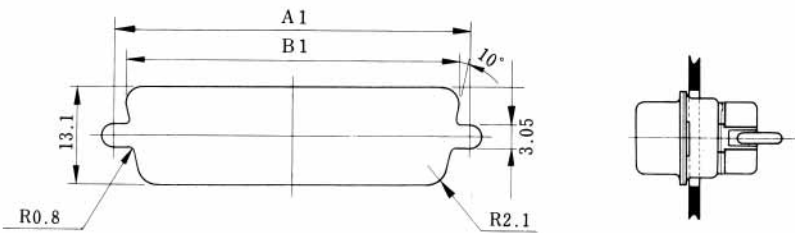
Unit: mm

HRS No	No of pin	Part No.	A	B	C	D	E	F	G	H	I	J	RoHS
CL211-0445-7-55	9	FDED-9S (55)	30.81	16.4	24.99	16.9	19	19.28	6.17	1.2	15.67	2.7	YES
CL211-0447-2-55	15	FDAD-15S (55)	39.14	24.59	33.32	25.27	27.2	27.55	6.17	1.2	15.67	2.7	
CL211-0449-8-55	25	FDBD-25S (55)	53.04	38.3	47.04	39	41.4	41.28	6.17	1.2	15.67	3.2	
CL211-0451-0-55	37	FDCE-37S (55)	69.32	54.76	63.5	55.4	57.9	57.71	6.17	1.2	15.67	3.2	

Connector Mounting Method and Mounting Dimensions

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

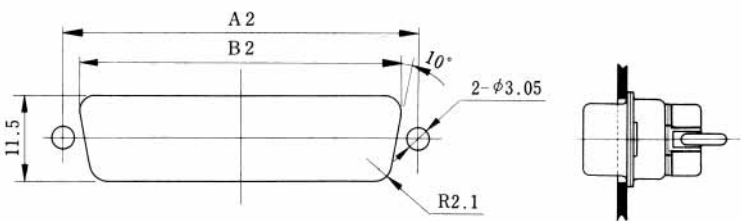
Note: A slight gap will appear between connector and panel since the connector must be plugged to the back of the panel.



Unit: mm

Shell size	A1	B1
E	24.99	22
A	33.32	30.3
B	47.04	44
C	63.5	60.5

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

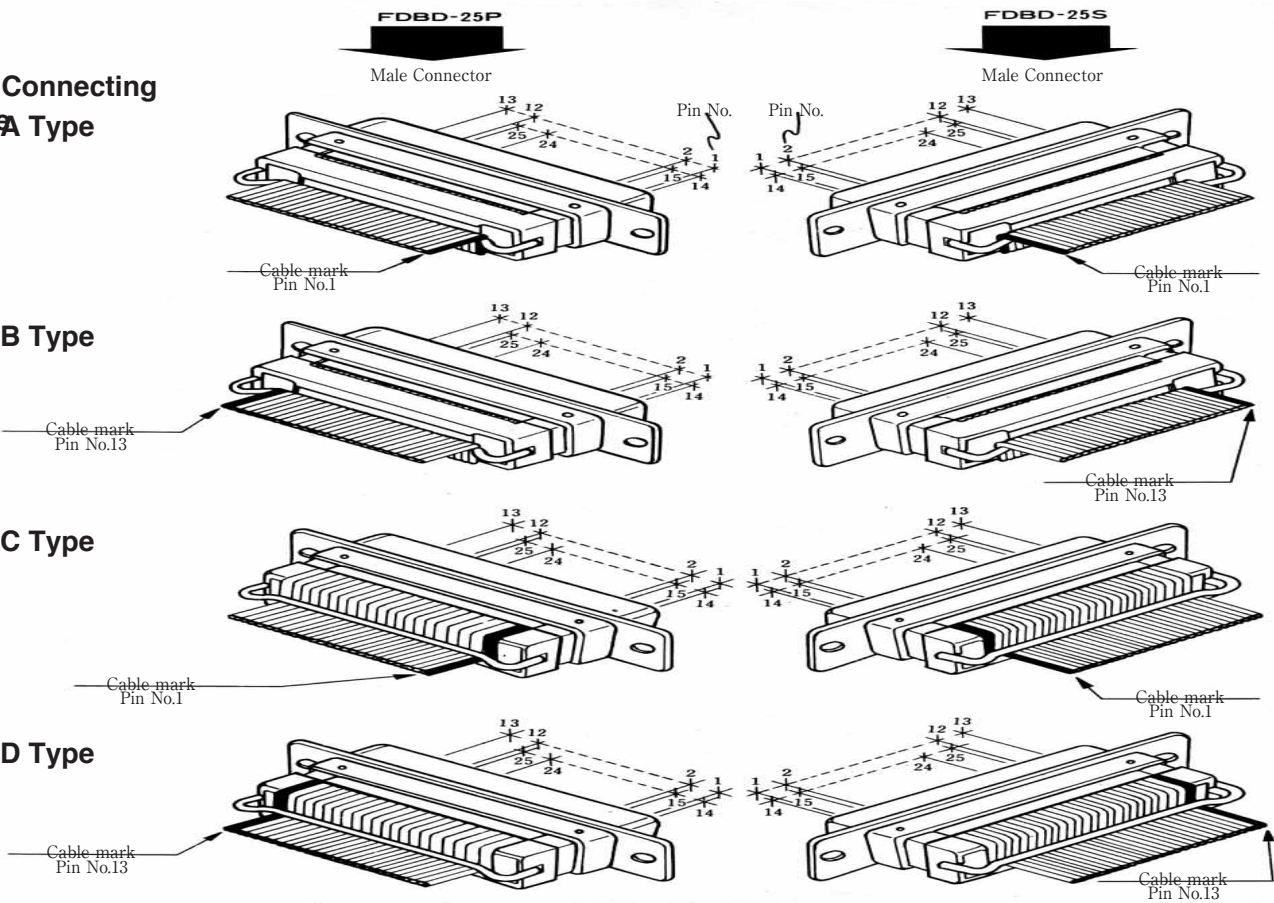


Unit: mm

Shell size	A2	B2
E	24.99	20.2
A	33.32	28.6
B	47.04	42.5
C	63.5	59.2

Cabling Variations

▶▶ Connecting Type A Type



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.

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

2) Pressure Block

Application connector	Part No.	HRS No
FDED-9P (55)	FDE-P	CL902-0006-3
FDED-9S (55)	FDE-S	CL902-0007-6
FDED-15P (55)	FDA-P	CL902-0009-1
FDED-15S (55)	FDA-P	CL902-0010-0
FDED-25P (55)	FDB-P	CL902-0003-5
FDED-25S (55)	FDB-S	CL902-0004-8
FDED-37P (55)	FDC-P	CL902-0012-6
FDED-37S (55)	FDC-S	CL902-0013-9

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

Cable	Part No.	HRS No
Discrete Wire	FDXD-1.27 Discrete Wire Gulde Plate	CL902-0041-4
Flat Cable	FDXD-1.27 Flat Cable Gulde Plate	CL902-0042-7

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