imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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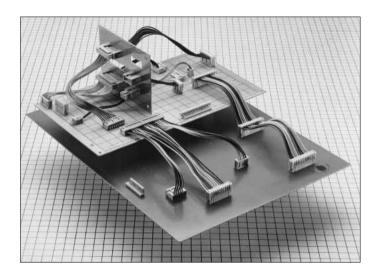
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

2.5mm Pitch Connector for Discrete Wire Connection

DF1 Series



Features

1. Board Mounting Height (Crimping Type)

10mm 2.5mm pitch connector achieves the low profile.

2. Insulation Displacement Area Protected by Protector (ID Type)

The connector is structured to protect the insulation displacement connection area by the protector. Therefore, the connector has a strong tensile strength against the cable and prevents dusts.

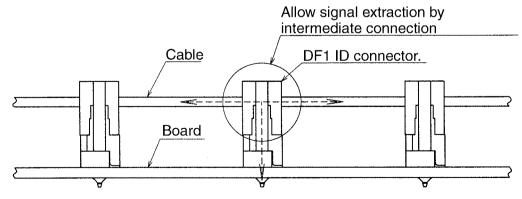
3. Easy Connection by Easy Tool (ID Type)

No expensive insulation displacement machine is needed. The connection can be established only by mating the cable into the protector and fastening it with the ID tool.

4. Intermediate Connection Possible (ID Type)

For intermediate connection, the connector allows signal extraction during cabling.

[Intermediate Connection]



Applications

FA equipment, measurement equipment

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hipperwsheite RoHS 2:5000 at protectors connectors connect

■Product Specifications

Rating		nt rating lote1)	Cable Size	AWG 24 : 3A AWG 26 : 2A AWG 28 : 1A	Operating Temperature Range Operating Moisture Range Storage Temperature Range	-30 to +85°C (Note2) 40 to 80% -10 to +60°C (Note3)		
	Voltage rating		2	250V AC	Storage Moisture Range 40 to 70% (Note			
Item Specification			Condition					
1. Insulation R	I. Insulation Resistance 1000M ohms Min		500V DC					
2. Withstanding voltage No flashover or insulation breakdown.		own.	650V AC/1 minute					
3. Contact Res	3. Contact Resistance 30m ohms Max			100mA				
4. Insertor/Extra	ction Force	MIN0.56N (57	gf), MAX4.4N(450g	f)	Measure by the square steel pin with 0.635±0.002mm			
5. Vibration		No electrical d	iscontinuity of 1μ s	or more	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions.			
6. Moisture Re	esistance	Contact resistance:	30m ohms Max Insulation	resistance: 1000M ohms Min	96 hours at temperature of 40° C and humidity of 90% to 95%			
7 Temperatur		Contact registeres	20m ohmo mov Inculation	resistance: 1000M share min	(-55°C: 30 minutes → 5~35°C: 10	minutes→		
7. Temperatur	e Cycle	Contact resistance:	som onms max.insulation	resistance: 1000M ohms min.	85°C: 30 minutes → 5~35°C: 10	40 to 80% -10 to +60°C ^(Note3) 40 to 70% ^(Note3) th 0.635±0.002mm hours in each of the 3 directions. Junidity of 90% to 95% inutes→ inutes) 5 cycles		
8. Durability (Mati	ng/un-mating)	Contact resista	ance: 30m ohms m	ax.	Tin plating: 30 cycles			
9. Resistance to Soldering heat No deformation		n of components affe	ecting performance.	Flow: 250°C for 10 seconds Manual soldering: 300°C for 3 sec	conds			

Note 1. The rated current will be changed according to cable sizes for use. For the header only, the rating is 3A.

Note 2: Includes temperature rise caused by current flow.

Note 3: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.

Note 4: Information contained in this catalog represents general requirements for this Series. Contact us for the drawings and specifications for a specific part number shown.

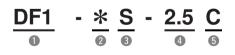
■Material

Product	Part	Material	Finish	Remarks
Crimping Socket	Insulator	Polyamide	Light Brown	UL94V-0
Crimping Contact	Contact	Phosphor copper	Tin plated	
	Insulator	Polyamide	Light Brown	UL94V-0
ID Socket	Contact	Phosphor copper	Tin plated	
Pin Header	Insulator	Polyamide	Light Brown	UL94V-0
	Contact	Phosphor copper	Tin plated	

Note:Hirose's tin-plated products takes measures against whisker.

Ordering Information

Connector



Series Name : DF1 6 Contact Type 2 Number of Contact : 2 to 16, 20 C : Crimping socket Connector Type R24 : AWG24 ID socket S: Socket R26 : AWG26 ID socket P: Pin Header R28 : AWG28 ID socket 4 Contact Pitch : 2.5mm DSA : Straight through hole DS : Right angle through hole Number of Contact : 2 to 16, 20 Cable Clamp Size 1.05: UL1007 AWG26, 28 Connector Type A: Discrete wire 1.33: UL1007 AWG24 Applicable Cable Size Packaging Type 2428: AWG 24 to 28 SCF : Socket contact, reel packaging / Tin plated SC : Socket contact, bag packaging / Tin plated

DF1 -	* A 1.05
●Contact	
DF1 -	2428SCF
	0 2

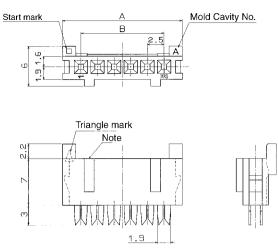
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■ID Socket (Open End Type)



Applicable Cable

Part Number	Applicable Cable	Jacket Diameter
DF1-*S-2.5R24(05)	UL1007 AWG24(11 pieces/0.16mm)	1.35 to 1.45mm
DF1-*S-2.5R26(05)	UL1007 AWG26(7 pieces/0.16mm)	1.25 to 1.35mm
DF1-*S-2.5R28(05)	UL1007 AWG28(7 pieces/0.127mm)	1.15 to 1.25mm



Note: This convex portion is located (2 contacts: the center at one point)(3 to 6 contacts: as shown in the illustration)(more than 7 contacts: one center at one point added to the above illustration).

Unit: mm

Unit: mm

(Tin plated annealing copper wire)

•AWG24 Cable Socket Size (Triangle Mark: Green)

Part Number	CL No.	Number of Contacts	Α	В	RoHS	Part Number	CL No.	Number of Contacts	Α	В	RoHS
DF1-2S-2.5R24(05)	541-0039-2-05	2	8	2.5		DF1-10S-2.5R24(05)	541-0047-0-05	10	28	22.5	
DF1-3S-2.5R24(05)	541-0040-1-05	3	10.5	5		DF1-11S-2.5R24(05)	541-0048-3-05	11	30.5	25	
DF1-4S-2.5R24(05)	541-0041-4-05	4	13	7.5		DF1-12S-2.5R24(05)	541-0049-6-05	12	33	27.5	
DF1-5S-2.5R24(05)	541-0042-7-05	5	15.5	10	Yes	DF1-13S-2.5R24(05)	541-0050-5-05	13	35.5	30	Yes
DF1-6S-2.5R24(05)	541-0043-0-05	6	18	12.5	res	DF1-14S-2.5R24(05)	541-0051-8-05	14	38	32.5	res
DF1-7S-2.5R24(05)	541-0044-2-05	7	20.5	15		DF1-15S-2.5R24(05)	541-0052-0-05	15	40.5	35	
DF1-8S-2.5R24(05)	541-0045-5-05	8	23	17.5		DF1-16S-2.5R24(05)	541-0053-3-05	16	43	37.5	
DF1-9S-2.5R24(05)	541-0046-8-05	9	25.5	20		DF1-20S-2.5R24(05)	541-0057-4-05	20	53	47.5	

•AWG26 Cable Socket Size (Triangle Mark: Light Blue)

AWG26 Cabl	e Socket S	ize (Triangle	e Mark	:: Ligh	t Blue))				U	Init: mm
Part Number	CL No.	Number of Contacts	Α	В	RoHS	Part Number	CL No.	Number of Contacts	Α	В	RoHS
DF1-2S-2.5R26(05)	541-0058-7-05	2	8	2.5		DF1-10S-2.5R26(05)	541-0066-5-05	10	28	22.5	
DF1-3S-2.5R26(05)	541-0059-0-05	3	10.5	5		DF1-11S-2.5R26(05)	541-0067-8-05	11	30.5	25	
DF1-4S-2.5R26(05)	541-0060-9-05	4	13	7.5		DF1-12S-2.5R26(05)	541-0068-0-05	12	33	27.5	
DF1-5S-2.5R26(05)	541-0061-1-05	5	15.5	10	Yes	DF1-13S-2.5R26(05)	541-0069-3-05	13	35.5	30	Yes
DF1-6S-2.5R26(05)	541-0062-4-05	6	18	12.5	res	DF1-14S-2.5R26(05)	541-0070-2-05	14	38	32.5	res
DF1-7S-2.5R26(05)	541-0063-7-05	7	20.5	15]	DF1-15S-2.5R26(05)	541-0071-5-05	15	40.5	35	
DF1-8S-2.5R26(05)	541-0064-0-05	8	23	17.5		DF1-16S-2.5R26(05)	541-0072-8-05	16	43	37.5	
DF1-9S-2.5R26(05)	541-0065-2-05	9	25.5	20		DF1-20S-2.5R26(05)	541-0076-9-05	20	53	47.5	

•AWG28 Cable Socket Size (Triangle Mark: Red)

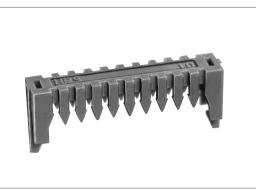
Part Number	CL No.	Number of Contacts	Α	В	RoHS	Part Number	CL No.	Number of Contacts	Α	В	RoHS
DF1-2S-2.5R28(05)	541-0115-9-05	2	8	2.5		DF1-10S-2.5R28(05)	541-0123-7-05	10	28	22.5	
DF1-3S-2.5R28(05)	541-0116-1-05	3	10.5	5		DF1-11S-2.5R28(05)	541-0124-0-05	11	30.5	25	
DF1-4S-2.5R28(05)	541-0117-4-05	4	13	7.5		DF1-12S-2.5R28(05)	541-0125-2-05	12	33	27.5	
DF1-5S-2.5R28(05)	541-0118-7-05	5	15.5	10	Yes	DF1-13S-2.5R28(05)	541-0126-5-05	13	35.5	30	Yes
DF1-6S-2.5R28(05)	541-0119-0-05	6	18	12.5	res	DF1-14S-2.5R28(05)	541-0127-8-05	14	38	32.5	res
DF1-7S-2.5R28(05)	541-0120-9-05	7	20.5	15		DF1-15S-2.5R28(05)	541-0128-0-05	15	40.5	35	
DF1-8S-2.5R28(05)	541-0121-1-05	8	23	17.5		DF1-16S-2.5R28(05)	541-0129-3-05	16	43	37.5	
DF1-9S-2.5R28(05)	541-0122-4-05	9	25.5	20		DF1-20S-2.5R28(05)	531-0133-0-05	20	53	47.5	

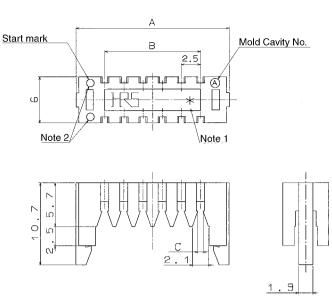
Note:A packaging quantity is delivered by the bag unit (100 pcs.). If needed, please order the products per bag.

Npk.11.20115 Comparight 20115 IN IROSEE ELLECTIFIC CCO., LTTD. ANI IRights Reserved.

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Protector





Note 1.Product contact No. mark, however 2 and 3 contacts are not indicated. Note 2.Round hole to distinguish the protector A1.05 and 1.33 (DF1-*A1.05 only)

Select the	avata atav	ster in an	a atima tha	achla	in alcat	diamater	faringa
Select the	oroiecior a	iner mst	eciina me	cable	аскег	olameler	lor use.
00.000.000					100.00		

Protector Type	Applicable Jacket Diameter	Recommended Cable
DF1-*A1.33	φ1.35 to φ1.45	UL1007 AWG24
DF1-*A1.05	¢1.1 to ¢1.35	UL1007 AWG26 28

*indicates contact No.

●AWG24 Cable Protector Size

AWG24 Cabl	DAWG24 Cable Protector Size						
Part Number	CL No.	Number of Contacts	А	В	С	RoHS	
DF1- 2A1.33	541-0077-1	2	10	2.5	1.1		
DF1- 3A1.33	541-0078-4	3	12.5	5	1.1		
DF1- 4A1.33	541-0079-7	4	15	7.5	1.1		
DF1- 5A1.33	541-0080-6	5	17.5	10	1.1		
DF1- 6A1.33	541-0081-9	6	20	12.5	1.1		
DF1- 7A1.33	541-0082-1	7	22.5	15	1.1		
DF1- 8A1.33	541-0083-4	8	25	17.5	1.1]	
DF1- 9A1.33	541-0084-7	9	27.5	20	1.1	Yes	
DF1-10A1.33	541-0085-0	10	30	22.5	1.1	res	
DF1-11A1.33	541-0086-2	11	32.5	25	1.1		
DF1-12A1.33	541-0087-5	12	35	27.5	1.1]	
DF1-13A1.33	541-0088-8	13	37.5	30	1.1]	
DF1-14A1.33	541-0089-0	14	40	32.5	1.1		
DF1-15A1.33	541-0090-0	15	42.5	35	1.1		
DF1-16A1.33	541-0091-2	16	45	37.5	1.1]	
DF1-20A1.33	541-0095-3	20	55	47.5	1.1		

•AWG26, 28 Ca	or Size

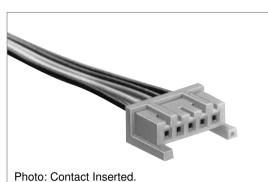
Unit: mm

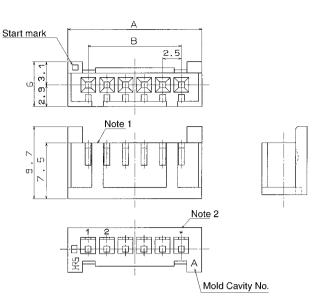
Part Number	CL No.	Number of Contacts	Α	В	С	RoHS
DF1- 2A1.05	541-0096-6	2	10	2.5	0.7	110110
			-	-	-	
DF1- 3A1.05	541-0097-9	3	12.5	5	0.7	
DF1- 4A1.05	541-0098-1	4	15	7.5	0.7	
DF1- 5A1.05	541-0099-4	5	17.5	10	0.7	
DF1- 6A1.05	541-0100-1	6	20	12.5	0.7	
DF1- 7A1.05	541-0101-4	7	22.5	15	0.7	
DF1- 8A1.05	541-0102-7	8	25	17.5	0.7	
DF1- 9A1.05	541-0103-0	9	27.5	20	0.7	Yes
DF1-10A1.05	541-0104-2	10	30	22.5	0.7	res
DF1-11A1.05	541-0105-5	11	32.5	25	0.7	
DF1-12A1.05	541-0106-8	12	35	27.5	0.7	
DF1-13A1.05	541-0107-0	13	37.5	30	0.7	
DF1-14A1.05	541-0108-3	14	40	32.5	0.7	
DF1-15A1.05	541-0109-6	15	42.5	35	0.7	
DF1-16A1.05	541-0110-5	16	45	37.5	0.7]
DF1-20A1.05	541-0114-6	20	55	47.5	0.7	

Note: A packaging quantity is delivered by the bag unit (100 pcs.). If needed, please order the product per bag.

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Crimping Socket





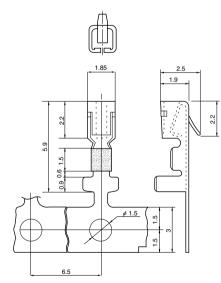
Note1:This convex portion is located (2 contacts: the center at one point)(3 to 6 contacts: as shown in the illustration)(more than 7 contacts: one center at one point added to the above illustration). Note 2.The terminal number indicates all contact numbers. Unit: mm

Part Number	CL No.	Number of Contacts	Α	В	RoHS	Part Number	CL No.	Number of Contacts	Α	В	RoHS
Fait Number	GLINU.	Number of Contacts	A	D	nun3		GL NU.	Number of Contacts	A	D	nun3
DF1- 2S-2.5C	541-0136-9	2	8	2.5		DF1-11S-2.5C	541-0145-0	11	30.5	25	
DF1- 3S-2.5C	541-0137-1	3	10.5	5		DF1-12S-2.5C	541-0146-2	12	33	27.5	
DF1- 4S-2.5C	541-0138-4	4	13	7.5		DF1-13S-2.5C	541-0147-5	13	33.5	30	
DF1- 5S-2.5C	541-0139-7	5	15.5	10		DF1-14S-2.5C	541-0148-8	14	38	32.5	Yes
DF1- 6S-2.5C	541-0140-6	6	18	12.5	Yes	DF1-15S-2.5C	541-0149-0	15	40.5	35	res
DF1- 7S-2.5C	541-0141-9	7	20.5	15		DF1-16S-2.5C	541-0150-0	16	43	37.5	
DF1- 8S-2.5C	541-0142-1	8	23	17.5		DF1-18S-2.5C	541-0152-5	18	48	42.5	
DF1- 9S-2.5C	541-0143-4	9	25.5	20		DF1-20S-2.5C	541-0154-0	20	53	47.5	
DE1-10S-2.5C	541-0144-7	10	28	22.5							

DF1-10S-2.5C 541-0144-7 10 28 22.5

Note: A packaging quantity is delivered by the bag unit (100 pcs.). If needed, please order the product per bag.

Crimping Contact for Socket



Part Number	CL No.	Packaging Type	Number of Contacts	Finish	RoHS
DF1-2428SCF	541-0134-3	Reel	10000	Tin plating	Yes
DF1-2428SC	541-0135-6	Bag	10000 Tin plating		Tes

•Applicable Cable (Tin Plated Annealing Copper Wire)

Conductor Size (wire construction)	Jacket Diameter
AWG24 (11 cores/0.16mm)	
AWG26 (7 cores/0.16mm)	<i>ϕ</i> 0.9 to <i>ϕ</i> 1.5mm
AWG28 (07 cores/1.24mm)	

Note:If other cables are used instead of the applicable cable, contact Hirose sales department.

Recommended Cable

UL1061, UL1007

Strip Length

1.9 to 2.4mm

● Applicable Crimping Tool

Туре	Part Number	CL No.	Applicable Contact			
Applicator	AP105-DF1-2428S	901-4538-8	DF1-2428SCF			
Press Main Unit	CM-105	901-0005-4				
Manual Crimping Tool	DF1-T2428S	550-0102-8	DF1-2428SC			
Extraction Tool	Flat-bladed screwdriver, 0.75 mm max, blade width.					

Note 1: If a trouble has occurred due to tools which are not designated by Hirose, Hirose won't guarantee any product.

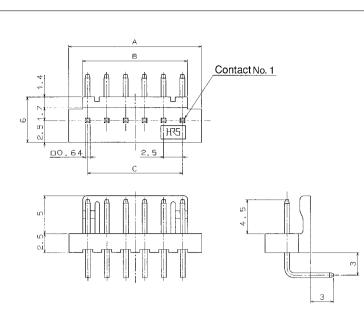
Note 2: Refer to tecknical specification for work method of extraction tool.

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Pin Header Right Angle Type



Board Through-hole Diameter : ø1.1^{+0.1}

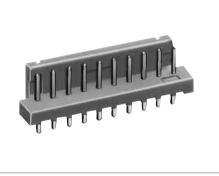


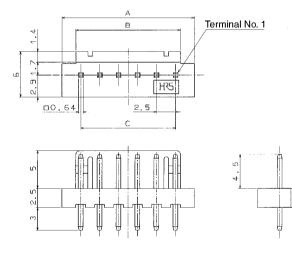
Unit: mm

Part Number	CL No.	Number of Contacts	Α	В	С	RoHS	Part Number	CL No.	Number of Contacts	Α	В	С	RoHS
DF1- 2P-2.5DS(05)	541-0020-4-05	2	7.5	3.8	2.5		DF1-11P-2.5DS(05)	541-0029-9-05	11	30	26.3	25	
DF1- 3P-2.5DS(05)	541-0021-7-05	3	10	6.3	5		DF1-12P-2.5DS(05)	541-0030-8-05	12	32.5	28.8	27.5	
DF1- 4P-2.5DS(05)	541-0022-0-05	4	12.5	8.8	7.5		DF1-13P-2.5DS(05)	541-0031-0-05	13	35	31.3	30	
DF1- 5P-2.5DS(05)	541-0023-2-05	5	15	11.3	10		DF1-14P-2.5DS(05)	541-0032-3-05	14	37.5	33.8	32.5	Yes
DF1- 6P-2.5DS(05)	541-0024-5-05	6	17.5	13.8	12.5	Yes	DF1-15P-2.5DS(05)	541-0033-6-05	15	40	36.3	35	res
DF1- 7P-2.5DS(05)	541-0025-8-05	7	20	16.3	15		DF1-16P-2.5DS(05)	541-0034-9-05	16	42.5	38.8	37.5	
DF1- 8P-2.5DS(05)	541-0026-0-05	8	22.5	18.8	17.5		DF1-18P-2.5DS(05)	541-0036-4-05	18	47.5	43.8	42.5	
DF1- 9P-2.5DS(05)	541-0027-3-05	9	25	21.3	20		DF1-20P-2.5DS(05)	541-0038-0-05	20	52.5	48.8	47.5	
DF1-10P-2.5DS(05)	541-0028-6-05	10	27.5	23.8	22.5								

Note 1.A packaging quantity is delivered by the bag unit (100 pcs.). If needed, please order the product per bag. Note 2.The socket applicable to the 18 contact connector is only crimping type.

Pin Header Straight Type





•Board Through-hole Diameter :

U	nit:	mm

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Part Number	CL No.	Number of Contacts	Α	В	С	RoHS	Part Number	CL No.	Number of Contacts	А	В	С	RoHS
DF1- 2P-2.5DSA(05)	541-0001-0-05	2	7.5	3.8	2.5		DF1-11P-2.5DSA(05)	541-0010-0-05	11	30	26.3	25	
DF1- 3P-2.5DSA(05)	541-0002-2-05	3	10	6.3	5		DF1-12P-2.5DSA(05)	541-0011-3-05	12	32.5	28.8	27.5	
DF1- 4P-2.5DSA(05)	541-0003-5-05	4	12.5	8.8	7.5		DF1-13P-2.5DSA(05)	541-0012-6-05	13	35	31.3	30	
DF1- 5P-2.5DSA(05)	541-0004-8-05	5	15	11.3	10		DF1-14P-2.5DSA(05)	541-0013-9-05	14	37.5	33.8	32.5	Yes
DF1- 6P-2.5DSA(05)	541-0005-0-05	6	17.5	13.8	12.5	Yes	DF1-15P-2.5DSA(05)	541-0014-1-05	15	40	36.3	35	res
DF1- 7P-2.5DSA(05)	541-0006-3-05	7	20	16.3	15		DF1-16P-2.5DSA(05)	541-0015-4-05	16	42.5	38.8	37.5	
DF1- 8P-2.5DSA(05)	541-0007-6-05	8	22.5	18.8	17.5		DF1-18P-2.5DSA(05)	541-0017-0-05	18	47.5	43.8	42.5	
DF1- 9P-2.5DSA(05)	541-0008-9-05	9	25	21.3	20		DF1-20P-2.5DSA(05)	541-0019-5-05	20	52.5	48.8	47.5	
DF1-10P-2.5DSA(05)	541-0009-1-05	10	27.5	23.8	22.5								

Note 1.A packaging quantity is delivered by the bag unit (100 pcs.). If needed, please order the product per bag. Note 2. The socket applicable to the 18 contacts connector is only crimping type.

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHSprod standards have been discontinued and please over the conducts status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

●DF1 Connection Press

Part Number	CL No.	Height	Width	Depth	Weight
DF1 Connection Press HP513	550-0134-4	200mm	260mm	250mm	3.7kg

Note:The intermediate connection can be established by removing the cable cuttingblade of this press machine.

Select a protector after inspecting a cable Jacket diameter for use.

Protector Type	Applicable Jacket Diameter	Recommended Cable
DF1-*A1.33	φ1.35 to φ1.45	UL1007 AWG24
DF1-*A1.05	φ1.1 to φ1.35	UL1007 AWG26, 28

* indicates contact No.

●DF1 Cable Crimper

Part Number	CL No.
DF1 Cable Crimper	550-0130-3

Used to install the cable in the protector.

Precautions

1. Recommended Soldering Condition	Flow: 250°C for 10 seconds
	Manual soldering: 300°C for 3 seconds
2. Cleaning Condition	Refer to Nylon Connector Use Hand book.
3. Connection Condition	[Crimping]
	Refer to Nylon Connector Use Hand book.
	[ID]
	•For the insulation displacement tool, set a set of connector per insulation displacement. If more
	than 2 connectors have been set, they interrupt each other, which will cause an insulation
	displacement failure.
	•After the insulation displacement, make sure that the locks on both protector sides are
	completely activated.
4. Precation	Slight variations in color of the plastic compounds do not affect form, fit or function of the connector.
5. Precation	Refer to Nylon Connector Use Hand book.



