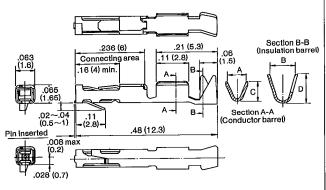
•CRIMP CONTACT FOR DISCRETE WIRE SOCKET CONTACT (SF TYPE) & CRIMPING TOOL

SOCKET CONTACT FOR SOCKET CONNECTOR

Crimp type socket contact inserted into socket connector (PS-**SD-D4C2, PS-**SD-S4C2, PS-D4C**)

After crimped with crimping tool, contact is inserted into contact hole from housing rear side and is retained in housing with contact latch. Contact can be extracted with extraction tool if necessary.





Material: Phosphor bronze

Finish: gold over nickel. .000004 (0.1 μ) min. gold on connecting area, gold flash on the other area.

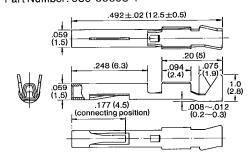
SOCKET CONTACT FOR DISCRETE WIRE

Socket contact is crimped with discrete wire and is connected to single post or pin header post, or other .025 (0.64mm) square post for individual connection in internal wiring.





Part Number: 030-50698-1



Material: Phosphor bronze

Finish: $.000012 (0.3 \mu)$ gold over nickel

Dimensions subject to change. (millimeters are in parentheses)

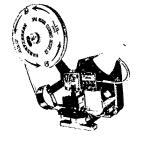
		Α	В	C	D		Applicable Wire Size		
	Part Number (Note 1)	±.012 (±0.3)	±.012 (±0.3)	±.012 (±0.3)	±.012 (±0.3)	AWG	Conductor Cross- sectional Area	Overall dia. including insulation	Tool
LOOSE	030-51304-001 (PS-SF-C2-1)	.063	.071	.063	.094	#28~#24	0.08~0.20mm²	,028 (0.7)~	CT150-1-PSSF Hand Tool
REELED (Note 2)	031-50828 (PS-SF-C2-1-N)	(1.6)	(1.8)	(1.6)	(2.4)	#20'-#24	0.03 -0.2011111	.047 (1.2)	CT350-2-PSSF Semi-Auto, Tool
LOOSE	030-51307-001 (PS-SF-C1-1)	.067	.087	.071	.102	#24~#22	0.20~0.38mm²	.047 (1.2)~	CT150-1G-PSSF Hand Tool
REELED (Note 2)	031-50831 (PS-SF-C1-1-N)	(1.7)	(2.2)	(1.8)	(2.6)	#24 -#22	0.20 0.0011111	.063 (1.6)	CT350-2-PSSF Semi-Auto, Tool
For discrete	030-50698-1					#28~#26	0.08~0.13mm²	.031 (0.8)~ 0.43 (1.1)	CT150-1-PSC (hand)
wire	(PS-SC-C2-1)	- -	_	- -		#26~#24	0.13~0.20mm²	.039 (1.0)~ 0.55 (1.4)	CT150-1B-PSC (hand)

(Note 1) Part number in parentheses is not needed.

(Note 2) 5,000 contacts per reel (Note 3) Other than .000004 (0.1 μ) min gold on connecting area, .000012 (0.3 μ) min. gold or .000030 (0.76 μ) min. gold on connecting area are also available.

Semi-automatic Crimping Tool

Semi-automatic crimping tool is available for high volume of crimp terminations. Reeled contacts can be successively crimped and laborsaving can be accomplished in the termination procedure. Consult us for details.



Hand Crimp tool

(see page 16 for hand crimp procedure)

■GENERAL SPECIFICATIONS (MAIN PERFORMANCE)

(Note) Group A... crimp type socket connector, dip receptacle pin header, pin connector

Group B... socket connector for FRC (contact installed) and PCB

transition connector

	TEST ITEM		PERFORMANCE					TEST METHOD	
			GROUP A G						
	Rated current		3A 1A					_	
ΆL	Insulation resistance	1000 M Ω min.		1000	1000 M Ω min.			To be measured within 1 min. with 500 VDC (100 VDC for FRC socket) applied between contacts	
25	D.W.V.	1000 V	AC r.m.s.	500\	500 VAC r.m.s.			Between the most adjacent contacts for 1 min.	
ELECTRICAL	Contact resistance	10 mΩ	10 mΩ max.			(a) socket20 m Ω max. (b) transition 10 m Ω max.		Voltage drop measurement, test current 0.1 A DC, applied voltage 3—6 V	
	Low level contact resistance	10 mΩ		(a) socket20 m Ω max. (b) transition 10 m Ω max.			Test current 1 mA max. Open test voltage 20 mV max.		
	Lever operating force (shrouded pin header)	2.5 kg r 3 kg ma	max. for 16 x. for 40 –		contact connector ntact connector			Both levers are operated evenly to unmate mated connectors and the load is measured using tester	
	Locking strength (shrouded pin header)	(a) 8 kg (b) no c of pa	racking, b	oreaking or loos	ening			Mated connectors are pulled in the axial direction and the load is measured using tester.	
CAL	Individual contact unmating force	40 g mi						A steel pin gage (.025±.00004 (0.64±0.01)) is inserted into and withdrawn from socket contact in the axial direction and withdrawal force is measured	
MECHANICAL	Connector mating/ unmating force	300 (b) con	ting force f contacts) max mating force contacts) min.	ets) max. force			Pin header is inserted into and withdrawn from socket connector in the axial direction and the load is measured using a tester		
	Cover holding force		-			10 kg on 5 kg r		Cover insulator assembled in base insulator is pulled to separate from base insulator and the load is measured	
	Crimp tensile strength (crimp contact only)			Correspondi AWG No.		Min. crimp tensile strength		Both ends of crimped contact and wire are pulled to the axial direction until the contact and the wire are ultimately separated or broken	
		0.2 mm	0.2 mm ²		#24 3.5 kg		3.5 kg		
		0.15		#26			2.1		
		80.0		#28			1.4		
	Thermal shock	Step	Step Temperature (°C) Time (min.)					MIL-STD-202, Method 107, condition B (condition A for FRC connector), mated connector, 5 cycles, no physical	
		1						damage during test.	
		2							
		3)			
		4	4 $+25^{+10}_{-6}$ 5 max.				5 max.	AUL OTD COO Mathed 400 and differ D Mated connector	
	Moisture resistance	- [tion resis	tance 100 M Ω				MIL-STD-202, Method 103, condition B, Mated connector, 40±2°C, 90 to 95% relative humidity, 96 hours	
_	Salt spray		ent to inter	orrosion on con fere with opera				MIL-STD-202, method 101, condition B, Mated connector, 5% salt solution, 35°C, 48 hours	
IRONMENTAL	Vibration	parts, n 1 micro unmati	o interrup second m ng force a	aking or loosen otion more than nax. Individual o nd connector n re to be passed	contac nating/			MIL-STD-202, Method 204 (Method 201 for FRC connector) Mated connectors, carrying a 100 mA current during test	
ENA	Shock	parts. N		aking or loosen otion more than				MIL-STD-202, Method 202, Mated connector, 50G, one blow in each direction of three mutually perpendicular axes, carrying a 100mA current during test	
	Durability	After te Indivi Conta	st, dual conta	cts during test act unmating fo nce: 10 mΩ ma itor)	rce: 40			500 cycles of mating and unmating	
	Current cycling		e size WG)	Test curre (A)	nt	Vo	ltage drop (mV)	50 cycles of current cycling test (one cycle consists current running of 30 minutes and no current of 15	
		#	£28	1.25			-5	minutes) are conducted and the resistance at connecting portion is measured.	
		#26		1.25			4		
		#	£24	3.75			10		

Note: For detailed specifications, consult us.

2290 C-03

JAE PS series connectors have been standardized for cost reduction and reliability improvement. Examples are connecting length from .276" (7 mm) to .236" (6 mm), and stamped contact of pin header post. This catalog deals mainly with our latest standard items. For your future needs, please use our latest items as shown in this catalog although you have been satisfied with our connectors in the past.

Some combinations of old and new items should not be used. For details, consult us. (see below)

•CRIMP TYPE SOCKET CONTACT

Applicable wire	SD type (old)	SF type (new)	
AWG #22~#24	030-51065-1 (PS-SD-C1NN-1)	030-51307-001 (PS-SF-C1-1)	
	031-50800 (PS-SD-C1NN-1-N)	031-50831 (PS-SF-C1-1-N)	
AWG #24~#28	030-50793-1 (PS-SD-C2NN-1)	030-51304-001 (PS-SF-C2-1)	
	031-50617 (PS-SD-C2NN-1-N)	031-50828 (PS-SF-C2-1-N)	

When crimp type socket contact SD type for discrete wire is used, care should be taken about the connecting length of counterpart pin header.

COMBINATION

	Pin header connecting length			
Contact	PA type .276 (7)	PE type .236 (6)		
SD type (old)	0	x		
SF type (new)	0	0		

SOCKET CONNECTOR

Double type	PS-**SD-D4C2
Single type	PS-**SD-S4C2

•SOCKET CONNECTOR WITH KEY

TOOGNET CONNECTO	II AATIII IZET
Old type	New type
PS-**SD-D4C2-N1	PS-D4C**

●OPEN PIN HEADER

			PA type (old)	PE type (new)
	Post connecting length	.276 (7)	.276 (7)	.236 (6)
Changed	Manufactured	machined	stamped	stamped
content	PCB mounting hole dia.	.039~.043 (1~1.1)	.039~.043 (1~1.1)	.031 (0.8) DIA (.039~.043 (1~1.1) for wrapping type)
	straight, double	PS-**PA-D4T1-A1	PS-**PA-D4T1-P1	PS-**PE-D4T1-PN1
	straight, single	PS-**PA-S4T1-A1	PS-**PA-S4T1-P1	PS-**PE-S4T1-PN1
Part	angle, double	PS-**PA-D4LT1-A1	PS-**PA-D4LT1-P1	PS-**PE-D4LT1-PN1
number	angle, single	PS-**PA-S4LT1-A1	PS-**PA-S4LT1-P1	PS-**PE-S4LT1-PN1
	wrapping, double	PS-**PA-D4R1-A1	_	PS-**PE-D4R1-A1 (machined)
	wrapping, single	PS-**PA-S4R1-A1	_	PS-**PE-S4R1-A1 (machined)

IDC SOCKET CONNECTOR

	SEO type (old)	SEN type (new)
closed-end	PS-**SEO-D4P1-1C	PS-**SEN-D4P1-1C
daisy-chain	PS-**SEO-D4P1-1D	PS-**SEN-D4P1-1D

COMBINATION

	Pin header co	nnecting length
Socket	PA type .276 (7)	PE type .236 (6)
SEO (old)	0	0
SEN (new)	0	0

•PIN HEADER WITH LOCKING/UNLOCKING MECHANISM

Changed		PA/PE type (old)					
	Connecting length	.276 (7)	.236 (6)	PE type (new)			
content	Manufactured	machined	machined	stamped			
	MTG hole (dia.)	.039 – .043 (1 – 1.1)	L1:.039943 (1-1.1) LN1:.031 (0.8)	.031 (0.8) dia. (.039 –.043 (1 – 1.1) dia. for wrapping type			
Part number	Straight	PS-**PA-D4T1-L1	PS-**PE-D4T1-L1 or LN1	PS-**PE-D4T1-LP1			
	Angle	PS-**PA-D4LT1-L1	PS-**PE-D4LT1-L1 or LN1	PS-**PE-D4LT1-LP1			
	Wrapping	PS-**PA-D4R1-L1	PS-**PE-D4R1-L1	PS-**PE-D4R1-L1 (machined)			

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