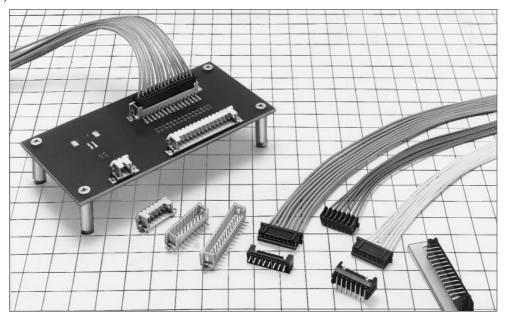
DF3 SERIES

2 mm Pitch Discrete Wire Connection Connector (Recognized Components in UL and CSA)



Features

Many variations ensure compatibility with various board designs.

- Insulation displacement termination socket
 - (1) Low profile design with a package height of 6.8 mm.
 - (2) Can be used for multi-harness by automatic insulation displacement terminator when combined with the DF11 series insulation displacement connector.
 - (The DF11 series is a connector with a 2 mm pitch, 2-row arrangement. See pages 80 through 91.)
- Crimp socket
- (1) Low profile design with a package height of 7.5 mm. For details, see the Application drawing on page 63.
- 2) Sufficient space for the connector crimping part, enabling stable crimping work.
- Receptacle
- Can connect to a board vertically or horizontally and combined with straight and right-angle headers.
- (2) Horizontal board connection achieves a very low profile of 6.6 mm. For details, see the Application drawing on page 63.
- (3) Interchangeable with the extension plug: in board-to-cable connection, the board side terminal can be a receptacle with the cable side terminal being a plug.
- Pin header
- (1) Post pins are kinked for temporarily fixing to a board.
- (2) Box-type prevents the header from prying out.
- (3) SMT-compatible headers using heat-resistant resin are available. Reinforcement for the headers of this type prevents separation of soldered parts.
- Extension plug (1) Available in two types: space-saving type, and panel lock type, which can be fixed to the panel.
 - (2) Extension adapters are available that have plugs on both sides. Such adapters allow terminal No. 1 to No. 1 circuit connection.
- Plating Tin-plating and gold-plating are standard.

Applications

General OA equipment such as copying machines and printers

■ Product standard

				AWG	22~	24 :3A	Operating temp.	-30~85°C (Note 2)
	Rated current	Crimping	Wire size	e AWG	26	:2A	Operating humidity	40~80%
Rating	(Note 1)			AWG	28	:1A	Storage town	10, 60% (Note 3)
		ID termination	Wire size	e AWG	26,	28 :1A	Storage temp.	-10~60°C (Note 3)
	Rated voltage	Crimping	AC250V	ID termination	AC	100V	Storage humidity	40~70% (Note 3)

Approved by UL-CSA Safety Standard							
Rating	Rated current	Wire size	AWG 24~28:1A				
Rating	Rated voltage	AC30V					

■UL & CSA Safety Standards File No.

UL :E52653 CSA :LR95109

■Items approved by UL & CSA

①DF3-*S-2C

②DF3/3A-*P-2DSA/DS

③DF3/DF3AA-*EP-2C

4DF3-*S-2R26/28

⑤DF3-*P-2H

Item	Standard	Conditions					
Insulation resistance	1000 M Ω or more	Measured at 500	VDC				
2. Withstand voltage	No flashover or dielectric breakdown allowed	AC650V 1 min	ute				
3. Contact resistance	30 m $Ω$ or less	Measured at 100	mA				
4. Insertion and withdrawals force	MIN 0.3 N(30gf),MAX 4.4 N(450gf)	To be measured	with a steel pin of □0.5±0.002	2mm			
5. Vibration resistance	No electrical discontinuity of 1 µs or more allowed	Frequency: 10 - 5	0.75 mm, 3 directions for 2 hours				
6. Moisture resistance	Contact resistance: 30 m Ω or less, insulation resistance: 500 M Ω or more	Temperature: 40±2°C, humidity: 90 - 95%, allow 96 hours before measurement					
7. Temperature cycle	Contact resistance: 30 m Ω or less, insulation resistance: 1000 M Ω or more	(-55°C for 30 min. → 5 - 35°C for 10 min. → 85°C for 30 min. → 5 - 35°C for 10 min.)					
		5 cycles					
8. Insertion/extraction life	Contact resistance: $30 \text{ m}\Omega$ or less	Soldered-plate:3	0 insertions/extractions	Gold-plate:50 insertions/extractions			
9. Solder heat resistance	No melting of resin affecting the connector performance allowed	Dip type	Flow: 250°C for 10 min.	Manual soldering: solder temperature:			
				300°C for 2 seconds			
		SMT type Reflow: At recommend		Manual soldering: solder temperature:			
			temperature profile	300°C for 3 seconds			

Note 1: The rated current varies depending on the size of wire connected to the connector. The rating of the header itself is 3 A.

Material

Product	Part	Material	Processing	UL Rating
Crimp socket	Insulation	Polyamide resin	Black	UL94V-0
Crimp terminal for socket	Terminal	Phosphor bronze	Tin-plated or Gold-plated	
ID termination socket	Insulation	Polyamide resin	Black	UL94V-0
ID termination socket	Terminal	Phosphor bronze	Tin-plated or Gold-plated	
Doontoolo	Insulation	Polyamide resin	Black	UL94V-0
Receptacle	Terminal	Phosphor bronze	Tin-plated or Gold-plated	
Pin Header	Insulation	Polyamide resin	Black	UL94V-0
Pin neader	Terminal	Brass	Tin-plated or Gold-plated	
	Insulation	Polyamide resin	Beige	UL94V-0
S M T pin header	Terminal	Brass	Tin-plated or Gold-plated	
	Fittings	Brass	Tin-plated	
Extension plug	Insulation	Polyamide resin	Black	UL94V-0
Crimp terminal for extension plug	Terminal	Phosphor bronze	Tin-plated or Gold-plated	
Extension adapter	Insulation	Polyamide resin	Black	UL94V-0
Extension adaptor	Terminal	Brass	Tin-plated	

Note: Our tin plating is protected from whiskers.

Note 2: Includes temperature rise when power is on.

Note 3: "Storage" refers to a long period of storage without use of the product before being mounted on a board.

The operating temperature and humidity ranges apply to the connectors mounted on a board when turned off, and connectors under temporary storage such as those being transported.

Note 4: The above standards are typical for the DF3 series. The formal standards are stated in the delivery specifications.

Structure of the product number

The product specifications can be determined from the product number. When ordering, select products using the product numbers listed in this catalog. 64 to 72 pages.

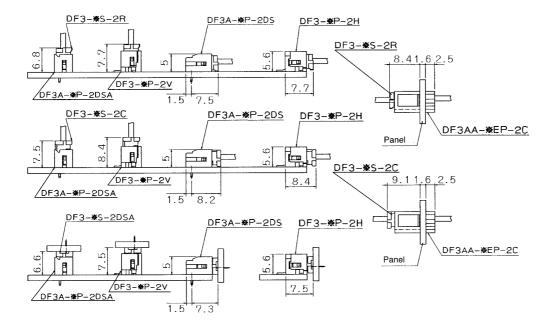
Connector

① Series Name:DF	© Connection form/Type of termination				
② Series No. :3, 3A, 3AA	C :Crimp case				
③ Number of contacts:2~15	R26:ID termination socket for AWG26				
Types of connectors	R28:ID termination socket for AWG28				
S :Socket	DSA:Straight dip				
P :Pin header	DS:Right angle dip				
EP:Extension plug	V :Straight SMT				
⑤ Contact pitch:2mm	H :Right angle SMT				
	A :Adaptor				

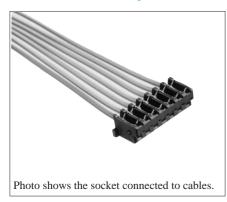
Terminal

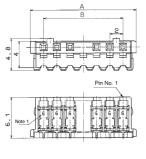
Applicable form EP:Extension	③ Type of form/Type of packaging SCF:Socket contact · Reel
② Applicable wire size	SC :Socket contact · Loose piece
22 :AWG22	PCF:Plug contact · Reel
2428:AWG24~28	PC :Plug contact · Loose piece
	4 Type of plating
	Blank:Tin-plated
	A :Gold-plated
	C :Gold-plated

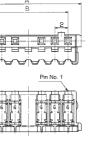
Application drawing



■ Insulation displacement termination socket









Unit:mm

Note 1: Stamp to identify the sockets

6: R26, 8: R28

[Specification No.]: -**,(**) Blank: Tin-plated, 100 pcs. per pack (01) : Gold-plated, 100 pcs. per pack : Tin-plated, 500 pcs. per package : Tin-plated, 1000 pcs. per package : Tin-plated, magazine package

For AWG26

	T .					
HRS No.	Product No.	No. of	Α	В	No. of products	
		contacts	, ,	_	in a magazine	
543-0078-7-**	DF3- 2S-2R26 (**)	2	6	2	190	
543-0079-0-**	DF3- 3S-2R26 (**)	3	8	4	142	
543-0080-9-**	DF3- 4S-2R26 (**)	4	10	6	114	
543-0081-1-**	DF3- 5S-2R26 (**)	5	12	8	94	
543-0082-4-**	DF3- 6S-2R26 (**)	6	14	10	80	
543-0083-7-**	DF3- 7S-2R26 (**)	7	16	12	70	
543-0084-0-**	DF3- 8S-2R26 (**)	8	18	14	62	
543-0085-2-**	DF3- 9S-2R26 (**)	9	20	16	56	
543-0086-5-**	DF3-10S-2R26 (**)	10	22	18	52	
543-0087-8-**	DF3-11S-2R26 (**)	11	24	20	46	
543-0088-0-**	DF3-12S-2R26 (**)	12	26	22	44	
543-0089-3-**	DF3-13S-2R26 (**)	13	28	24	40	
543-0090-2-**	DF3-14S-2R26 (**)	14	30	26	38	
543-0091-5-**	DF3-15S-2R26 (**)	15	32	28	34	

For AWG28

Unit:mm

HRS No.	Product No.	No. of	Α	В	No. of products	
11110110.	1 100001110.	contacts	, ,		in a magazine	
543-0092-8-**	DF3- 2S-2R28 (**)	2	6	2	190	
543-0093-0-**	DF3- 3S-2R28 (**)	3	8	4	142	
543-0094-3-**	DF3- 4S-2R28 (**)	4	10	6	114	
543-0095-6-**	DF3- 5S-2R28 (**)	5	12	8	94	
543-0096-9-**	DF3- 6S-2R28 (**)	6	14	10	80	
543-0097-1-**	DF3- 7S-2R28 (**)	7	16	12	70	
543-0098-4-**	DF3- 8S-2R28 (**)	8	18	14	62	
543-0099-7-**	DF3- 9S-2R28 (**)	9	20	16	56	
543-0100-4-**	DF3-10S-2R28 (**)	10	22	18	52	
543-0101-7-**	DF3-11S-2R28 (**)	11	24	20	46	
543-0102-0-**	DF3-12S-2R28 (**)	12	26	22	44	
543-0103-2-**	DF3-13S-2R28 (**)	13	28	24	40	
543-0104-5-**	DF3-14S-2R28 (**)	14	30	26	38	
543-0105-8-**	DF3-15S-2R28 (**)	15	32	28	34	

Note 2: Models without a number and (01) specified are available in packs (100 units per pack). Order them in packs.

Note 3: Models available in (40): 500 pieces per pack and (41): 1000 pieces per pack should be ordered in quantity of sockets. Order them in multiples of the ordering units, e.g., 500, 1000, 1500,--.

Note 4: (20) Magazine packaging applies to the sockets to be connected by the DF11 single core fully-automatic insulation displacement terminator.

Note 5: Order magazine packaged sockets in integral multiples of the amount contained in a magazine.

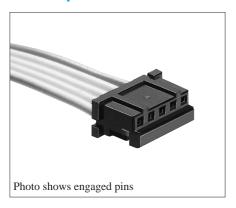
Applicable cable

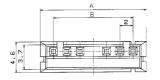
Product No.	Applicable cable	Coating O.D
DF3-*S-2R26	UL1061 AWG26 (7/0.16)	ø0.9~1mm
DF3-*S-2R28	UL1061 AWG28 (7/0.127)	ø0.9~1mm

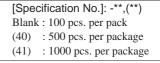
Applicable insulation displacement terminator

Туре	Product No.	Connection	Remarks
DF11 single core fully automatic insulation displacement terminator	AM700/DF11	■ Applicable harness forms ① DF11-both ends, one end ② DF11-DF11 branch ③ DF11-DF3 branch ■ Applicable harness length 100~2000mm ■ Equipped with a conductivity inspection mechanism	(20) magazine packaging applies to the connectors.
DF3 & DF4 desk-top insulation displacement terminator	DF3(4)/ID-MO		Desk-top machine for small lots

■ Crimp socket

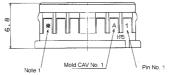






[Specification No.]: -**,(**)

(20): Tin-plated, magazine packaging(50): Gold-plated, magazine packaging





Unit:mm

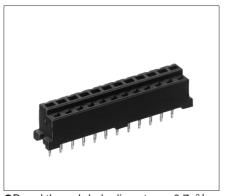
HRS No.	Product No.	No. of contacts	Α	В	HRS No.	Product No.	No. of contacts	Α	В
543-0003-8-**	DF3- 2S-2C (**)	2	6	2	543-0010-3-**	DF3- 9S-2C (**)	9	20	16
543-0004-0-**	DF3- 3S-2C (**)	3	8	4	543-0011-6-**	DF3-10S-2C (**)	10	22	18
543-0005-3-**	DF3- 4S-2C (**)	4	10	6	543-0012-9-**	DF3-11S-2C (**)	11	24	20
543-0006-6-**	DF3- 5S-2C (**)	5	12	8	543-0013-1-**	DF3-12S-2C (**)	12	26	22
543-0007-9-**	DF3- 6S-2C (**)	6	14	10	543-0014-4-**	DF3-13S-2C (**)	13	28	24
543-0008-1-**	DF3- 7S-2C (**)	7	16	12	543-0015-7-**	DF3-14S-2C (**)	14	30	26
543-0009-4-**	DF3- 8S-2C (**)	8	18	14	543-0016-0-**	DF3-15S-2C (**)	15	32	28

Note 1: Mark of number of contacts

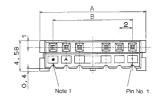
Note 2: Minimum order quantity of the models without a number specified is one pack containing 100 sockets.

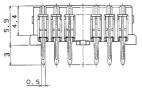
Note 3: Models available in (40): 500 pieces per package and (41): 1000 pieces per pack should be ordered in quantity of sockets. Order in multiples of order units, e.g., 500, 1000, 1500,--.

■ Receptacle



●Board through-hole diameter : Ø0.7±0.1





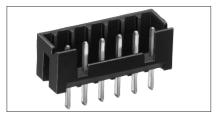
Note 1: Mark of number of contacts

Unit:mm

HRS No.	Product No.	No. of contacts	Α	В	No. of packing in a magazine	HRS No.	Product No.	No. of contacts	Α	В	No. of packing in a magazine
543-0048-6-**	DF3- 2S-2DSA (**)	2	6	2	80	543-0055-1-**	DF3- 9S-2DSA (**)	9	20	16	24
543-0049-9-**	DF3- 3S-2DSA (**)	3	8	4	60	543-0056-4-**	DF3-10S-2DSA (**)	10	22	18	21
543-0050-8-**	DF3- 4S-2DSA (**)	4	10	6	48	543-0057-7-**	DF3-11S-2DSA (**)	11	24	20	20
543-0051-0-**	DF3- 5S-2DSA (**)	5	12	8	40	543-0058-0-**	DF3-12S-2DSA (**)	12	26	22	18
543-0052-3-**	DF3- 6S-2DSA (**)	6	14	10	34	543-0059-2-**	DF3-13S-2DSA (**)	13	28	24	17
543-0053-6-**	DF3- 7S-2DSA (**)	7	16	12	30	543-0060-1-**	DF3-14S-2DSA (**)	14	30	26	16
543-0054-9-**	DF3- 8S-2DSA (**)	8	18	14	27	543-0061-4-**	DF3-15S-2DSA (**)	15	32	28	15

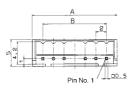
Note 2: Order magazine packaged sockets in integral multiples of the amount contained in a magazine.

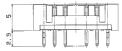
■ Straight pin header



Board through-hole diameter : Ø0.8±^{0.1}
 Temporarily kinked,

fixing effective diameter: Ø0.8±0.05







[Specification No.]: -**,(**) DF3A: Blank : Tin-plated DF3 (01) : Gold-plated

Unit:mm

Solder	red-plated	Gold-	-plated	No. of	۸	В
HRS No.	Product No.	HRS No.	Product No.	contacts	Α	Ь
543-0165-0	DF3A- 2P-2DSA	543-0017-2-01	DF3- 2P-2DSA (01)	2	6	2
543-0166-2	DF3A- 3P-2DSA	543-0018-5-01	DF3- 3P-2DSA (01)	3	8	4
543-0167-5	DF3A- 4P-2DSA	543-0019-8-01	DF3- 4P-2DSA (01)	4	10	6
543-0168-8	DF3A- 5P-2DSA	543-0020-7-01	DF3- 5P-2DSA (01)	5	12	8
543-0169-0	DF3A- 6P-2DSA	543-0021-0-01	DF3- 6P-2DSA (01)	6	14	10
543-0170-0	DF3A- 7P-2DSA	543-0022-2-01	DF3- 7P-2DSA (01)	7	16	12
543-0171-2	DF3A- 8P-2DSA	543-0023-5-01	DF3- 8P-2DSA (01)	8	18	14
543-0172-5	DF3A- 9P-2DSA	543-0024-8-01	DF3- 9P-2DSA (01)	9	20	16
543-0173-8	DF3A-10P-2DSA	543-0025-0-01	DF3-10P-2DSA (01)	10	22	18
543-0174-0	DF3A-11P-2DSA	543-0026-3-01	DF3-11P-2DSA (01)	11	24	20
543-0175-3	DF3A-12P-2DSA	543-0027-6-01	DF3-12P-2DSA (01)	12	26	22
543-0176-6	DF3A-13P-2DSA	543-0028-9-01	DF3-13P-2DSA (01)	13	28	24
543-0177-9	DF3A-14P-2DSA	543-0029-1-01	DF3-14P-2DSA (01)	14	30	26
543-0178-1	DF3A-15P-2DSA	543-0030-0-01	DF3-15P-2DSA (01)	15	32	28

Note: Minimum order quantity of the models is one pack containing 100 sockets.

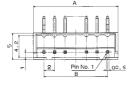
■ Right angle pin header

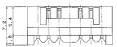


■ Board through-hole diameter : Ø0.8±^{0.1}₀

Temporarily kinked,

fixing effective diameter : Ø0.8±0.05







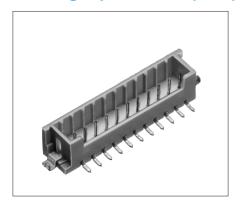
[Specification No.]: -**,(**) DF3A: Blank : Tin-plated DF3 (01) : Gold-plated

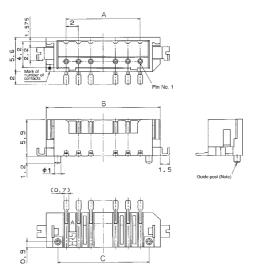
Unit:mm

Tin-	plated	Gold-	plated	No. of	^	В
HRS No.	Product No.	HRS No.	Product No.	contacts	A	В
543-0179-4	DF3A- 2P-2DS	543-0031-3-01	DF3- 2P-2DS (01)	2	6	2
543-0180-3	DF3A- 3P-2DS	543-0032-6-01	DF3 -3P-2DS (01)	3	8	4
543-0181-6	DF3A- 4P-2DS	543-0033-9-01	DF3- 4P-2DS (01)	4	10	6
543-0182-9	DF3A- 5P-2DS	543-0034-1-01	DF3- 5P-2DS (01)	5	12	8
543-0183-1	DF3A- 6P-2DS	543-0035-4-01	DF3- 6P-2DS (01)	6	14	10
543-0184-4	DF3A- 7P-2DS	543-0036-7-01	DF3- 7P-2DS (01)	7	16	12
543-0185-7	DF3A- 8P-2DS	543-0037-0-01	DF3- 8P-2DS (01)	8	18	14
543-0186-0	DF3A- 9P-2DS	543-0038-2-01	DF3- 9P-2DS (01)	9	20	16
543-0187-2	DF3A-10P-2DS	543-0039-5-01	DF3-10P-2DS (01)	10	22	18
543-0188-5	DF3A-11P-2DS	543-0040-4-01	DF3-11P-2DS (01)	11	24	20
543-0189-8	DF3A-12P-2DS	543-0041-7-01	DF3-12P-2DS (01)	12	26	22
543-0190-7	DF3A-13P-2DS	543-0042-0-01	DF3-13P-2DS (01)	13	28	24
543-0191-0	DF3A-14P-2DS	543-0043-2-01	DF3-14P-2DS (01)	14	30	26
543-0192-2	DF3A-15P-2DS	543-0044-5-01	DF3-15P-2DS (01)	15	32	28

Note: Minimum order quantity of the models is one pack containing 100 sockets.

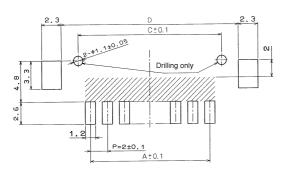
■ Straight pin header (SMT)





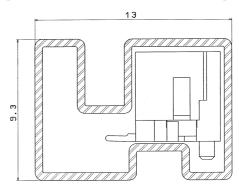
Note: The hole is not required for products without the guide

Recommended board pattern



Note: When a part marked with \(\) has a pattern and no resist on it, take care to prevent the connector terminal from contacting it.

* Magazine dimensional drawing



[Specification No.]: -**,(**)
(20): Tin-plated, magazine packaging
(50): Gold-plated, magazine packaging

Unit:mm

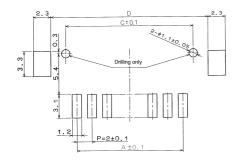
Guide po	st (Provided)	Guide post	(Not provided)	No. of	Α	В	С	D	No. of packing
HRS No.	Product No.	HRS No.	Product No.	contacts	А	Ь			in a magazine
543-0121-4-**	DF3- 2P-2V (**)	543-0207-8-**	DF3D- 2P-2V (**)	2	2	8.5	4.8	8.74	41
543-0122-7-**	DF3- 3P-2V (**)	543-0208-0-**	DF3D- 3P-2V (**)	3	4	10.5	6.8	10.74	34
543-0123-0-**	DF3- 4P-2V (**)	543-0209-3-**	DF3D- 4P-2V (**)	4	6	12.5	8.8	12.74	30
543-0124-2-**	DF3- 5P-2V (**)	543-0210-2-**	DF3D- 5P-2V (**)	5	8	14.5	10.8	14.74	26
543-0125-5-**	DF3- 6P-2V (**)	543-0211-5-**	DF3D- 6P-2V (**)	6	10	16.5	12.8	16.74	23
543-0126-8-**	DF3- 7P-2V (**)	543-0212-8-**	DF3D- 7P-2V (**)	7	12	18.5	14.8	18.74	21
543-0127-0-**	DF3- 8P-2V (**)	543-0213-0-**	DF3D- 8P-2V (**)	8	14	20.5	16.8	20.74	19
543-0128-3-**	DF3- 9P-2V (**)	543-0214-3-**	DF3D- 9P-2V (**)	9	16	22.5	18.8	22.74	18
543-0129-6-**	DF3-10P-2V (**)	543-0215-6-**	DF3D-10P-2V (**)	10	18	24.5	20.8	24.74	17
543-0130-5-**	DF3-11P-2V (**)	543-0216-9-**	DF3D-11P-2V (**)	11	20	26.5	22.8	26.74	15
543-0131-8-**	DF3-12P-2V (**)	543-0217-1-**	DF3D-12P-2V (**)	12	22	28.5	24.8	28.74	14
543-0132-0-**	DF3-13P-2V (**)	543-0218-4-**	DF3D-13P-2V (**)	13	24	30.5	26.8	30.74	14
543-0133-3-**	DF3-14P-2V (**)	543-0219-7-**	DF3D-14P-2V (**)	14	26	32.5	28.8	32.74	13
543-0134-6-**	DF3-15P-2V (**)	543-0220-6-**	DF3D-15P-2V (**)	15	28	34.5	30.8	34.74	12

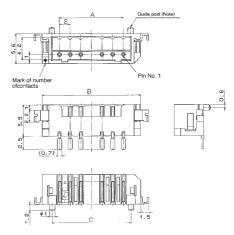
Note: Order magazine-packaged products in multiples of the amount contained in a magazine.

■ Right angle pin header (SMT)



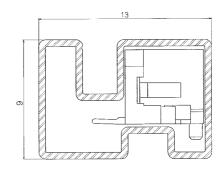
Recommended board pattern





Note: The hole is not required for products without the guide.

❖ Magazine dimensional drawing



■ Number of contacts of embossed packaged products

	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DF3 -*P-2H	0	0	\circ		0		_	_	_	_	_	_	_	
DF3D-*P-2H	0	0	0	0	0	0	0	_	0	_	_	_	_	<u> </u>

[Specification No.]: -**,(**)

(20): Tin-plated, magazine packaging

(21): Tin-plated, emboss packaging (Check the number of product contacts)

(50): Gold-plated, magazine packaging

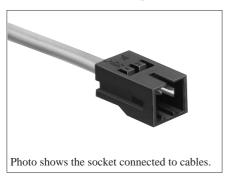
Unit:mm

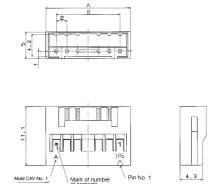
Guide po	st (Provided)	Guide post	(Not provided)	No. of	Α	В	С	D	No. of products
HRS No.	Product No.	HRS No.	Product No.	contacts	A	В			in a magazine
543-0107-3-**	DF3- 2P-2H (**)	543-0221-9-**	DF3D- 2P-2H (**)	2	2	8.5	4.8	8.74	41
543-0108-6-**	DF3- 3P-2H (**)	543-0222-1-**	DF3D- 3P-2H (**)	3	4	10.5	6.8	10.74	34
543-0109-9-**	DF3- 4P-2H (**)	543-0223-4-**	DF3D- 4P-2H (**)	4	6	12.5	8.8	12.74	30
543-0110-8-**	DF3- 5P-2H (**)	543-0224-7-**	DF3D- 5P-2H (**)	5	8	14.5	10.8	14.74	26
543-0111-0-**	DF3- 6P-2H (**)	543-0225-0-**	DF3D- 6P-2H (**)	6	10	16.5	12.8	16.74	23
543-0112-3-**	DF3- 7P-2H (**)	543-0226-2-**	DF3D- 7P-2H (**)	7	12	18.5	14.8	18.74	21
543-0113-6-**	DF3- 8P-2H (**)	543-0227-5-**	DF3D- 8P-2H (**)	8	14	20.5	16.8	20.74	19
543-0114-9-**	DF3- 9P-2H (**)	543-0228-8-**	DF3D- 9P-2H (**)	9	16	22.5	18.8	22.74	18
543-0115-1-**	DF3-10P-2H (**)	543-0229-0-**	DF3D-10P-2H (**)	10	18	24.5	20.8	24.74	17
543-0116-4-**	DF3-11P-2H (**)	543-0230-0-**	DF3D-11P-2H (**)	11	20	26.5	22.8	26.74	15
543-0117-7-**	DF3-12P-2H (**)	543-0231-2-**	DF3D-12P-2H (**)	12	22	28.5	24.8	28.74	14
543-0118-0-**	DF3-13P-2H (**)	543-0232-5-**	DF3D-13P-2H (**)	13	24	30.5	26.8	30.74	14
543-0119-2-**	DF3-14P-2H (**)	543-0233-8-**	DF3D-14P-2H (**)	14	26	32.5	28.8	32.74	13
543-0120-1-**	DF3-15P-2H (**)	543-0234-0-**	DF3D-15P-2H (**)	15	28	34.5	30.8	34.74	12

Note 1: Order magazine-packaged products in multiples of the amount contained in a magazine.

Note 2: Order embossed-packaged products in reels (1,000 pcs, per reel).

■ Extension plug





[Specification No.]: -**,(**)
Blank: 100 pcs. per pack
(40): 500 pcs. per package
(41): 1000 pcs. per package

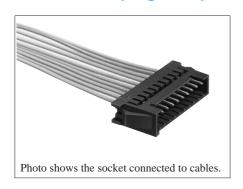
Unit:mm

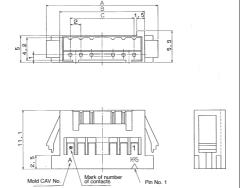
HRS No.	Product No.	No. of contacts	Α	В	HRS No.	Product No.	No. of contacts	Α	В
543-0064-2-**	DF3- 2EP-2C (**)	2	6	2	543-0071-8-**	DF3- 9EP-2C (**)	9	20	16
543-0065-5-**	DF3- 3EP-2C (**)	3	8	4	543-0072-0-**	DF3-10EP-2C (**)	10	22	18
543-0066-8-**	DF3- 4EP-2C (**)	4	10	6	543-0073-3-**	DF3-11EP-2C (**)	11	24	20
543-0067-0-**	DF3- 5EP-2C (**)	5	12	8	543-0074-6-**	DF3-12EP-2C (**)	12	26	22
543-0068-3-**	DF3- 6EP-2C (**)	6	14	10	543-0075-9-**	DF3-13EP-2C (**)	13	28	24
543-0069-6-**	DF3- 7EP-2C (**)	7	16	12	543-0076-1-**	DF3-14EP-2C (**)	14	30	26
543-0070-5-**	DF3- 8EP-2C (**)	8	18	14	543-0077-4-**	DF3-15EP-2C (**)	15	32	28

Note 1: Minimum order quantity of the models without a number specified is one pack containing 100 sockets.

Note 2: Models available in (40): 500 pieces per package and (41): 1000 pieces per pack should be ordered in quantity of sockets. Order in multiples of order units, e.g., 500, 1000, 1500,-- ..

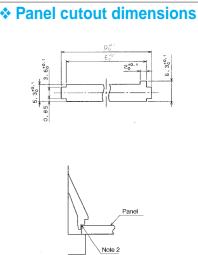
■ Extension plug with panel lock





Unit:mm

HRS No.	Product No.	No. of contacts	Α	В	С	D	Е
543-0151-5-**	DF3AA- 2EP-2C (**)	2	11	6	2	9.4	6.3
543-0152-8-**	DF3AA- 3EP-2C (**)	3	13	8	4	11.4	8.3
543-0153-0-**	DF3AA- 4EP-2C (**)	4	15	10	6	13.4	10.3
543-0154-3-**	DF3AA- 5EP-2C (**)	5	17	12	8	15.4	12.3
543-0155-6-**	DF3AA- 6EP-2C (**)	6	19	14	10	17.4	14.3
543-0156-9-**	DF3AA- 7EP-2C (**)	7	21	16	12	19.4	16.3
543-0157-1-**	DF3AA- 8EP-2C (**)	8	23	18	14	21.4	18.3
543-0158-4-**	DF3AA- 9EP-2C (**)	9	25	20	16	23.4	20.3
543-0159-7-**	DF3AA-10EP-2C (**)	10	27	22	18	25.4	22.3
543-0160-6-**	DF3AA-11EP-2C (**)	11	29	24	20	27.4	24.3
543-0161-9-**	DF3AA-12EP-2C (**)	12	31	26	22	29.4	26.3
543-0162-1-**	DF3AA-13EP-2C (**)	13	33	28	24	31.4	28.3
543-0163-4-**	DF3AA-14EP-2C (**)	14	35	30	26	33.4	30.3
543-0164-7-**	DF3AA-15EP-2C (**)	15	37	32	28	35.4	32.3



Note 1: Applicable panel thickness: 1.6 - 1.0 mm (Note that some looseness is unavoidable when the plugs are mounted on a panel of other than 1.6 or 1.2 mm thickness.)

Note 2: Use the sharp edge for engagement with the panel.

Note 3: The terminal numbers represent 1, 4, 8, 12 and 15.

[Specification No.]: -**,(**) Blank: 100 pcs. per pack (40): 500 pcs. per package (41): 1000 pcs. per package

Note 1: Minimum order quantity of the models without a number specified is one pack containing 100 sockets.

Note 2: Models available in (40): 500 pieces per package and (41): 1000 pieces per pack should be ordered in quantity of sockets. Order in multiples of order units, e.g., 500, 1000, 1500,--.

■ Extention plug with panel lock



Extension adapter to accept two sockets on both sides

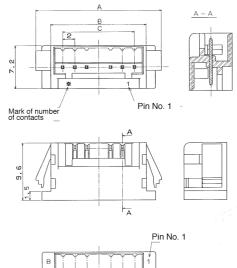
No. 1 to No. 1 circuit connection type

543-0277-3-**

543-0278-6-**

543-0279-9-**

543-0280-8-**



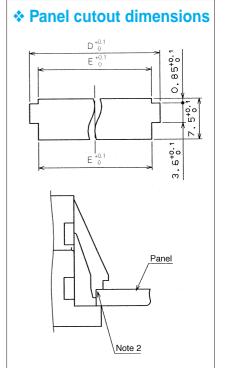
HRS No.	Product No.	No. of contacts	Α	В	С	D	Е
543-0267-0-**	DF3- 2EP-2A (**)	2	11	6	2	9.4	6.3
543-0268-2-**	DF3- 3EP-2A (**)	3	13	8	4	11.4	8.3
543-0269-5-**	DF3- 4EP-2A (**)	4	15	10	6	13.4	10.3
543-0270-4-**	DF3- 5EP-2A (**)	5	17	12	8	15.4	12.3
543-0271-7-**	DF3- 6EP-2A (**)	6	19	14	10	17.4	14.3
543-0272-0-**	DF3- 7EP-2A (**)	7	21	16	12	19.4	16.3
543-0273-2-**	DF3- 8EP-2A (**)	8	23	18	14	21.4	18.3
543-0274-5-**	DF3- 9EP-2A (**)	9	25	20	16	23.4	20.3
543-0275-8-**	DF3-10EP-2A (**)	10	27	22	18	25.4	22.3
543-0276-0-**	DF3-11EP-2A (**)	11	29	24	20	27.4	24.3

DF3-12EP-2A (**)

DF3-13EP-2A (**)

DF3-14EP-2A (**)

DF3-15EP-2A (**)



Note 1: Applicable panel thickness: 1.6 -1.0 mm (Note that some looseness is unavoidable when the plugs are mounted on a panel of other than 1.6 or 1.2 mm thickness.)

Note 2: Use the sharp edge for engagement with the panel.

[Specification No.]: -**,(**) Blank: 100 pcs. per pack

26.3

28.3

30.3

32.3

15 Note 1: Minimum order quantity of the models without a number specified is one pack containing 100 sockets.

12

13

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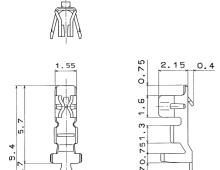
29.4

31.4

33.4

35.4

■ Socket crimp terminal



_						
	HRS No.	Product No.	Type	Quantity	Processing	
	543-0235-3	DF3-22SCF	Reel terminal	10,000 units per reel		
	543-0236-6	DF3-22SC	Loose terminals	100 pcs. per pack	Tip ploted	
	543-0001-2	DF3-2428SCF	Reel terminal	10,000 units per reel	Tin-plated	
	543-0002-5	DF3-2428SC	Loose terminals	100 pcs. per pack		
	543-0046-0	DF3-2428SCFC	Reel terminal	10,000 units per reel	Gold-plate	
	543-0047-3	DF3-248SCC	Loose terminals	100 pcs. per pack	Gold-plate	

• Applicable wire (Tin-plated annealed copper wire)

Conductor size (core construction)	Coating diameter
AWG 22 (17core/0.16mm)	ø1.2~ ø1.45mm
AWG 24 (11core/0.16mm)	
AWG 26 (7core/0.16mm)	ø0.75~ ø1.45mm
AWG 28 (7core/0.127mm)	

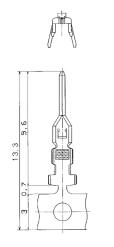
Recommende wire
 UL1061, UL1007 (Note 2)

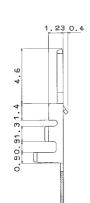
• Strip length 1.8~2.3mm

Note 1: Contact our sales department for unspecified wires.

Note 2: UL1061 applies to DF3-22SCF

■ Crimp terminal for extension plug





HRS No.	Product No.	Туре	Quantity	Processing	
543-0062-7	DF3-EP2428PCF	Reel terminal	10,000 units per reel	Tin plated	
543-0063-0	DF3-EP2428PC	Loose terminals	100 pcs. per pack	Tin-plated	
543-0149-3	DF3-EP2428PCFA	Reel terminal	10,000 units per reel	Cold plated	
543-0150-2	DF3-EP2428PCA	Loose terminals	100 pcs. per pack	Gold-plated	

• Applicable wire (Tin-plated annealed copper wire)

Conductor size (core construction)	Coating diameter		
AWG 24 (11core/0.16mm)			
AWG 26 (7 core/0.16mm)	ø0.75~ø1.45mm		
AWG 28 (7 core/0.127mm)			

Note: Contact our sales department for unspecified wires.

• Recommened wire UL1061, UL1007

• Strip length 1.9~2.5mm

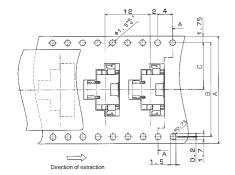
Applicable clamping tool

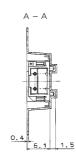
Type	HRS No.	Product No.	Applicable contact	
	901-4503-3	AP105-DF3-2428S	DF3-2428SCF/SCFC	
Applicator	901-4549-4	AP105-DF3-22S	DF3-22SCF	
	901-4508-7	AP105-DF3-EP2428P	DF3-EP2428PCF/PCFA	
Press body	901-0005-4	CM-105		
Manual crimping	550-0164-5	DF3-TA2428HC	DF3-2428SC/SCC	
tool	550-0184-2	DF3EP-TA2428HC	DF3-EP2428PC/PCA	
	550-0257-4	DF3-TA22HC	DF3-22SC	
Extraction tool	550-0170-8	DF-C-PO(A)	DF3-***SCF	
EXITACIION 1001			DF3-EP***PCF	

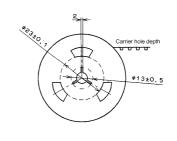
Note: We will not honor the warranty if a problem is caused by using a tool not approved by Hirose.

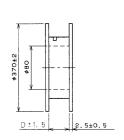


Embossed tape carrier dimensional drawing (complies with JIS-C-0806)









Unit:mm

Product type Dimension	No. of contact	А	В	С	D
	2~4	24		11.5	26
DF3/3D-*P-2H	5~7	32	28.4	14.2	34
	8~12	44	40.4	20.2	46

Notes on use

