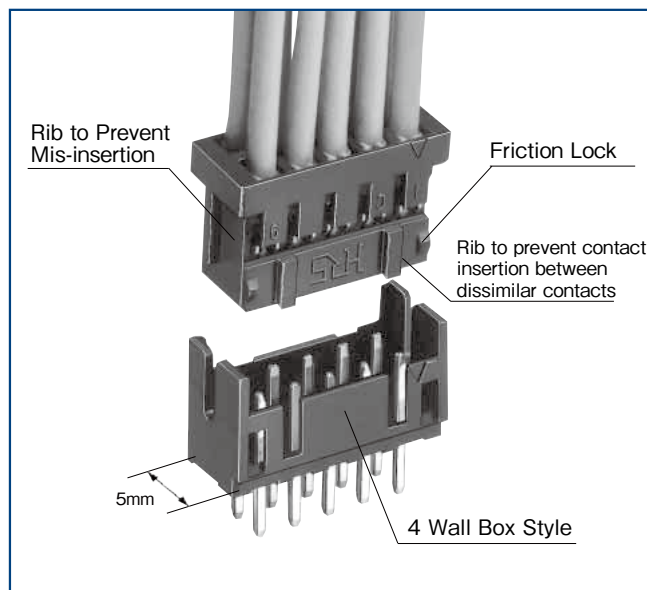


Features

1. Space-saving on Board

Double row contact arrangement with 2mm pitch has been condensed within a 5mm width. Double the number of signals can be secured in the same space as a conventional 2mm single-row connector.



2. Wide Varieties

There are two types of connection methods : insulation displacement and crimping. Variations are available in cable-to-board, in-line, and board-to-board to expand PCB design freedom. Additionally, both gold and tin plating can be selected based on the application and SMT compatible products are also available.

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3. Wide Applicable Wire Range

The double 2mm pitch rows are compact while enabling an applicable wire range of 22 to 30 AWG.

4. The IDC Type enables reduced assembly time

Since the DF11 insulation displacement allows double rows IDC with a single part, harnessing can be completed by machine connection alone.

Applications

Business equipment such as copy machines, printers and so on.

Product Specifications

Ratings	Crimping			Insulation Displacement
Rated Current (Note 1)	22 to 26 AWG	28 AWG	30 AWG	26 AWG
	2A	1A	0.5A	1A
Rated Voltage	250V AC			100V AC
Operating Temperature Range	-30 to +85°C (Note 2)			
Operating Humidity Range	40 to 80% (Note 3)			
Storage Temperature Range	-10 to +60°C (Note 4)			
Storage Humidity Range	40 to 70% (Note 4)			

UL, CSA Safety Standard Approved Specification			
Wire Size	22 AWG	24 to 28 AWG	30 AWG
Rated Current	2A	1A	0.5A
Rated Voltage	30V AC		

■ UL, CSA Safety Standard File No.

UL : E52653

CSA : LR95109

Item	Specification	Condition		
Insulation Resistance	1000M Ω Min.	500V DC		
Withstanding Voltage	No flashover or insulation breakdown.	650V AC for 1 min.		
Contact Resistance	30m Ω Max.	100mA		
Single Insertion/Extraction Force	0.3N (30gf) Min. 4.4N (450gf) Max.	Measured by the square steel pin at 0.5 ± 0.002 mm		
Vibration	No electrical discontinuity of 1 μ s or more	Frequency : 10 to 55Hz, single amplitude of 0.75mm, 2 hours in each of the 3 directions.		
Humidity (Steady State)	Contact Resistance : 30m Ω Max. Insulation Resistance : 500M Ω Min.	96 hours at temperature of $40 \pm 2^\circ\text{C}$ and humidity of 90 to 95%		
Temperature Cycle	Contact Resistance : 30m Ω Max. Insulation Resistance : 1000M Ω Min.	(-55°C : 30 minutes \rightarrow 5 to 35°C : 10 minutes \rightarrow 85°C : 30 minutes \rightarrow 5 to 35°C : 10 minutes) 5 cycles		
Mating Durability	Contact Resistance : 30m Ω Max.	Tin Plated : 30 cycles, Gold Plated : 50 cycles		
Resistance to Soldering Heat	No deformation of components affecting performance.	Through Hole	Flow : 260°C for 10 seconds	Manual soldering : 300°C for 2 seconds
		SMT	Reflow : At the recommended temperature profile	Manual soldering : 300°C for 3 seconds

Note 1 : This is the maximum current rating while all pins are powered or used as all power lines.

When isolating power lines into multiple circuits, current ratings may go above the stated current ratings.

Please consult Hirose for details before doing this. Current rating of header is 2A.

Note 2 : Includes the temperature rise due to current flow.

Note 3 : The connector should be completely dry. (no condensation)

Note 4 : The term "storage" refers to the long-term storage condition of unused products before PCB mounting.

The operating temperature and humidity ranges apply while the connector is in a non-energized state, while in transport or after PCB mounting.

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Material / Finish

Product Type	Part	Material	Finish	Remarks
Crimping Socket	Insulator	Polyamide	Black	UL94V-0
Crimping Contact for Socket	Contact	Phosphor Copper	Tin Plated or Gold Plated	-
IDC Socket	Insulator	Polyamide	Black	UL94V-0
	Contact	Phosphor Copper	Tin Plated	-
Receptacle	Insulator	Polyamide	Black	UL94V-0
	Contact	Phosphor Copper	Tin Plated or Gold Plated	-
Pin Header	Insulator	Polyamide	Black	UL94V-0
	Contact	Brass	Tin Plated or Gold Plated	-
SMT Header	Insulator	Polyamide	Beige	UL94V-0
	Contact	Brass	Tin Plated or Gold Plated	-
	Retention Tab	Brass	Tin Plated	-
In-line Plug	Insulator	Polyamide	Black	UL94V-0
In-line Plug Crimping Contact	Contact	Phosphor Copper	Tin Plated or Gold Plated	-
In-line Adaptor	Insulator	Polyamide	Black	UL94V-0
	Contact	Brass	Tin Plated	-

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Product Number Structure

Refer to the chart below when determining the product specifications from the product number.
Please select from the product numbers listed in this catalog when placing orders.

● Connector

DF11 - # DS - 2 C

① ② ③ ④ ⑤

① Series Name	DF11	⑤ Connection Form/ Contact Style	C : Crimping Socket R26 : IDC Socket for 26 AWG DSA : Straight Through Hole DS : Right Angle Through Hole V : Straight SMT A : Adaptor
② No. of Pos.	4 to 32		
③ Connector Type	DS : Double Row Socket DP : Double Row Pin Header DEP : Double Row In-line Plug		
④ Contact Pitch	2mm		

● Contact

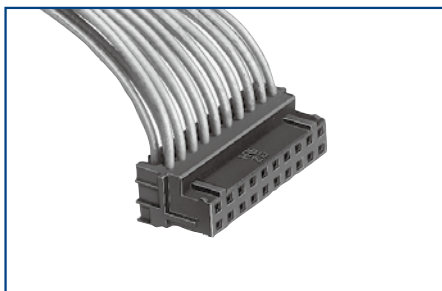
DF11 - EP 2428 PCF A

① ② ③ ④

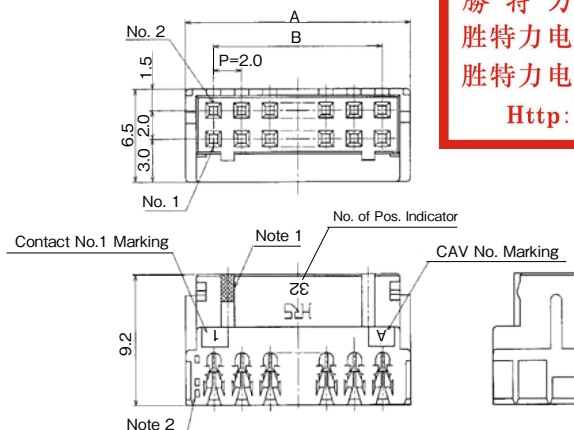
① Contact Type	EP : For In-line Plug	④ Plating Type	Blank : Tin Plated A : Gold Plated
② Applicable Wire Size	22 : 22 AWG 2428 : 24 to 28 AWG 30 : 30 AWG		
③ Contact Type/ Packaging Type	SCF : Socket Contact, Embossed Tape SC : Socket Contact, Bag PCF : Plug Contact, Embossed Tape PC : Plug Contact, Bag		

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IDC Socket



Shown Assembled with Cable



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- Note 1 : Port 1-pcs indicates odd numbered rows,
and port 2-pcs indicate even numbered rows.
- Note 2 : Use the following DIP type headers:
- Straight angle type : DF11-#DP-2DSA(08)
 - Angle type : DF11-#DP-2DS(24)

Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	Purchase Unit
DF11-4DS-2R26(05)	CL0543-0652-0-05	4	6.0	2.0	100pcs per bag
DF11-6DS-2R26(05)	CL0543-0653-3-05	6	8.0	4.0	
DF11-8DS-2R26(05)	CL0543-0654-6-05	8	10.0	6.0	
DF11-10DS-2R26(05)	CL0543-0655-9-05	10	12.0	8.0	
DF11-12DS-2R26(05)	CL0543-0656-1-05	12	14.0	10.0	
DF11-14DS-2R26(05)	CL0543-0657-4-05	14	16.0	12.0	
DF11-16DS-2R26(05)	CL0543-0658-7-05	16	18.0	14.0	
DF11-18DS-2R26(05)	CL0543-0659-0-05	18	20.0	16.0	
DF11-20DS-2R26(05)	CL0543-0660-9-05	20	22.0	18.0	
DF11-22DS-2R26(05)	CL0543-0661-1-05	22	24.0	20.0	
DF11-24DS-2R26(05)	CL0543-0662-4-05	24	26.0	22.0	
DF11-26DS-2R26(05)	CL0543-0663-7-05	26	28.0	24.0	
DF11-28DS-2R26(05)	CL0543-0664-0-05	28	30.0	26.0	
DF11-30DS-2R26(05)	CL0543-0665-2-05	30	32.0	28.0	
DF11-32DS-2R26(05)	CL0543-0666-5-05	32	34.0	30.0	

[Specific No.]
(05) : Tin Plated

■ Applicable Cable

Part No.	Applicable Cable	Jacket Diameter
DF11-#DS-2R26	UL1061 26 AWG (7/0.16mm)	φ 0.9 to 1.05mm

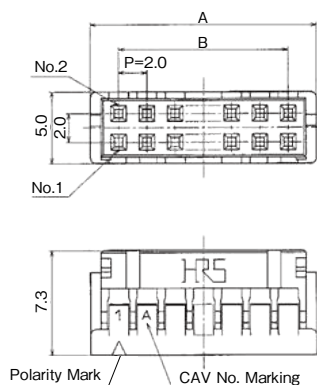
■ DF11-#DS-2R IDC Machine

Type	Part No.	Connection Type	Remarks
Desktop IDC Machine	SA700/DF11 CL0903-0013-5-00	Used for DF11 only, No restricted condition	Desktop machine for small lot

Crimping Socket



Shown Assembled with Cable

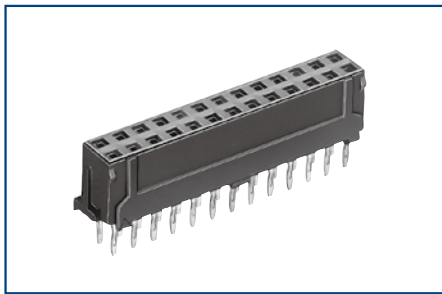


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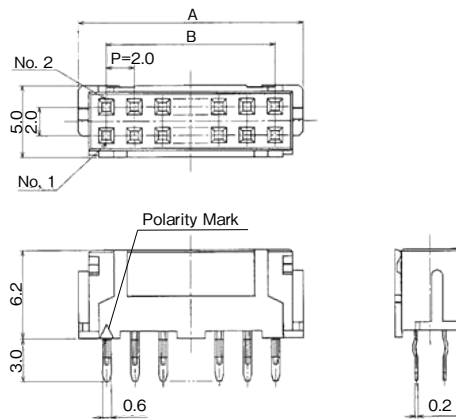
Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	Purchase Unit
DF11-4DS-2C	CL0543-0568-6-00	4	6.0	2.0	100pcs per bag
DF11-6DS-2C	CL0543-0502-8-00	6	8.0	4.0	
DF11-8DS-2C	CL0543-0503-0-00	8	10.0	6.0	
DF11-10DS-2C	CL0543-0504-3-00	10	12.0	8.0	
DF11-12DS-2C	CL0543-0505-6-00	12	14.0	10.0	
DF11-14DS-2C	CL0543-0506-9-00	14	16.0	12.0	
DF11-16DS-2C	CL0543-0507-1-00	16	18.0	14.0	
DF11-18DS-2C	CL0543-0508-4-00	18	20.0	16.0	
DF11-20DS-2C	CL0543-0509-7-00	20	22.0	18.0	
DF11-22DS-2C	CL0543-0510-6-00	22	24.0	20.0	
DF11-24DS-2C	CL0543-0511-9-00	24	26.0	22.0	
DF11-26DS-2C	CL0543-0512-1-00	26	28.0	24.0	
DF11-28DS-2C	CL0543-0513-4-00	28	30.0	26.0	
DF11-30DS-2C	CL0543-0514-7-00	30	32.0	28.0	
DF11-32DS-2C	CL0543-0515-0-00	32	34.0	30.0	

Receptacle (Through Hole)



- Board Through-hole Diameter : $\phi 0.8^{+0.1}_0$
- Diameter of Board Hole for Kink Pin Securing : $\phi 0.8^{+0.05}_0$



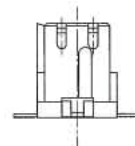
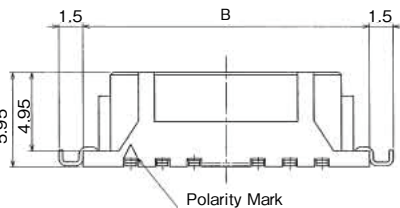
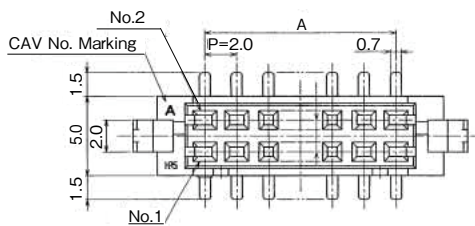
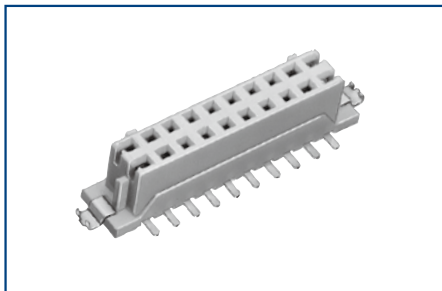
Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	Purchase Unit
DF11-6DS-2DSA(##)	CL0543-0553-9-##	6	8.0	4.0	100pcs per bag
DF11-8DS-2DSA(##)	CL0543-0554-1-##	8	10.0	6.0	
DF11-10DS-2DSA(##)	CL0543-0555-4-##	10	12.0	8.0	
DF11-12DS-2DSA(##)	CL0543-0556-7-##	12	14.0	10.0	
DF11-14DS-2DSA(##)	CL0543-0557-0-##	14	16.0	12.0	
DF11-16DS-2DSA(##)	CL0543-0558-2-##	16	18.0	14.0	
DF11-18DS-2DSA(##)	CL0543-0559-5-##	18	20.0	16.0	
DF11-20DS-2DSA(##)	CL0543-0560-4-##	20	22.0	18.0	
DF11-22DS-2DSA(##)	CL0543-0561-7-##	22	24.0	20.0	
DF11-24DS-2DSA(##)	CL0543-0562-0-##	24	26.0	22.0	
DF11-26DS-2DSA(##)	CL0543-0563-2-##	26	28.0	24.0	
DF11-28DS-2DSA(##)	CL0543-0564-5-##	28	30.0	26.0	
DF11-30DS-2DSA(##)	CL0543-0565-8-##	30	32.0	28.0	
DF11-32DS-2DSA(##)	CL0543-0566-0-##	32	34.0	30.0	

[Specific No.] -##.(##)
 (05) : Tin Plated
 (06) : Gold Plated

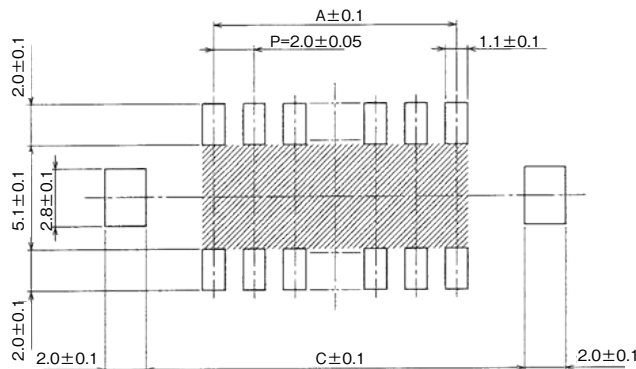
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Receptacle (SMT)



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PCB Mounting Pattern



Note : If the shaded area has a pattern and is not treated with resist it may touch the connector contact.

Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	C	Purchase Unit
DF11CZ-4DS-2V(##)	CL0543-2063-0-##	4	2.0	8.5	8.7	500pcs per reel
DF11CZ-6DS-2V(##)	CL0543-2064-3-##	6	4.0	10.5	10.7	
DF11CZ-8DS-2V(##)	CL0543-2065-6-##	8	6.0	12.5	12.7	
DF11CZ-10DS-2V(##)	CL0543-2066-9-##	10	8.0	14.5	14.7	
DF11CZ-12DS-2V(##)	CL0543-2067-1-##	12	10.0	16.5	16.7	
DF11CZ-14DS-2V(##)	CL0543-2068-4-##	14	12.0	18.5	18.7	
DF11CZ-16DS-2V(##)	CL0543-2069-7-##	16	14.0	20.5	20.7	
DF11CZ-18DS-2V(##)	CL0543-2070-6-##	18	16.0	22.5	22.7	
DF11CZ-20DS-2V(##)	CL0543-2071-9-##	20	18.0	24.5	24.7	
DF11CZ-22DS-2V(##)	CL0543-2072-1-##	22	20.0	26.5	26.7	
DF11CZ-24DS-2V(##)	CL0543-2073-4-##	24	22.0	28.5	28.7	
DF11CZ-26DS-2V(##)	CL0543-2074-7-##	26	24.0	30.5	30.7	
DF11CZ-28DS-2V(##)	CL0543-2075-0-##	28	26.0	32.5	32.7	
DF11CZ-30DS-2V(##)	CL0543-2076-2-##	30	28.0	34.5	34.7	
DF11CZ-40DS-2V(##)	CL0543-0584-2-##	40	38.0	44.5	44.7	

[Specific No.] -##, (##)

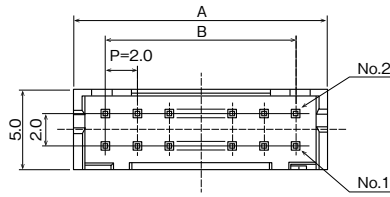
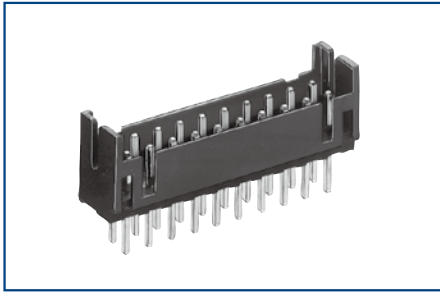
(22) : Tin Plated Embossed Tape Packaging (with Vacuum Pick-up Cap)

(52) : Gold Plated Embossed Tape Packaging (with Vacuum Pick-up Cap)

Note 1 : The 40pos. connector can only be combined with SMT products.

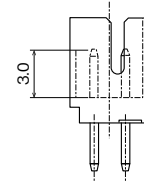
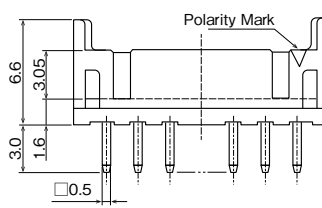
Note 2 : Embossed packaging products have the reel wrapped in polyethylene and include a desiccant.

Straight Pin Header



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● Board Through-hole Diameter : $\phi 0.8^{+0.1}_0$

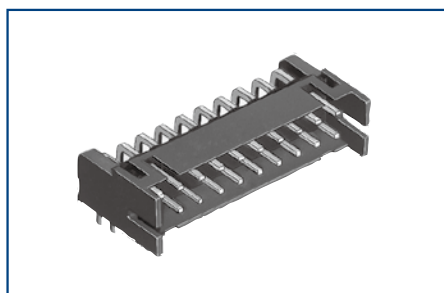


Unit : mm

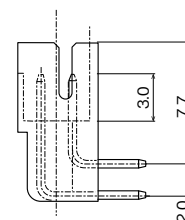
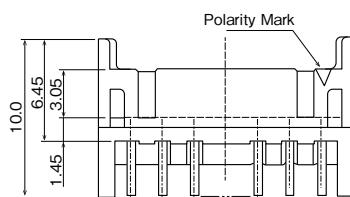
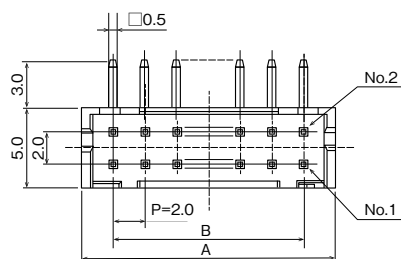
Part No.	HRS No.	No. of Pos.	A	B	Purchase Unit (##) : (01)	Purchase Unit (##) : (08)	Purchase Unit (##) : (24)
DF11-4DP-2DSA(##)	CL0543-0517-5-##	4	6.0	2.0	100pcs per bag	100pcs per bag	81pcs per tube
DF11-6DP-2DSA(##)	CL0543-0518-8-##	6	8.0	4.0			61pcs per tube
DF11-8DP-2DSA(##)	CL0543-0519-0-##	8	10.0	6.0			49pcs per tube
DF11-10DP-2DSA(##)	CL0543-0520-0-##	10	12.0	8.0			40pcs per tube
DF11-12DP-2DSA(##)	CL0543-0521-2-##	12	14.0	10.0			34pcs per tube
DF11-14DP-2DSA(##)	CL0543-0522-5-##	14	16.0	12.0			30pc per tube
DF11-16DP-2DSA(##)	CL0543-0523-8-##	16	18.0	14.0			27pcs per tube
DF11-18DP-2DSA(##)	CL0543-0524-0-##	18	20.0	16.0			24pcs per tube
DF11-20DP-2DSA(##)	CL0543-0525-3-##	20	22.0	18.0			22pcs per tube
DF11-22DP-2DSA(##)	CL0543-0526-6-##	22	24.0	20.0			20pcs per tube
DF11-24DP-2DSA(##)	CL0543-0527-9-##	24	26.0	22.0			18pcs per tube
DF11-26DP-2DSA(##)	CL0543-0528-1-##	26	28.0	24.0			17pcs per tube
DF11-28DP-2DSA(##)	CL0543-0529-4-##	28	30.0	26.0			16pcs per tube
DF11-30DP-2DSA(##)	CL0543-0530-3-##	30	32.0	28.0			15pcs per tube
DF11-32DP-2DSA(##)	CL0543-0531-6-##	32	34.0	30.0			14pcs per tube

[Specific No.] -##,(##)
 (01) : Gold Plated
 (08) : Tin Plated
 (24) : Tin Plated

Right Angle Pin Header



● Board Through-hole Diameter : $\phi 0.8^{+0.1}_0$



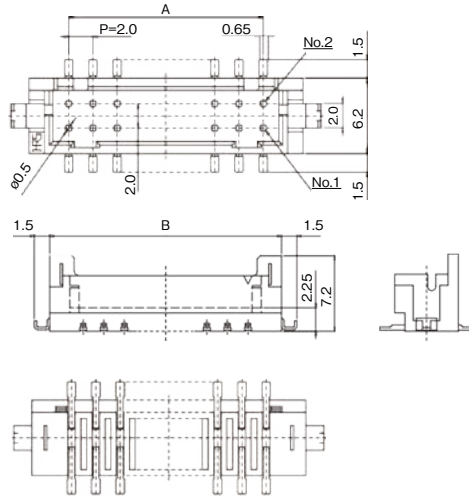
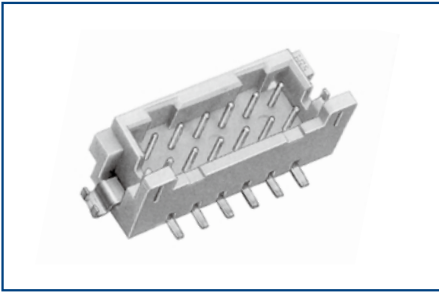
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Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	Purchase Unit
DF11-4DP-2DS(##)	CL0543-0533-1-##	4	6.0	2.0	81pcs per tube
DF11-6DP-2DS(##)	CL0543-0534-4-##	6	8.0	4.0	61pcs per tube
DF11-8DP-2DS(##)	CL0543-0535-7-##	8	10.0	6.0	48pcs per tube
DF11-10DP-2DS(##)	CL0543-0536-0-##	10	12.0	8.0	40pcs per tube
DF11-12DP-2DS(##)	CL0543-0537-2-##	12	14.0	10.0	34pcs per tube
DF11-14DP-2DS(##)	CL0543-0538-5-##	14	16.0	12.0	30pcs per tube
DF11-16DP-2DS(##)	CL0543-0539-8-##	16	18.0	14.0	27pcs per tube
DF11-18DP-2DS(##)	CL0543-0540-7-##	18	20.0	16.0	24pcs per tube
DF11-20DP-2DS(##)	CL0543-0541-0-##	20	22.0	18.0	22pcs per tube
DF11-22DP-2DS(##)	CL0543-0542-2-##	22	24.0	20.0	20pcs per tube
DF11-24DP-2DS(##)	CL0543-0543-5-##	24	26.0	22.0	18pcs per tube
DF11-26DP-2DS(##)	CL0543-0544-8-##	26	28.0	24.0	17pcs per tube
DF11-28DP-2DS(##)	CL0543-0545-0-##	28	30.0	26.0	16pcs per tube
DF11-30DP-2DS(##)	CL0543-0546-3-##	30	32.0	28.0	15pcs per tube
DF11-32DP-2DS(##)	CL0543-0547-6-##	32	34.0	30.0	14pcs per tube

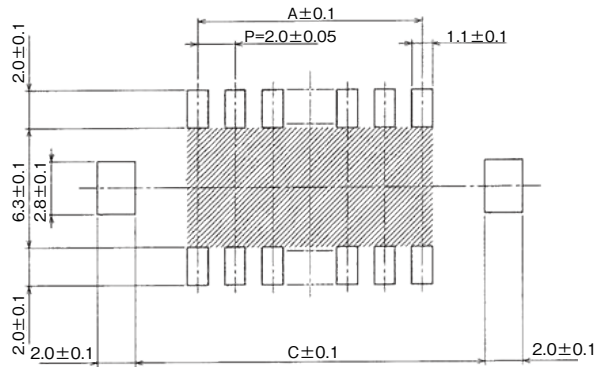
[Specific No.] -##,(##)
 (24) : Tin Plated
 (52) : Gold Plated

Straight Pin Header (SMT)



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PCB Mounting Pattern



Note : If the shaded area has a pattern and is not treated with resist it may touch the connector contact.

Tin Plated		Gold Plated		No. of Pos.	A	B	C	Purchase Unit
Part No.	HRS No.	Part No.	HRS No.					
DF11CZ-4DP-2V(27)	CL0543-2047-4-27	DF11C-4DP-2V(57)	CL0543-0682-1-57	4	2.0	8.5	8.7	500pcs per reel
DF11CZ-6DP-2V(27)	CL0543-2048-7-27	DF11C-6DP-2V(57)	CL0543-0683-4-57	6	4.0	10.5	10.7	
DF11CZ-8DP-2V(27)	CL0543-2049-0-27	DF11C-8DP-2V(57)	CL0543-0684-7-57	8	6.0	12.5	12.7	
DF11CZ-10DP-2V(27)	CL0543-2050-9-27	DF11C-10DP-2V(57)	CL0543-0685-0-57	10	8.0	14.5	14.7	
DF11CZ-12DP-2V(27)	CL0543-2051-1-27	DF11C-12DP-2V(57)	CL0543-0686-2-57	12	10.0	16.5	16.7	
DF11CZ-14DP-2V(27)	CL0543-2052-4-27	DF11C-14DP-2V(57)	CL0543-0687-5-57	14	12.0	18.5	18.7	
DF11CZ-16DP-2V(27)	CL0543-2053-7-27	DF11C-16DP-2V(57)	CL0543-0688-8-57	16	14.0	20.5	20.7	
DF11CZ-18DP-2V(27)	CL0543-2054-0-27	DF11C-18DP-2V(57)	CL0543-0689-0-57	18	16.0	22.5	22.7	
DF11CZ-20DP-2V(27)	CL0543-2055-2-27	DF11C-20DP-2V(57)	CL0543-0690-0-57	20	18.0	24.5	24.7	
DF11CZ-22DP-2V(27)	CL0543-2056-5-27	DF11C-22DP-2V(57)	CL0543-0691-2-57	22	20.0	26.5	26.7	
DF11CZ-24DP-2V(27)	CL0543-2057-8-27	DF11C-24DP-2V(57)	CL0543-0692-5-57	24	22.0	28.5	28.7	
DF11CZ-26DP-2V(27)	CL0543-2058-0-27	DF11C-26DP-2V(57)	CL0543-0693-8-57	26	24.0	30.5	30.7	
DF11CZ-28DP-2V(27)	CL0543-2059-3-27	DF11C-28DP-2V(57)	CL0543-0694-0-57	28	26.0	32.5	32.7	
DF11CZ-30DP-2V(27)	CL0543-2060-2-27	DF11C-30DP-2V(57)	CL0543-0695-3-57	30	28.0	34.5	34.7	
DF11CZ-32DP-2V(27)	CL0543-2061-5-27	DF11C-32DP-2V(57)	CL0543-0696-6-57	32	30.0	36.5	36.7	
DF11CZ-40DP-2V(27)	CL0543-2062-8-27	DF11C-40DP-2V(57)	CL0543-0697-9-57	40	38.0	44.5	44.7	

[Specific No.] -##.(##)

(27) : Tin Plated Embossed Tape Packaging (with Vacuum Pick-up Cap)

(57) : Gold Plated Embossed Tape Packaging (with Vacuum Pick-up Cap)

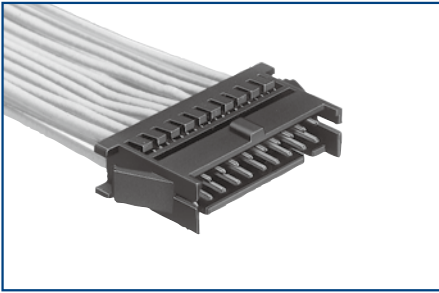
Note 1 : The 40pos. connector can only be combined with SMT products.

Note 2 : Embossed packaging products have the reel wrapped in polyethylene and include a desiccant.

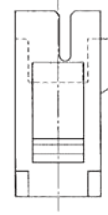
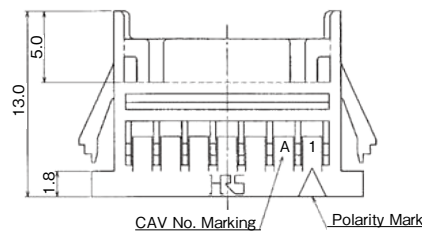
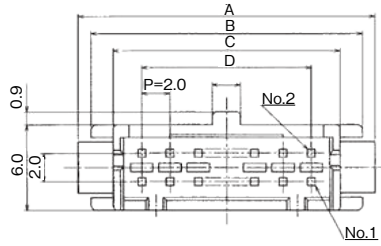
Note 3 : There may be blisters on the mold surfaces excluding the mating face during mounting. However this does not affect the product performance.

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In-line Plug

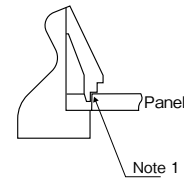
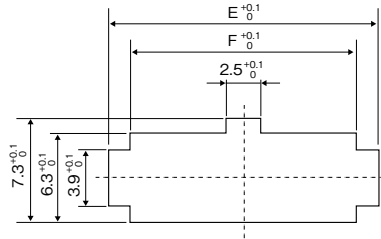


Shown Assembled with Cable



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In-line Plug Panel Cutouts



Note 1 : Please use the non-radius side for the panel hooking area.

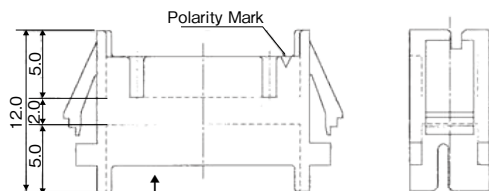
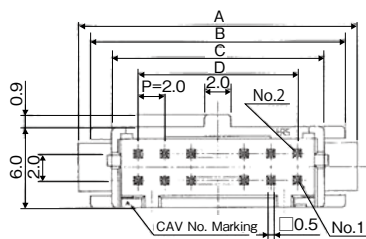
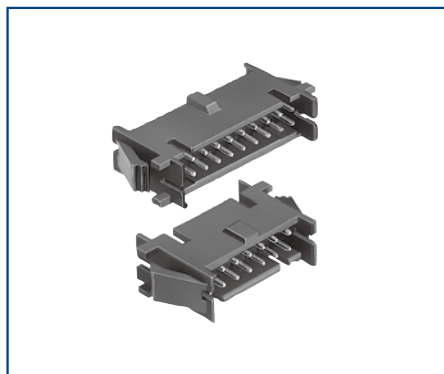
Note 2 : Applicable panel thickness is 1.6 to 1.0mm

(Slight misalignment may occur for the panel thicknesses excluding 1.6 and 1.2mm.)

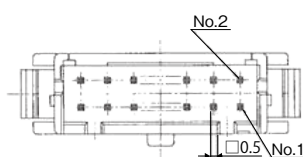
Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	C	D	E	F	Purchase Unit
DF11-4DEP-2C	CL0543-0619-5-00	4	11.0	9.2	6.0	2.0	9.4	6.3	100pcs per bag
DF11-6DEP-2C	CL0543-0620-4-00	6	13.0	11.2	8.0	4.0	11.4	8.3	
DF11-8DEP-2C	CL0543-0621-7-00	8	15.0	13.2	10.0	6.0	13.4	10.3	
DF11-10DEP-2C	CL0543-0622-0-00	10	17.0	15.2	12.0	8.0	15.4	12.3	
DF11-12DEP-2C	CL0543-0623-2-00	12	19.0	17.2	14.0	10.0	17.4	14.3	
DF11-14DEP-2C	CL0543-0624-5-00	14	21.0	19.2	16.0	12.0	19.4	16.3	
DF11-16DEP-2C	CL0543-0625-8-00	16	23.0	21.2	18.0	14.0	21.4	18.3	
DF11-18DEP-2C	CL0543-0626-0-00	18	25.0	23.2	20.0	16.0	23.4	20.3	
DF11-20DEP-2C	CL0543-0627-3-00	20	27.0	25.2	22.0	18.0	25.4	22.3	
DF11-22DEP-2C	CL0543-0628-6-00	22	29.0	27.2	24.0	20.0	27.4	24.3	
DF11-24DEP-2C	CL0543-0629-9-00	24	31.0	29.2	26.0	22.0	29.4	26.3	
DF11-26DEP-2C	CL0543-0630-8-00	26	33.0	31.2	28.0	24.0	31.4	28.3	
DF11-28DEP-2C	CL0543-0631-0-00	28	35.0	33.2	30.0	26.0	33.4	30.3	
DF11-30DEP-2C	CL0543-0632-3-00	30	37.0	35.2	32.0	28.0	35.4	32.3	
DF11-32DEP-2C	CL0543-0633-6-00	32	39.0	37.2	34.0	30.0	37.4	34.3	

In-line Adaptor

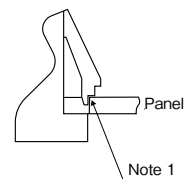
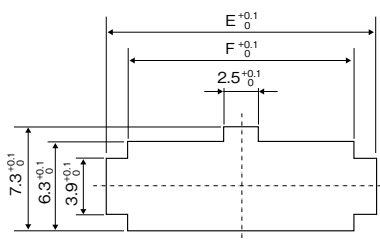


Note : The insertion and extraction force is higher on this side.



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In-line Adaptor Panel Cutouts



Note 1 : Please use the non-radius surface in the panel hooking area.

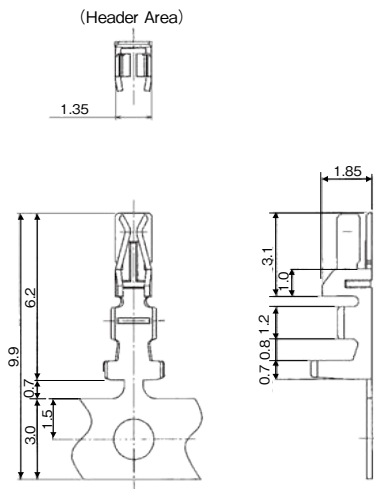
Note 2 : Applicable panel thickness is 1.6 to 1.0mm

(Slight misalignment may occur for the panel thicknesses excluding 1.6 and 1.2mm.)

Part No.	HRS No.	No. of Pos.	A	B	C	D	E	F	Purchase Unit
DF11-4DEP-2A	CL0543-0698-1-00	4	11.0	9.2	6.0	2.0	9.4	6.3	100pcs per bag
DF11-6DEP-2A	CL0543-0699-4-00	6	13.0	11.2	8.0	4.0	11.4	8.3	
DF11-8DEP-2A	CL0543-0700-1-00	8	15.0	13.2	10.0	6.0	13.4	10.3	
DF11-10DEP-2A	CL0543-0701-4-00	10	17.0	15.2	12.0	8.0	15.4	12.3	
DF11-12DEP-2A	CL0543-0702-7-00	12	19.0	17.2	14.0	10.0	17.4	14.3	
DF11-14DEP-2A	CL0543-0703-0-00	14	21.0	19.2	16.0	12.0	19.4	16.3	
DF11-16DEP-2A	CL0543-0704-2-00	16	23.0	21.2	18.0	14.0	21.4	18.3	
DF11-18DEP-2A	CL0543-0705-5-00	18	25.0	23.2	20.0	16.0	23.4	20.3	
DF11-20DEP-2A	CL0543-0706-8-00	20	27.0	25.2	22.0	18.0	25.4	22.3	
DF11-22DEP-2A	CL0543-0707-0-00	22	29.0	27.2	24.0	20.0	27.4	24.3	
DF11-24DEP-2A	CL0543-0708-3-00	24	31.0	29.2	26.0	22.0	29.4	26.3	
DF11-26DEP-2A	CL0543-0709-6-00	26	33.0	31.2	28.0	24.0	31.4	28.3	
DF11-28DEP-2A	CL0543-0710-5-00	28	35.0	33.2	30.0	26.0	33.4	30.3	
DF11-30DEP-2A	CL0543-0711-8-00	30	37.0	35.2	32.0	28.0	35.4	32.3	
DF11-32DEP-2A	CL0543-0712-0-00	32	39.0	37.2	34.0	30.0	37.4	34.3	

Unit : mm

Crimping Contact for Socket



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◆ Reel Contact (Applicable Tool : Applicator)

Part No.	HRS No.	Finish	Purchase Unit	Applicable Wire (Tin Plated Annealed Copper Wire) (Note 2)				
				UL	Wire Size	Standed Wire Conductor	Calculated Cross-section	Jacket Outer Dia.
DF11-22SCF	CL0543-0601-0-00	Tin Plated	10,000pcs per reel	1061	22 AWG	17 / 0.16mm	0.342mm ²	1.2 to 1.45mm
DF11-22SCFA(04)	CL0543-0603-5-04	Gold Plated		1061	22 AWG	17 / 0.16mm	0.342mm ²	1.2 to 1.45mm
DF11-2428SCF	CL0543-0500-2-00	Tin Plated		1061, 1007	24 AWG 26 AWG 28 AWG	11 / 0.16mm 7 / 0.16mm 7 / 0.127mm	0.221mm ² 0.141mm ² 0.089mm ²	0.9 to 1.45mm
DF11A-2428SCF (Note 1)	CL0543-0634-9-00	Tin Plated		1061, 1007	24 AWG 26 AWG 28 AWG	11 / 0.16mm 7 / 0.16mm 7 / 0.127mm	0.221mm ² 0.141mm ² 0.089mm ²	0.9 to 1.45mm
DF11-2428SCFA(04)	CL0543-0550-0-04	Gold Plated		1061, 1007	24 AWG 26 AWG 28 AWG	11 / 0.16mm 7 / 0.16mm 7 / 0.127mm	0.221mm ² 0.141mm ² 0.089mm ²	0.9 to 1.45mm
DF11-30SCF	CL0543-0605-0-00	Tin Plated		1061, 1007	30 AWG	7 / 0.1mm	0.055mm ²	0.75 to 1.2mm
DF11-30SCFA(04)	CL0543-0607-6-04	Gold Plated		1061, 1007	30 AWG	7 / 0.1mm	0.055mm ²	0.75 to 1.2mm

● Strip Length : 1.7 to 2.3mm

Note 1 : DF11A-2428SCF is the low insertion/extraction tin plated type.

Note 2 : Contact your Hirose representative if considering use of non-specified cables.

Note 3 : The strip length is a reference value. Adjust so that each dimension after crimping meets the specified value.

Refer to the Crimp Quality Standard (ETAD-H0773-00) for details.

◆ Loose Contact (Applicable Tool : Hand Crimping Tool)

Part No.	HRS No.	Finish	Purchase Unit	Applicable Wire (Tin Plated Annealed Copper Wire) (Note 2)				
				UL	Wire Size	Standed Wire Conductor	Calculated Cross-section	Jacket Outer Dia.
DF11-22SC	CL0543-0602-2-00	Tin Plated	100pcs per bag	1061	22 AWG	17 / 0.16mm	0.342mm ²	1.3mm
DF11-22SCA	CL0543-0604-8-00	Gold Plated		1061	22 AWG	17 / 0.16mm	0.342mm ²	1.3mm
DF11-2428SC	CL0543-0501-5-00	Tin Plated		1061	24 AWG	11 / 0.16mm	0.221mm ²	1.1mm
					26 AWG	7 / 0.16mm	0.141mm ²	1.0mm
DF11-2428SC	CL0543-0501-5-00	Tin Plated		1061	28 AWG	7 / 0.127mm	0.089mm ²	0.9mm
					1007	24 AWG	11 / 0.16mm	0.221mm ²
DF11-2428SC	CL0543-0501-5-00	Tin Plated		1007	26 AWG	7 / 0.16mm	0.141mm ²	1.3mm
					28 AWG	7 / 0.127mm	0.089mm ²	1.2mm
DF11A-2428SC (Note 1)	CL0543-0635-1-00	Tin Plated		1061	24 AWG	11 / 0.16mm	0.221mm ²	1.1mm
					26 AWG	7 / 0.16mm	0.141mm ²	1.0mm
DF11A-2428SC (Note 1)	CL0543-0635-1-00	Tin Plated		1061	28 AWG	7 / 0.127mm	0.089mm ²	0.9mm
					1007	24 AWG	11 / 0.16mm	0.221mm ²
DF11-2428SCA	CL0543-0551-3-00	Gold Plated	1007	26 AWG	7 / 0.16mm	0.141mm ²	1.3mm	
				28 AWG	7 / 0.127mm	0.089mm ²	1.2mm	
DF11-30SC	CL0543-0606-3-00	Tin Plated	1061	30 AWG	7 / 0.1mm	0.055mm ²	0.8mm	
DF11-30SCA	CL0543-0608-9-00	Gold Plated	1061	30 AWG	7 / 0.1mm	0.055mm ²	0.8mm	

Note 1 : DF11A-2428SC is the low insertion/extraction tin plated type.

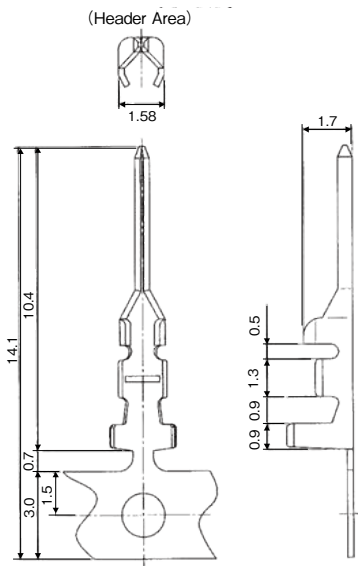
Note 2 : When crimping using a hand crimping tool, only the above wires are applicable.

Note 3 : The strip length is a reference value. Adjust so that each dimension after crimping meets the specified value.

Refer to the Crimp Quality Standard (ETAD-H0773-00) for details.

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Crimping Contact for In-line Plug



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◆ Reel Contact (Applicable Tool : Applicator)

Part No.	HRS No.	Finish	Purchase Unit	Applicable Wire (Tin Plated Annealed Copper Wire) (Note 1)				
				UL	Wire Size	Standed Wire Conductor	Calculated Cross-section	Jacket Outer Dia.
DF11-EP2428PCF	CL0543-0615-4-00	Tin Plated	10,000pcs per reel	1061, 1007	24 AWG	11 / 0.16mm	0.221mm ²	0.9 to 1.45mm
					26 AWG	7 / 0.16mm	0.141mm ²	
DF11-EP2428PCFA	CL0543-0617-0-00	Gold Plated	10,000pcs per reel	1061, 1007	24 AWG	11 / 0.16mm	0.221mm ²	0.9 to 1.45mm
					26 AWG	7 / 0.16mm	0.141mm ²	
					28 AWG	7 / 0.127mm	0.089mm ²	

● Strip Length : 1.9 to 2.3mm

Note 1 : Contact your Hirose representative if considering use of non-specified cables.

Note 2 : The strip length is a reference value. Adjust so that each dimension after crimping meets the specified value. Refer to the Crimp Quality Standard (ETAD-H0935-00) for details.

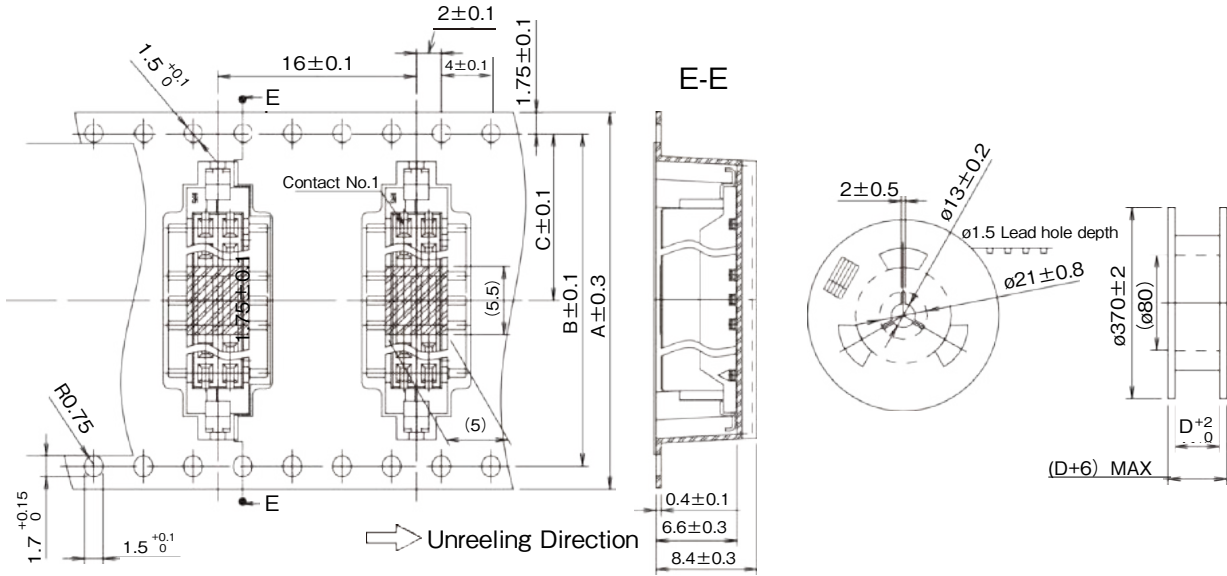
◆ Loose Contact (Applicable Tool : Hand Crimping Tool)

Part No.	HRS No.	Finish	Purchase Unit	Applicable Wire (Tin Plated Annealed Copper Wire) (Note 1)				
				UL	Wire Size	Standed Wire Conductor	Calculated Cross-section	Jacket Outer Dia.
DF11-EP2428PC	CL0543-0616-7-00	Tin Plated	100pcs per bag	1007	24 AWG	11 / 0.16mm	0.221mm ²	1.45mm
					26 AWG	7 / 0.16mm	0.141mm ²	1.3mm
					28 AWG	7 / 0.127mm	0.089mm ²	1.2mm
DF11-EP2428PCA	CL0543-0618-2-00	Gold Plated	100pcs per bag	1007	24 AWG	11 / 0.16mm	0.221mm ²	1.45mm
					26 AWG	7 / 0.16mm	0.141mm ²	1.3mm
					28 AWG	7 / 0.127mm	0.089mm ²	1.2mm

Note 1 : When crimping using a hand crimping tool, only the above wires are applicable.

Note 2 : The strip length is a reference value. Adjust so that each dimension after crimping meets the specified value. Refer to the Crimp Quality Standard (ETAD-H0935-00) for details.

● Receptacle (SMT)

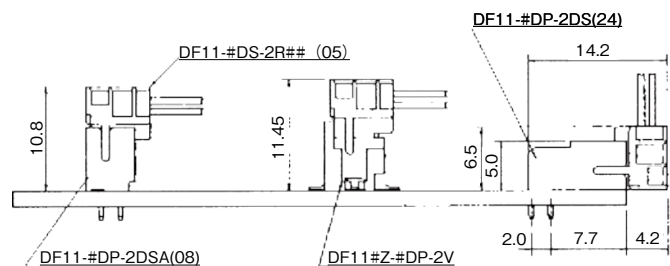


Unit : mm

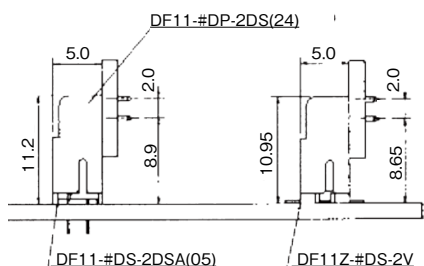
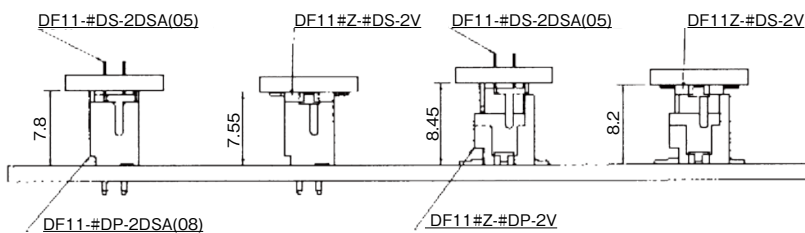
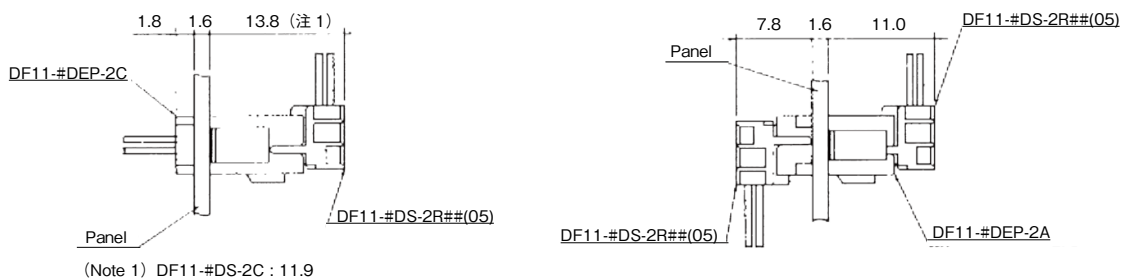
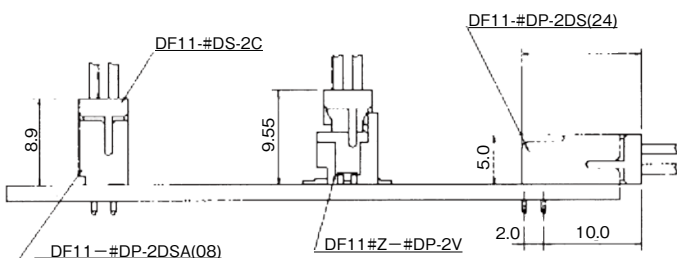
Product Type	No. of Pos.	A	B	C	D
DF11CZ-##DS-2V	4 to 8	24.0	-	11.5	24.4
	10 to 12	32.0	28.4	14.2	32.4
	14 to 18	44.0	40.4	20.2	44.4
	20	56.0	52.4	26.2	56.4
	22	44.0	40.4	20.2	44.4
	24 to 32	56.0	52.4	26.2	56.4
	40	72.0	68.4	34.2	72.4

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