

JST ZR Series 1.5mm Connectors



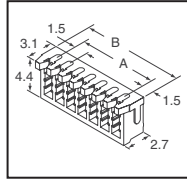
Mates with ZH Series Headers

Features:

- Twin U-slot insulation displacement section
- 3-point grip construction
- Distortion resistant construction
- Compatible with the ZH crimp style connector

Specifications:

- Current Rating: 0.7A AC, DC (AWG #28)
- Voltage Rating: 50V AC, DC
- Temp. Range: -25°C ~ 85°C
- Insulation Resistance: 500MΩ minimum
- Withstanding Voltage: 500V AC/minute
- Applicable PC Board Thickness: 0.6 ~ 1.2mm (.024" ~ .047")



Circuits	Dimensions – mm		Digi-Key Part No.	Pricing			JST Part No.
	A	B		1	10	100	
30 AWG							
2	1.5	4.5	455-2278-ND	.28	2.55	21.30	02ZR-3H-P
3	3.0	6.0	455-2279-ND	.30	2.79	23.19	03ZR-3H-P
4	4.5	7.5	455-2280-ND	.33	3.07	25.55	04ZR-3H-P
5	6.0	9.0	455-2281-ND	.36	3.33	27.76	05ZR-3H-P
6	7.5	10.5	455-2282-ND	.39	3.62	30.18	06ZR-3H-P
7	9.0	12.0	455-2283-ND	.42	3.94	32.86	07ZR-3H-P
8	10.5	13.5	455-2284-ND	.47	4.39	36.56	08ZR-3H-P
9	12.0	15.0	455-2285-ND	.48	4.44	37.03	09ZR-3H-P(P)
10	13.5	16.5	455-2286-ND	.54	4.99	41.59	10ZR-3H-P
12	16.5	19.5	455-2287-ND	.60	5.57	46.46	12ZR-3H-P
13	18.0	21.0	455-2288-ND	.62	5.76	47.98	13ZR-3H-P
28 AWG							
2	1.5	4.5	455-2289-ND	.28	2.58	21.46	02ZR-8M-P
3	3.0	6.0	455-2290-ND	.30	2.80	23.35	03ZR-8M-P
4	4.5	7.5	455-2291-ND	.34	3.08	25.71	04ZR-8M-P(P)
5	6.0	9.0	455-2292-ND	.36	3.36	27.99	05ZR-8M-P
6	7.5	10.5	455-2293-ND	.39	3.65	30.42	06ZR-8M-P
7	9.0	12.0	455-2294-ND	.41	3.75	31.22	07ZR-8M-P
8	10.5	13.5	455-2295-ND	.48	4.42	36.87	08ZR-8M-P
9	12.0	15.0	455-2296-ND	.46	4.22	35.16	09ZR-8M-P
10	13.5	16.5	455-2297-ND	.54	5.04	41.98	10ZR-8M-P
11	15.0	18.0	455-2298-ND	.60	5.51	45.91	11ZR-8M-P
12	16.5	19.5	455-2299-ND	.61	5.62	46.85	12ZR-8M-P
13	18.0	21.0	455-2300-ND	.66	6.15	51.25	13ZR-8M-P
Crimp Tools							
Head Adapter			455-1375-ND		625.83/1		IDHZR(F)20
Pistol Grip Crimp Tool			455-1372-ND		128.52/1		IDB-12

SFH Series 1.8mm Connectors



Features:

- Contact lance
- Countermeasure for inverse insertion and locking feature

Specifications:

- Current Rating: 4A AC, DC (AWG #22)
- Voltage Rating: 350V AC, DC
- Temperature Range: -25°C ~ 85°C
- Contact Resistance: 10mΩ max
- Insulation Resistance: 1,000MΩ minimum
- Withstanding Voltage: 1,700V AC/minute

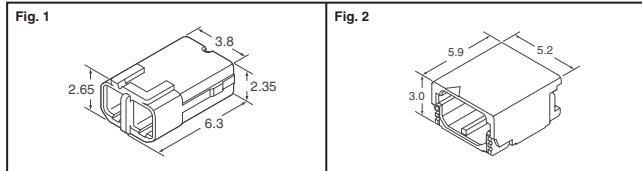


Fig.	Circuits	Color	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing†	JST Part No.
				1	10	100		
Housing								
1	2	Red	455-2520-ND	.13	1.15	9.63	—	SFHR-02V-R
		Yellow	455-2521-ND	.13	1.15	9.63	—	SFHR-02V-L
Headers								
2	2	Red	455-2524-1-ND	.44	4.05	33.76	224.19/M	SM02B-SFHR5-TF (LF)(SN)
		Yellow	455-2525-1-ND	.44	4.05	33.76	224.19/M	SM02B-SFHLS-TF (LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing†	JST Part No.
		1	10	100		
Contacts						
22 ~ 26 AWG, Tin-Plated	455-2522-1-ND	.02	.22		12.55/M	SSFH-001T-P0.5
26 ~ 30 AWG, Tin-Plated	455-2523-1-ND	.02	.22		12.55/M	SSFH-002T-P0.5
Crimp Tools						
22 ~ 26 AWG Contact	455-2526-ND		412.46/1		—	WC-SFH1
26 ~ 30 AWG Contact	455-2527-ND		418.13/1		—	WCSFH2

† For Tape and Reel part number, change 1-ND to 2-ND.

PA and PAL Series 2.0mm Connectors



PA Series:

Features:

- Standard type
- Highly Reliable Contact: The contact supplies stable performance even under conditions of vibration, distortion, low voltage or low current
- Insertion Guide Mechanism: The Header has housing insertion guides for easy and secure insertion
- Flanged press pin

- Specifications: • Current Rating: 3A AC/DC (AWG 22) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG • Applicable PC Board Thickness: 1.6mm (.063")

PAL Series:

Features:

- The industry's first wire to wire 2.0mm (.078") pitch retainer mountable type connector.

- Specifications: • Current Rating: 3A AC/DC (22 AWG) • Voltage Rating: 100V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG • Applicable Panel Thickness: 0.5 ~ 2.0mm (.020" ~ .079")

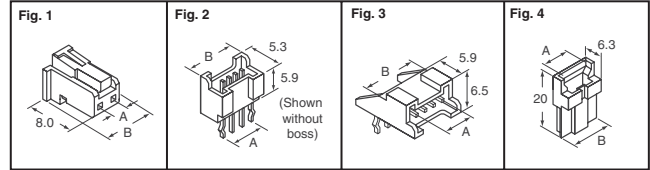


Fig.	Circuits	Dimensions – mm		Digi-Key Part No.	Pricing			JST Part No.
		A	B		1	10	100	
PA SERIES Housing								
1	2	2.0	6.0	455-1486-ND	.07	.70	5.81	PAP-02V-S(P)
	3	4.0	8.0	455-1487-ND	.08	.73	6.06	PAP-03V-S(P)
	4	6.0	10.0	455-1488-ND	.08	.75	6.25	PAP-04V-S
	5	8.0	12.0	455-1489-ND	.10	.93	7.74	PAP-05V-S
	6	10.0	14.0	455-1490-ND	.10	.94	7.86	PAP-06V-S
	7	12.0	16.0	455-1491-ND	.10	.94	7.87	PAP-07V-S
	8	14.0	18.0	455-1492-ND	.10	.96	7.99	PAP-08V-S
	Headers							
Top Entry without Boss (Shrouded)								
2	2	2.0	6.0	455-1817-ND	.14	1.35	11.31	B02B-PASK(LF)(SN)(P)
	3	4.0	8.0	455-1818-ND	.18	1.68	14.05	B03B-PASK(LF)(SN)
	4	6.0	10.0	455-1819-ND	.22	2.02	16.79	B04B-PASK(LF)(SN)
	5	8.0	12.0	455-1820-ND	.27	2.48	20.67	B05B-PASK(LF)(SN)
	6	10.0	14.0	455-1821-ND	.30	2.79	23.31	B06B-PASK(LF)(SN)
	7	12.0	16.0	455-1822-ND	.34	3.16	26.35	B07B-PASK(LF)(SN)
	8	14.0	18.0	455-1823-ND	.38	3.48	29.04	B08B-PASK(LF)(SN)
	Top Entry with Boss (Shrouded)							
2	2	2.0	6.0	455-1832-ND	.14	1.35	11.31	B02B-PASK-1(LF)(SN)
	3	4.0	8.0	455-1833-ND	.18	1.68	14.05	B03B-PASK-1(LF)(SN)
	4	6.0	10.0	455-1834-ND	.22	2.02	16.79	B04B-PASK-1(LF)(SN)
	5	8.0	12.0	455-1835-ND	.27	2.48	20.67	B05B-PASK-1(LF)(SN)
	6	10.0	14.0	455-1836-ND	.30	2.79	23.31	B06B-PASK-1(LF)(SN)
	7	12.0	16.0	455-1837-ND	.34	3.16	26.35	B07B-PASK-1(LF)(SN)
	8	14.0	18.0	455-1838-ND	.38	3.48	29.04	B08B-PASK-1(LF)(SN)
	Side Entry (Shrouded)							
3	2	2.0	6.0	455-1847-ND	.19	1.80	14.99	S02B-PASK-2(LF)(SN)(P)
	3	4.0	8.0	455-1848-ND	.29	2.65	22.11	S03B-PASK-2(LF)(SN)
	4	6.0	10.0	455-1849-ND	.32	2.93	24.46	S04B-PASK-2(LF)(SN)
	5	8.0	12.0	455-1850-ND	.35	3.29	27.40	S05B-PASK-2(LF)(SN)
	6	10.0	14.0	455-1851-ND	.37	3.42	28.48	S06B-PASK-2(LF)(SN)
	7	12.0	16.0	455-1852-ND	.43	4.00	33.27	S07B-PASK-2(LF)(SN)
	8	14.0	18.0	455-1853-ND	.47	4.34	36.16	S08B-PASK-2(LF)(SN)(P)

Description	Digi-Key Part No.	Cut Tape Pricing		Tape and Reel Pricing†	JST Part No.
		1	10		
Contacts for PA Series					
26 ~ 22 AWG, Tin-Plated	455-1325-1-ND	.02	.23	11.80/M	SPHD-001T-P0.5
28 ~ 24 AWG, Tin-Plated	455-1313-1-ND	.02	.23	11.80/M	SPHD-002T-P0.5
Crimp Tools for PA Series					
26 ~ 22 AWG Contact	455-1238-ND		419.84/1	—	WC-610
28 ~ 24 AWG Contact	455-1237-ND		741.26/1	—	YRS-620

Fig.	Circuits	Dimensions – mm					Digi-Key Part No.	Pricing			JST Part No.
		A	B	C	D	E		1	10	100	
PAL SERIES Housing											
Without Panel Locks											
4	2	2.0	9.4	—	—	—	455-1548-ND	.06	.54	4.56	PALR-02VF
	3	4.0	11.4	—	—	—	455-1549-ND	.06	.58	4.86	PALR-03VF
	4	6.0	13.4	—	—	—	455-1550-ND	.07	.70	5.78	PALR-04VF
	5	8.0	15.4	—	—	—	455-1551-ND	.08	.72	6.01	PALR-05VF
	6	10.0	17.4	—	—	—	455-1552-ND	.08	.75	6.29	PALR-06VF

Description	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing†	JST Part No.
		1	10	100		
Contacts – Tin Plated for PAL Series						
22 ~ 26 AWG	455-1546-1-ND	.02	.21	1.74	9.26/M	SPAL-001T-P0.5
24 ~ 28 AWG	455-1547-1-ND	.02	.21	1.74	9.26/M	SPAL-002T-P0.5
Crimp Tool for PAL Series						
24 ~ 26 AWG, Contact only	455-1906-ND		385.08/1		—	YC-610R

† For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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