

DF1B Series Connectors for Discrete Wire Connection - 2.5mm Pitch (Cont.)

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
12	34	45	40	H3824-ND	.53	7.90	24.74	DF1B-34DS-2.5RC
	36	47.5	42.5	H3825-ND	.43	7.79	25.48	DF1B-36DS-2.5RC
	40	52.5	47.5	H3826-ND	.45	8.09	26.46	DF1B-40DS-2.5RC
Double Row - In-Line (full lock type)								
13	10	15	10	H3754-ND	.63	11.48	37.57	DF1B-10DES-2.5RC
	12	17.5	12.5	H3755-ND	.66	11.98	39.20	DF1B-12DES-2.5RC
	14	20	15	H3756-ND	.69	12.48	40.84	DF1B-14DES-2.5RC
	16	22.5	17.5	H3757-ND	.72	12.98	42.47	DF1B-16DES-2.5RC
	18	25	20	H3758-ND	.77	13.98	45.74	DF1B-18DES-2.5RC
	20	27.5	22.5	H3759-ND	.80	14.48	47.37	DF1B-20DES-2.5RC
	22	30	25	H3760-ND	.83	14.98	49.01	DF1B-22DES-2.5RC
	24	32.5	27.5	H3761-ND	.86	15.47	50.64	DF1B-24DES-2.5RC
	26	35	30	H3762-ND	.91	16.47	53.91	DF1B-26DES-2.5RC
	28	37.5	32.5	H3763-ND	.97	17.47	57.17	DF1B-28DES-2.5RC
	30	40	35	H3764-ND	.99	17.97	58.81	DF1B-30DES-2.5RC
	32	42.5	37.5	H3765-ND	1.02	18.47	60.44	DF1B-32DES-2.5RC
	34	45	40	H3766-ND	1.05	18.97	62.07	DF1B-34DES-2.5RC

Crimping Contacts

AWG	Digi-Key Part No.	Loose Piece Pricing			Hirose Part No.	Cut Tape* Pricing			T & R † Pricing	Hirose Part No.
		1	25	100		1,000	3,000	10,000		
Plug Contacts — RoHS Compliant										
Tin Plating										
20-22	H3827-ND	.18	1.98	5.59	DF1B-2022PC	34.85	32.53/M	21.06/M	DF1B-2022PCF	
24-28	H3831-ND	.20	2.09	5.18	DF1B-2428PC	29.40	27.45/M	17.43/M	DF1B-2428PCF	
30	H3847-ND	.17	1.84	5.19	DF1B-30PC	32.67	30.50/M	18.88/M	DF1B-30PCF	
Gold Plating										
20-22	H3829-ND	.33	4.01	11.98	DF1B-2022PCB	71.15	68.61/M	51.55/M	DF1B-2022PCFB	
24-28	H3833-ND	.45	6.75	21.16	DF1-PD2428SCB	125.45	123.60/M	68.97/M	DF1-PD2428SCFB	
30	H3849-ND	.36	4.32	12.89	DF1B-30PCB	76.23	73.51/M	55.18/M	DF1B-30PCFB	
Socket Contacts — RoHS Compliant										
Tin Plating										
20-22	H3828-ND	.17	1.82	4.50	DF1B-2022SC	27.88	25.27/M	14.52/M	DF1B-2022SCF	
24-28	H3832-ND	.17	1.82	4.50	DF1B-2428SC	27.88	25.27/M	14.52/M	DF1B-2428SCF	
30	H3848-ND	.17	1.82	4.50	DF1B-30SC	27.88	25.27/M	14.52/M	DF1B-30SCF	
Gold Plating										
20-22	H3830-ND	.25	3.04	9.08	DF1B-2022SCA	54.89	52.93/M	38.48/M	DF1B-2022SCFA	
24-28	H3834-ND	.22	2.61	7.80	DF1B-2428SCA	47.77	46.07/M	29.77/M	DF1B-2428SCFA	
30	H3850-ND	.22	2.61	7.80	DF1B-30SCA	47.77	46.07/M	29.77/M	DF1B-30SCFA	

* For Cut Tape, add CT to the Digi-Key Part No. † For Tape and Reel, add TR to the Digi-Key Part No.

ID Contacts

AWG	Digi-Key Part No.	Loose Piece Pricing			Hirose Part No.	Cut Tape* Pricing			T & R † Pricing	Hirose Part No.
		1	25	100		1,000	3,000	5,000		
Plug Contacts — RoHS Compliant										
Tin Plating										
24	H3835-ND	.20	2.19	6.19	DF1B-24PR	38.12	35.58/M	33.04/M	23.96/M	DF1B-24PRF
26	H3839-ND	.19	2.05	5.79	DF1B-26PR	35.94	33.54/M	31.15/M	21.06/M	DF1B-26PRF
28	H3843-ND	.19	2.05	5.79	DF1B-28PR	35.94	33.54/M	31.15/M	21.06/M	DF1B-28PRF
Gold Plating										
24	H3837-ND	.23	2.68	7.99	DF1B-24PRB	43.71	42.15/M	39.81/M	—	DF1B-24PRFB
26	H3841CT-ND	—	—	—	—	43.71	42.15/M	39.81/M	—	DF1B-26PRFB
28	H3845-ND	.25	2.76	7.79	DF1B-28PRB	43.71	42.15/M	39.81/M	32.67/M	DF1B-28PRFB
Socket Contacts										
Tin Plating — RoHS Compliant										
24	H3836-ND	.14	1.45	3.60	DF1B-R24	23.23	21.06/M	19.61/M	14.52/M	DF1B-R24F
26	H3840-ND	.14	1.45	3.60	DF1B-R26	23.23	21.06/M	19.61/M	13.07/M	DF1B-R26F
28	H3844-ND	.14	1.45	3.60	DF1B-R28	23.23	21.06/M	19.61/M	13.07/M	DF1B-R28F
Gold Plating										
24	H3838CT-ND	—	—	—	—	58.95	56.85/M	53.69/M	—	DF1B-R24FA
26	H3842-ND	.28	3.28	9.80	DF1B-R26A	58.95	56.85/M	53.69/M	—	DF1B-R26FA
28	H3846-ND	.28	3.28	9.80	DF1B-R28A	58.95	56.85/M	53.69/M	—	DF1B-R28FA
Gold Plating — RoHS Compliant										
24	H11098-ND	.29	3.46	10.35	DF1B-R24A(06)	62.00	59.79/M	56.47/M	47.19/M	DF1B-R24FA(06)
26	H11099-ND	.29	3.46	10.35	DF1B-R26A(06)	62.00	59.79/M	56.47/M	47.19/M	DF1B-R26FA(06)
28	H11100-ND	.29	3.46	10.35	DF1B-R28A(06)	62.00	59.79/M	56.47/M	47.19/M	DF1B-R28FA(06)

* For Cut Tape, add CT to the Digi-Key Part No. † For Tape and Reel, add TR to the Digi-Key Part No.

Tools

Description	Digi-Key Part No.	1	Pricing	25	100	Hirose Part No.
Manual ID Tools						
24-28AWG, Plug	H9934-ND	752.21	—	—	—	DF1B-T2428HPR
24-28AWG, Socket	H9933-ND	596.48	—	—	—	DF1B-T2428HR
Manual Crimping Tools						
20-22AWG, Plug	H9935-ND	596.48	—	—	—	DF1B-TA2022PHC
24-28AWG, Plug	H9937-ND	605.92	—	—	—	DF1B-TA2428PHC
30AWG, Plug	H9939-ND	605.92	—	—	—	DF1B-TA30PHC
20-22AWG, Socket	H9936-ND	596.48	—	—	—	DF1B-TA2022SHC
24-28AWG, Socket	H9938-ND	605.92	—	—	—	DF1B-TA2428SHC
30AWG, Socket	H9940-ND	605.92	—	—	—	DF1B-TA30SHC
Extraction Tools						
ID Socket	H9930-ND	2.19	42.47	135.91	—	DF-C-P0(A)
ID/Crimp Pin	H9932-ND	8.57	—	—	—	DF-C-P0(C)

DF1E Series Connectors

2.5 Pitch for Full Lock and Discrete Wire Connection

Features:

- The inner lock system adopts a full lock mechanism. This mechanism prevents disengagement to occur due to an unexpected external shock
- The double lock is activated for the use method to give a stress to the cable, to increase crimping contact fixation force, and to prevent the semi-insertion of the crimping contact
- Equipped with the mechanism to completely prevent reverse insertion and insertion between dissimilar contacts

Applications:

- Electronic equipment
- Office machines
- Industrial equipment
- Consumer equipment

Specifications:

- UL: E52653 • Current Rating: 20-22AWG: 3A, 24-28AWG: 1A and 30AWG: 0.5A • Voltage Rating: 30VAC • Operating Temperature Range: -35°C ~ 85°C • Operating Moisture Range: 20% ~ 80% • Insulation Resistance: 500VDC, 1000MΩ minimum • Withstanding Voltage: 1 minute at rated value, 650VAC (no flashover or insulation breakdown) • Contact Resistance: Measured at 20mV maximum and 1mA, 30mΩ maximum

Material:

- Insulator: Polyamide, white, UL94V-0 (header insulator: beige and retainer insulator: black) • Contacts: Crimping: Phosphor copper with tin plating • Header: Brass with solder plating

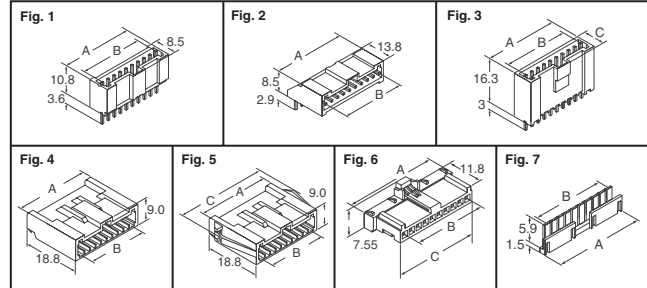


Fig.	No. of Contacts	Dimensions (mm)			Digi-Key Part No.	Pricing			Hirose Part No.
		A	B	C		1	25	100	
Pin Headers (Tin Plating)									
Vertical									
1	2	7.5	2.5	—	H3591-ND	.28	3.28	9.80	DF1EC-2P-2.5DSA
	4	12.5	7.5	—	H3593-ND	.38	4.50	13.43	DF1EC-4P-2.5DSA
	5	15.0	10.0	—	H3594-ND	.30	4.57	14.33	DF1EC-5P-2.5DSA
	6	17.5	12.5	—	H3595-ND	.40	5.94	18.60	DF1EC-6P-2.5DSA
	7	20.0	15.0	—	H3596-ND	.44	6.53	20.47	DF1EC-7P-2.5DSA
	9	25.0	20.0	—	H3598-ND	.52	7.73	24.23	DF1EC-9P-2.5DSA
	Vertical — RoHS Compliant								
1	2	7.5	2.5	—	H11073-ND	.58	10.48	34.30	DF1EC-2P-2.5DSA(05)
	3	10.0	5.0	—	H11074-ND	.66	11.98	39.20	DF1EC-3P-2.5DSA(05)
	4	12.5	7.5	—	H11075-ND	.72	12.98	42.47	DF1EC-4P-2.5DSA(05)
	5	15.0	10.0	—	H11076-ND	.80	14.48	47.37	DF1EC-5P-2.5DSA(05)
	6	17.5	12.5	—	H11077-ND	.91	16.47	53.91	DF1EC-6P-2.5DSA(05)
	7	20.0	15.0	—	H11078-ND	1.02	18.47	60.44	DF1EC-7P-2.5DSA(05)
	8	22.5	17.5	—	H11079-ND	1.07	19.46	63.71	DF1EC-8P-2.5DSA(05)
	9	25.0	20.0	—	H11080-ND	1.10	19.97	65.34	DF1EC-9P-2.5DSA(05)
	10	27.5	22.5	—	H11081-ND	1.16	20.97	68.61	DF1EC-10P-2.5DSA(05)
	11	30.0	25.0	—	H11082-ND	1.32	23.96	78.41	DF1EC-11P-2.5DSA(05)
	12	32.5	27.5	—	H11083-ND	1.32	23.96	78.41	DF1EC-12P-2.5DSA(05)
	13	35.0	30.0	—	H11084-ND	1.21	23.14	74.05	DF1EC-13P-2.5DSA(05)
	14	37.5	32.5	—	H11085-ND	1.23	23.60	75.50	DF1EC-14P-2.5DSA(05)
	15	40.0	35.0	—	H11086-ND	1.25	24.05	76.96	DF1EC-15P-2.5DSA(05)
	Right Angle								
2	2	7.5	2.5	—	H3577-ND	.31	3.77	11.25	DF1E-2P-2.5DS
	4	12.5	7.5	—	H3579-ND	.30	4.46	13.99	DF1E-4P-2.5DS
	6	17.5	12.5	—	H3581-ND	.44	6.48	20.31	DF1E-6P-2.5DS
	10	27.5	22.5	—	H3585-ND	.48	8.68	28.42	DF1E-10P-2.5DS
	12	32.5	27.5	—	H3587-ND	.62	11.23	36.76	DF1E-12P-2.5DS
	14	37.5	32.5	—	H3589-ND	.68	12.23	40.02	DF1E-14P-2.5DS
Right Angle — RoHS Compliant									
2	2	7.5	2.5	—	H11059-ND	.45	8.09	26.46	DF1E-2P-2.5DS(05)
	3	10.0	5.0	—	H11060-ND	.52	9.48	31.04	DF1E-3P-2.5DS(05)
	4	12.5	7.5	—	H11061-ND	.55	9.98	32.67	DF1E-4P-2.5DS(05)
	5	15.0	10.0	—	H11062-ND	.61	10.98	35.94	DF1E-5P-2.5DS(05)
	6	17.5	12.5	—	H11063-ND	.72	12.98	42.47	DF1E-6P-2.5DS(05)
	7	20.0	15.0	—	H11064-ND	.77	13.98	45.74	DF1E-7P-2.5DS(05)
	8	22.5	17.5	—	H11065-ND	.80	14.48	47.37	DF1E-8P-2.5DS(05)
	9	25.0	20.0	—	H11066-ND	.86	15.47	50.64	DF1E-9P-2.5DS(05)
	10	27.5	22.5	—	H11067-ND	.91	16.47	53.91	DF1E-10P-2.5DS(05)
	11	30.0	25.0	—	H11068-ND	1.07	19.46	63.71	DF1E-11P-2.5DS(05)
	12	32.5	27.5	—	H11069-ND	1.13	20.47	66.97	DF1E-12P-2.5DS(05)
	13	35.0	30.0	—	H11070-ND	.72	12.98	42.47	DF1E-13P-2.5DS(05)
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DF1E Series Connectors - 2.5mm Pitch for Full Lock and Discrete Wire Connection (Cont.)

Fig.	No. of Contacts	Dimensions (mm)			Digi-Key Part No.	Pricing			Hirose Part No.	
		A	B	C		1	25	100		
3	4	12.5	7.5	7.8	H11089-ND	.61	10.98	35.94	DF1EG-4P-2.5DSA(05)	
	5	15.0	10.0	8.0	H11090-ND	.75	13.47	44.10	DF1EG-5P-2.5DSA(05)	
	6	17.5	12.5	8.0	H11091-ND	.83	14.98	49.01	DF1EG-6P-2.5DSA(05)	
	7	20.0	15.0	8.0	H11092-ND	.91	16.47	53.91	DF1EG-7P-2.5DSA(05)	
	8	22.5	17.5	8.0	H11093-ND	1.02	18.47	60.44	DF1EG-8P-2.5DSA(05)	
	9	25.0	20.0	8.0	H11094-ND	1.13	20.47	66.97	DF1EG-9P-2.5DSA(05)	
	10	27.5	22.5	8.0	H11095-ND	1.27	22.96	75.14	DF1EG-10P-2.5DSA(05)	
	11	30.0	25.0	8.0	H11096-ND	1.18	22.69	72.60	DF1EG-11P-2.5DSA(05)	
	In-Line Plugs — RoHS Compliant									
	4	2	8.0	2.5	—	H3724-ND	.41	7.49	24.50	DF1EA-2EP-2.5C
		3	10.5	5.0	—	H3725-ND	.44	7.99	26.14	DF1EA-3EP-2.5C
4		13.0	7.5	—	H3726-ND	.47	8.59	28.10	DF1EA-4EP-2.5C	
5		15.5	10.0	—	H3727-ND	.52	9.48	31.04	DF1EA-5EP-2.5C	
6		18.0	12.5	—	H3728-ND	.55	9.98	32.67	DF1EA-6EP-2.5C	
7		20.5	15.0	—	H3729-ND	.61	10.98	35.94	DF1EA-7EP-2.5C	
8		23.0	17.5	—	H3730-ND	.63	11.48	37.57	DF1EA-8EP-2.5C	
9		25.5	20.0	—	H3731-ND	.66	11.98	39.20	DF1EA-9EP-2.5C	
10		28.0	22.5	—	H3732-ND	.69	12.48	40.84	DF1EA-10EP-2.5C	
Panel Mount Lock Type										
5	2	8.0	2.5	15.0	H3745-ND	.41	7.49	24.50	DF1E-2EP-2.5C	
	3	10.5	5.0	17.5	H3746-ND	.44	7.99	26.14	DF1E-3EP-2.5C	
	4	13.0	7.5	20.0	H3747-ND	.47	8.59	28.10	DF1E-4EP-2.5C	
	5	15.5	10.0	22.5	H3748-ND	.52	9.48	31.04	DF1E-5EP-2.5C	
	6	18.0	12.5	25.0	H3749-ND	.55	9.98	32.67	DF1E-6EP-2.5C	
	7	20.5	15.0	27.5	H3750-ND	.61	10.98	35.94	DF1E-7EP-2.5C	
	8	23.0	17.5	30.0	H3751-ND	.63	11.48	37.57	DF1E-8EP-2.5C	
	9	25.5	20.0	32.5	H3752-ND	.66	11.98	39.20	DF1E-9EP-2.5C	
	10	28.0	22.5	35.0	H3753-ND	.69	12.48	40.84	DF1E-10EP-2.5C	
	Sockets — RoHS Compliant									
6	2	8.0	2.5	5.4	H3767-ND	.21	2.49	7.44	DF1E-2S-2.5C	
	3	10.5	5.0	7.9	H3768-ND	.23	2.80	8.35	DF1E-3S-2.5C	
	4	13.0	7.5	10.4	H3769-ND	.25	3.04	9.08	DF1E-4S-2.5C	
	5	15.5	10.0	12.9	H3770-ND	.28	3.28	9.80	DF1E-5S-2.5C	
	6	18.0	12.5	15.4	H3771-ND	.40	4.81	14.34	DF1E-6S-2.5C	
	7	20.5	15.0	17.9	H3772-ND	.31	4.63	14.51	DF1E-7S-2.5C	
	8	23.0	17.5	20.4	H3773-ND	.33	4.90	15.35	DF1E-8S-2.5C	
	9	25.5	20.0	22.9	H3774-ND	.36	5.39	16.89	DF1E-9S-2.5C	
	10	28.0	22.5	25.4	H3775-ND	.38	5.61	17.58	DF1E-10S-2.5C	
	11	30.5	25.0	27.9	H3776-ND	.51	7.57	23.72	DF1E-11S-2.5C	
	12	33.0	27.5	30.4	H3777-ND	.52	7.68	24.06	DF1E-12S-2.5C	
	13	35.5	30.0	32.9	H3778-ND	.54	8.01	25.08	DF1E-13S-2.5C	
	14	38.0	32.5	35.4	H3779-ND	.42	7.64	25.00	DF1E-14S-2.5C	
	15	40.5	35.0	37.9	H3780-ND	.44	7.83	25.65	DF1E-15S-2.5C	

Fig.	No. of Contacts	Dimensions (mm)			Digi-Key Part No.	Pricing			Hirose Part No.
		A	B	C		1	25	100	
Retainers — RoHS Compliant									
7	2	8.0	2.5	—	H3855-ND	.38	4.62	13.79	DF1E-2RS/P-2.5
	3	10.5	5.0	—	H3856-ND	.30	4.46	13.99	DF1E-3RS/P-2.5
	4	13.0	7.5	—	H3857-ND	.31	4.63	14.51	DF1E-4RS/P-2.5
	5	15.5	10.0	—	H3858-ND	.33	5.01	15.70	DF1E-5RS/P-2.5
	6	18.0	12.5	—	H3859-ND	.36	5.45	17.06	DF1E-6RS/P-2.5
	7	20.5	15.0	—	H3860-ND	.38	5.66	17.74	DF1E-7RS/P-2.5
	8	23.0	17.5	—	H3861-ND	.40	5.94	18.60	DF1E-8RS/P-2.5
	9	25.5	20.0	—	H3862-ND	.41	6.21	19.45	DF1E-9RS/P-2.5
	10	28.0	22.5	—	H3863-ND	.44	6.53	20.47	DF1E-10RS/P-2.5

Contacts

AWG	Digi-Key Part No.	Loose Piece Pricing			Hirose Part No.	Cut Tape* Pricing		T & R †	Hirose Part No.
		1	25	100		1,000	3,000		
Plug Contacts - Tin Plated (annealed copper wire) — RoHS Compliant									
20-22	H3851-ND	.19	2.05	5.79	DF1E-2022PC	35.94	33.54/M	17.43/M	DF1E-2022PCF
24-28	H3853-ND	.21	2.27	6.39	DF1E-2428PC	39.20	36.59/M	17.43/M	DF1E-2428PCF
30	H3854-ND	.17	1.91	5.39	DF1E-30PC	—	—	—	—
Socket Crimping Contacts - Tin Plated (annealed copper wire) — RoHS Compliant									
20-22	H3852-ND	.22	2.34	6.59	DF1E-2022SC	40.29	37.61/M	18.88/M	DF1E-2022SCF
20-22	H3828-ND	.17	1.82	4.50	DF1B-2022SC	27.88	25.27/M	14.52/M	DF1B-2022SCF
24-28	H3832-ND	.17	1.82	4.50	DF1B-2428SC	27.88	25.27/M	14.52/M	DF1B-2428SCF
30	H3848-ND	.17	1.82	4.50	DF1B-30SC	27.88	25.27/M	14.52/M	DF1B-30SCF

* For Cut Tape part number, change -ND to CT-ND.
† For Tape and Reel part number, change -ND to TR-ND.

Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Manual Crimping Tool			
20-22AWG, Pin	H9942-ND	801.29	HT102-DF1BE-2022P
24-28AWG, Pin	H9943-ND	801.29	HT102/DF1BE-2028P
30AWG, Pin	H9944-ND	845.64	HT102/DF1BE-30P
20-22AWG, DF1E Socket	H9941-ND	772.03	HT102/DF1E-2022S
20-22AWG, DF1B Socket	H9936-ND	596.48	DF1B-TA2022SHC
24-28AWG, Socket	H9938-ND	605.92	DF1B-TA2428SHC
30AWG, Socket	H9940-ND	605.92	DF1B-TA30SHC
Extraction Tool			
Crimp Pin and Socket	H9996-ND	2.19	DF-C-PO(B)

Free shipping on orders over £50! All prices are in British pound sterling and include duties.

uk.digikey.com — FREEPHONE: 0-800-587-0991 • 0-800-904-7786 — FREEFAX: 0-800-587-0992 • 0-800-904-7783

DF7 Series Connectors

3.96mm Pitch Miniature Connectors for Secondary Power Supplies (UL, C-UL and TÜV Approved Items)

Features: • Positive locking feature; a complete locking function utilizing an internal system is used in these connectors. This prevents release due to external shock. • Usable at maximum current capacity. A maximum current carrying capacity of 10A is permitted when 16AWG wire is used.

Applications: • Secondary power supply circuits of a wide variety of electronic, office, industrial, and consumer equipment.

Specifications: • Rated Current: 22AWG: 4A, 20AWG: 5A, 18AWG: 7A and 16AWG: 10A • Rated Voltage: C-UL: AC600V/TUV; 7.92mm pitch - AC600V, 3.96mm pitch - AC300V • File No. C-UL: E52653 TUV: R9750437 • Contact Resistance: 10mΩ or less (initial) • Insulation Resistance: 1,000MΩ or greater • Single Unit Insertion and Withdrawal Life: 0.3 N minimum, 4.5 N maximum • Insertion/Withdrawal Life: 20mΩ or less

Materials: • Headers: Insulation, polyimide (glass strengthened product), natural (beige), UL94V-0 • Contacts: copper alloy with tin or gold plating • In-Line Plugs: Insulation, polyimide resin, natural (white), UL94V-0 • Retainers: Insulation, polyimide resin, black, UL94V-0 • Crimp Terminals: Contacts, copper alloy with tin or gold plating

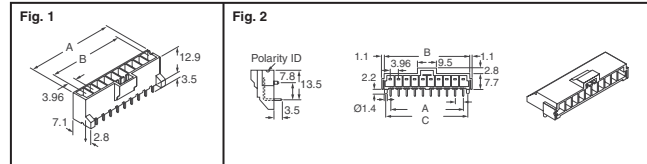


Fig.	No. of Contacts	Dimensions (mm)			Digi-Key Part No.	Pricing			Hirose Part No.
		A	B	C		1	25	100	
Pin Headers									
Vertical — Tin Plating									
1	1	—	—	—	H3472-ND	.38	4.50	13.43	DF7-1P-3.96DSA
Vertical — Tin Plating — RoHS Compliant									
1	6	26.24	19.80	—	H10831-ND	.94	16.97	55.54	DF7-6P-3.96DSA(25)
Vertical — Tin Plating; without Guide Posts									
1	2	10.40	3.96	—	H3463-ND	.29	4.36	13.65	DF7C-2P-3.96DSA
Vertical — Gold Plating									
1	6	26.24	19.80	—	H3458-ND	1.24	22.46	73.51	DF7-6P-3.96DSA(01)
	7	30.20	23.76	—	H3459-ND	1.34	24.11	78.90	DF7-7P-3.96DSA(01)
Right Angle — Tin Plating									
2	7	23.76	30.20	28.20	H2685-ND	.62	11.13	36.43	DF7-7P-3.96DS
					H2689-ND	.48	7.19	22.52	DF7-2P-7.92DS
Right Angle — Tin Plating — RoHS Compliant									
2	4	3.96	10.40	8.40	H10856-ND	.47	7.08	22.18	DF7-2P-3.96DS(25)
					H10858-ND	.47	8.49	27.77	DF7-4P-3.96DS(25)
					H10862-ND	.89	15.97	52.27	DF7-8P-3.96DS(25)
Right Angle — Gold Plating									
2	5	15.84	22.28	20.28	H3448-ND	1.34	24.31	79.56	DF7-5P-3.96DS(01)
					H3450-ND	1.32	25.37	81.17	DF7-7P-3.96DS(01)
					H3451-ND	1.50	28.72	91.91	DF7-8P-3.96DS(01)

† DF7-2P-7.92DS is DF7-3P-3.96DS with No. 2 pin removed and the number of contacts are indicated as 2.

Crimp Terminals

Description	Digi-Key Part No.	Cut Tape Pricing			Hirose Part No.
		100	500	1,000	
Male — Tin Plating — RoHS Compliant					
20-22	H2734CT-ND	7.62	27.44	42.69	DF7-2022PCF
Male — Gold Plating — RoHS Compliant					
16-18	H3476CT-ND	15.35	55.54	88.21	DF7-1618PCFA
20-22	H3477CT-ND	15.35	55.54	88.21	DF7-2022PCFA
Tools					
Manual Crimper for DF7 Series 16-18AWG	H9986-ND	1075.93/1			HT104/DF7-1618
Manual Crimper for DF7 Series 20-22AWG	H9987-ND	1075.93/1			HT104/DF7-2022

Power Supply Connectors — PX Series



Features: • Power supply connector for high-current withstands voltage of 2200V AC maximum and 10A/contact (60A/6 contacts) of rated current. • Housing design prevents incorrect insertion; opening section is designed to prevent reverse insertion and mating direction is easily checked. The opening section is keyed to prevent misalignment of plugs in parallel applications. • Reliable contact structure; three point contact, gold plated contacts (standard) with high-level environmental resistance, contact spring guard structure, structure prevents retainer deformation.

Specifications: • Temperature Range: -55°C - 105°C • Voltage: AC600V • Current: 10A • Contact Resistance: 10mΩ maximum measured at 100mA • Insulation Resistance: 1000MΩ minimum measured at DC 500V

Material: • Contacts: Copper alloy, gold plating • Insulator: PBT resin (UL94V-0) • Metal Fixture: Copper alloy, solder plating

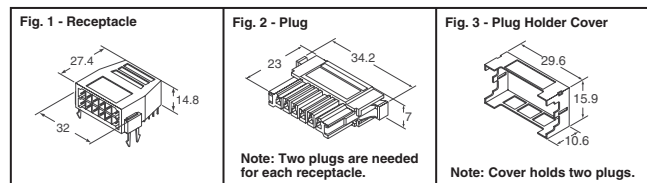
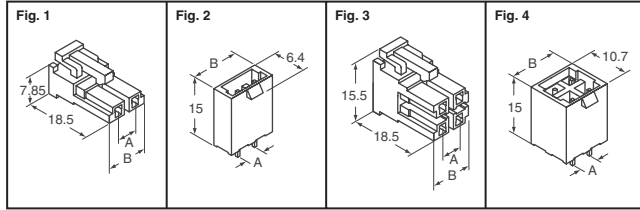


Fig.	No. of Circuits	Digi-Key Part No.	Price Each			Hirose Part No.
			1	50	100	
1	8	H11376-ND	4.12	3.42	2.85	PX10-AD4WP(50)
		H11375-ND	4.51	3.73	3.11	PX10-AF6WP(50)
2	4	H10071-ND	1.44	1.20	1.00	PX50-AD4S
		H10072-ND	1.79	1.49	1.25	PX50-AF6S
3	6	H10074-ND	1.79	1.49	1.25	PX-6WS-CV
		H11377-ND	.43	.36	.29	PX50-SC-131(50)
—	Female Terminal, 16-18AWG					

DF5 Series Connectors

5mm Pitch Miniature Connectors for Secondary Power Supplies

Features: • Capable of potting 9mm maximum • Outer lock system employs full lock mechanism
Applications: • Business machines, industrial equipment, consumer appliances (hot water supply, washing machines, refrigerator), etc.
Specifications: • Insulation Resistance: 500VDC, 1000MΩ minimum • Withstanding Voltage: 1 minute at rated value, 1500VAC (no flashover or insulation breakdown) • Contact Resistance: Measured at 100mA, 30mΩ maximum
Materials: • Crimping Contact Insulator: Polyamide, white, UL 94V-0 • Crimping Contact for Socket Contact: Phosphor bronze, tin plating • Pin Header Insulator: Polyamide, beige, UL94V-0 • Pin Header Contact: Brass, tin plating



Current Rating	No. of Rows	No. of Contacts	AWG #18	AWG #20	AWG #22	Operating Temperature Range	
						-35°C	-85°C
Double Row	Single Row	2-10	8A	6A	5A	Operating Moisture Range	
		4	8A	6A	5A	20% - 80%	
	Double Row	6	8A	6A	5A	Storage Temperature Range	-10°C - 60°C
		8	7A	6A	5A		
		10	7A	6A	5A		
		12	7A	6A	4A		
Voltage Rating	500VAC					Storage Humidity Range	
						40% - 70%	

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B	1	25	100		
Single Row Socket — RoHS Compliant								
1	2	5.0	10.5	H1900-ND	.30	3.65	10.89	DF5A-2S-5C
	3	10.0	15.5	H1901-ND	.33	4.90	15.35	DF5A-3S-5C
	4	15.0	20.5	H1902-ND	.36	5.45	17.06	DF5A-4S-5C
	5	20.0	25.5	H1903-ND	.36	5.45	17.06	DF5A-5S-5C
	6	25.0	30.5	H1904-ND	.40	5.99	18.77	DF5A-6S-5C
	7	30.0	35.5	H1905-ND	.51	7.62	23.89	DF5A-7S-5C
	8	35.0	40.5	H1906-ND	.41	7.49	24.50	DF5A-8S-5C
	9	40.0	45.5	H1907-ND	.41	7.49	24.50	DF5A-9S-5C
	10	45.0	50.5	H1908-ND	.44	7.99	26.14	DF5A-10S-5C
	Single Row Pin Header							
2	4	15.0	22.5	H1911-ND	.54	8.12	25.42	DF5A-4P-5DSA
	5	20.0	27.5	H1912-ND	.62	9.26	29.00	DF5A-5P-5DSA
	10	45.0	52.5	H1917-ND	.72	12.98	42.47	DF5A-10P-5DSA
Single Row Pin Header — RoHS Compliant								
2	2	5.0	12.5	H10281-ND	.36	5.45	17.06	DF5A-2P-5DSA(05)
	3	10.0	17.5	H10282-ND	.51	7.62	23.89	DF5A-3P-5DSA(05)
	4	15.0	22.5	H10283-ND	.44	7.99	26.14	DF5A-4P-5DSA(05)
	5	20.0	27.5	H10284-ND	.52	9.48	31.04	DF5A-5P-5DSA(05)
	6	25.0	32.5	H10285-ND	.61	10.98	35.94	DF5A-6P-5DSA(05)
	7	30.0	37.5	H10286-ND	.75	13.47	44.10	DF5A-7P-5DSA(05)
	8	35.0	42.5	H10287-ND	.83	14.98	49.01	DF5A-8P-5DSA(05)
	9	40.0	47.5	H10288-ND	.94	16.97	55.54	DF5A-9P-5DSA(05)
	10	45.0	52.5	H10289-ND	.99	17.97	58.81	DF5A-10P-5DSA(05)
	Double Row Socket — RoHS Compliant							
3	4	5.0	10.5	H1918-ND	.29	4.36	13.65	DF5A-4DS-5C
	6	10.0	15.5	H1919-ND	.33	4.90	15.35	DF5A-6DS-5C
	8	15.0	20.5	H1920-ND	.47	7.08	22.18	DF5A-8DS-5C
	10	20.0	25.5	H1921-ND	.51	7.62	23.89	DF5A-10DS-5C
	12	25.0	30.5	H1922-ND	.55	9.98	32.67	DF5A-12DS-5C
	14	30.0	35.5	H1923-ND	.58	10.48	34.30	DF5A-14DS-5C
4	14	30.0	35.5	H1924-ND	.63	11.48	37.57	DF5A-16DS-5C
	16	35.0	40.5	H1924-ND	.63	11.48	37.57	DF5A-16DS-5C
Double Row Pin Header								
4	6	10.0	17.5	H1926-ND	.44	7.99	26.14	DF5A-6DP-5DSA
	10	20.0	27.5	H1928-ND	.69	12.48	40.84	DF5A-10DP-5DSA
Double Row Pin Header — RoHS Compliant								
4	4	5.0	12.5	H10290-ND	.47	8.49	27.77	DF5A-4DP-5DSA(05)
	6	10.0	17.5	H10291-ND	.61	10.98	35.94	DF5A-6DP-5DSA(05)
	8	15.0	22.5	H10292-ND	.83	14.98	49.01	DF5A-8DP-5DSA(05)
	10	20.0	27.5	H10293-ND	.97	17.47	57.17	DF5A-10DP-5DSA(05)
	12	25.0	32.5	H10294-ND	1.24	22.46	73.51	DF5A-12DP-5DSA(05)
	14	30.0	37.5	H10295-ND	1.18	22.69	72.60	DF5A-14DP-5DSA(05)
	16	35.0	42.5	H10296-ND	1.30	24.96	79.86	DF5A-16DP-5DSA(05)

Socket Crimping Contacts (18-22AWG)

UL Style	Digi-Key Part No.	Loose Piece Pricing			Hirose Part No.	Cut Tape* Pricing		T & R † Pricing	Hirose Part No.
		1	25	100		100	500		
Tin Plated (annealed copper wire) — RoHS Compliant									
UL1007	H1932-ND	.22	2.34	6.59	DF5-1822SC(51)	—	—	—	—
UL1015	H1933-ND	.22	2.34	6.59	DF5A-1822SC(51)	5.19	17.93	24.69/M	DF5A-1822SCF(51)

* For Cut Tape, add CT to the Digi-Key Part No. (H1933CT-ND)
 † For Tape and Reel, add TR to the Digi-Key Part No. (H1933TR-ND)

Crimp Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Crimp Tool UL1007 18-22AWG	H9918-ND	850.36	DF5-1822/CR-HT
Crimp Tool UL1015 18-22AWG	H9919-ND	850.36	DF5A-1822/CR-HT

DF22 Series Connectors

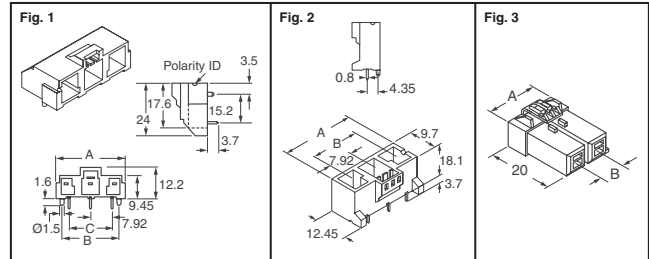
7.92mm Pitch Connectors for High-Current Internal Power Supplies

No. of Con.	Rated Current		
	12AWG	14AWG	16AWG
2	20A	18A	15A
3	20A	18A	15A
4	18A	15A	13A
5	18A	15A	13A

Features: • 20A maximum current capacity. The connector can carry a maximum current of 20A with 12AWG wire. • Secure latch mechanism: the fully shrouded latch mechanism is resistant to accidental unlatching from shock and vibration.
Applications: Consumer-electronics and power supplies for electronic devices, business machines, and industrial machinery

Specifications: • Operating Temperature Range: -35°C - 85°C • Contact Resistance: 5mΩ or less (initial) • Insulation Resistance: 1,000MΩ or more
Material: • Crimp Socket: Insulation, polyimide resin, natural (white), UL94V-0 • Female Crimp Contact: Terminal, high conductivity copper alloy, tin (whiskers free) • Header Insulation: Polyimide resin (glass reinforced), natural (beige), UL94V-0 • Header Terminal: High-conductivity copper alloy, tin (whiskers free)

Material: • Crimp Socket: Insulation, polyimide resin, natural (white), UL94V-0 • Female Crimp Contact: Terminal, high conductivity copper alloy, tin (whiskers free) • Header Insulation: Polyimide resin (glass reinforced), natural (beige), UL94V-0 • Header Terminal: High-conductivity copper alloy, tin (whiskers free)



Polarizing Options

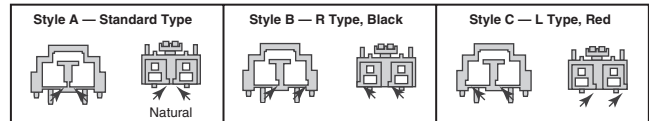


Fig.	No. of Contacts	Dimension (mm)			Digi-Key Part No.	Pricing			Hirose Part No.	
		A	B	C	1	25	100			
Pin Headers										
Right Angle — RoHS Compliant										
1A	3	27.72	22.92	15.84	H2777-ND	.70	12.78	41.82	DF22-3P-7.92DS	
	3	27.72	22.92	15.84	H1616-ND	.76	13.63	44.60	DF22R-3P-7.92DS	
	5	43.56	38.76	31.68	H1622-ND	1.08	19.51	63.87	DF22R-5P-7.92DS	
1B	3	27.72	22.92	15.84	H1616-ND	.76	13.63	44.60	DF22R-3P-7.92DS	
	3	27.72	22.92	15.84	H1616-ND	.76	13.63	44.60	DF22R-3P-7.92DS	
	5	43.56	38.76	31.68	H1616-ND	1.08	19.51	63.87	DF22R-5P-7.92DS	
1C	3	27.72	22.92	15.84	H1616-ND	.76	13.63	44.60	DF22R-3P-7.92DS	
	3	27.72	22.92	15.84	H1616-ND	.76	13.63	44.60	DF22R-3P-7.92DS	
	5	43.56	38.76	31.68	H1616-ND	1.08	19.51	63.87	DF22R-5P-7.92DS	
Right Angle — RoHS Compliant										
1A	2	19.80	15.00	7.92	H10702-ND	.65	11.98	38.88	DF22-2P-7.92DS(05)	
	3	27.72	22.92	15.84	H10703-ND	.93	16.87	55.21	DF22-3P-7.92DS(05)	
	4	35.64	30.84	23.76	H10704-ND	1.13	20.31	66.49	DF22-4P-7.92DS(05)	
	5	43.56	38.76	31.68	H10705-ND	1.34	24.36	79.71	DF22-5P-7.92DS(05)	
	2	19.80	15.00	7.92	H10706-ND	.79	14.37	47.04	DF22R-2P-7.92DS(05)	
1B	2	19.80	15.00	7.92	H10707-ND	.79	14.37	47.04	DF22R-2P-7.92DS(05)	
	3	27.72	22.92	15.84	H10708-ND	1.17	21.16	69.26	DF22R-3P-7.92DS(05)	
	4	35.64	30.84	23.76	H10709-ND	1.38	24.96	81.68	DF22R-4P-7.92DS(05)	
	5	43.56	38.76	31.68	H10710-ND	1.38	24.96	81.68	DF22R-5P-7.92DS(05)	
	2	19.80	15.00	7.92	H10711-ND	.79	14.37	47.04	DF22L-2P-7.92DS(05)	
1C	2	19.80	15.00	7.92	H10712-ND	.79	14.37	47.04	DF22L-2P-7.92DS(05)	
	3	27.72	22.92	15.84	H10713-ND	1.17	21.16	69.26	DF22L-3P-7.92DS(05)	
	4	35.64	30.84	23.76	H10714-ND	1.17	21.16	69.26	DF22L-4P-7.92DS(05)	
	5	43.56	38.76	31.68	H10715-ND	1.38	24.96	81.68	DF22L-5P-7.92DS(05)	
	Vertical									
2A	5	40.98	31.68	—	H2783-ND	1.01	18.32	59.95	DF22-5P-7.92DSA	
	4	33.06	23.76	—	H1620-ND	.92	16.62	54.40	DF22R-4P-7.92DSA	
2B	5	40.98	31.68	—	H1623-ND	1.08	19.57	64.03	DF22R-5P-7.92DSA	
	4	33.06	23.76	—	H1623-ND	1.08	19.57	64.03	DF22R-5P-7.92DSA	
Vertical — RoHS Compliant										
2A	2	17.22	7.92	—	H10714-ND	.77	13.87	45.41	DF22-2P-7.92DSA(05)	
	3	25.14	15.84	—	H10715-ND	1.10	19.91	65.18	DF22-3P-7.92DSA(05)	
	4	33.06	23.76	—	H10716-ND	1.19	21.51	70.41	DF22-4P-7.92DSA(05)	
	5	40.98	31.68	—	H10717-ND	1.36	24.76	81.02	DF22-5P-7.92DSA(05)	
	2	17.22	7.92	—	H10718-ND	.78	14.18	46.39	DF22R-2P-7.92DSA(05)	
2B	3	25.14	15.84	—	H10719-ND	1.02	18.37	60.11	DF22R-3P-7.92DSA(05)	
	4	33.06	23.76	—	H10720-ND	1.19	21.51	70.41	DF22R-4P-7.92DSA(05)	
	5	40.98	31.68	—	H10721-ND	1.36	24.76	81.02	DF22R-5P-7.92DSA(05)	
	2	17.22	7.92	—	H10722-ND	.80	14.48	47.37	DF22L-2P-7.92DSA(05)	
	3	25.14	15.84	—	H10723-ND	1.02	18.37	60.11	DF22L-3P-7.92DSA(05)	
2C	4	33.06	23.76	—	H10724-ND	1.19	21.51	70.41	DF22L-4P-7.92DSA(05)	
	5	40.98	31.68	—	H10725-ND	1.36	24.76	81.02	DF22L-5P-7.92DSA(05)	
	Crimp Socket Housing — RoHS Compliant									
	3A	2	15.50	7.92	—	H2784-ND	.31	3.71	11.07	DF22-2S-7.92C(28)
		3	23.42	15.84	—	H2785-ND	.54	8.17	25.59	DF22-3S-7.92C(28)
4		31.34	23.76	—	H2786-ND	.41	6.16	19.28	DF22-4S-7.92C(28)	
5		39.26	31.68	—	H2787-ND	.48	7.14	22.35	DF22-5S-7.92C(28)	
2		15.50	7.92	—	H1615-ND	.33	3.89	11.62	DF22R-2S-7.92C(28)	
3B	3	23.42	15.84	—	H1618-ND	.39	5.88	18.43	DF22R-3S-7.92C(28)	
	4	31.34	23.76	—	H1621-ND	.48	7.14	22.35	DF22R-4S-7.92C(28)	
	5	39.26	31.68	—	H1624-ND	.41	7.49			