

# 220 series contacts

FOR 221, 222, 223 SERIES CONNECTOR

## Ultra-Tac Contacts

Top quality micro-miniature contacts. The socket contacts are hooded to resist test prod damage.

## Relia-Tac Contacts

Durable, customer-proven contacts.

## Pin Tail Contacts

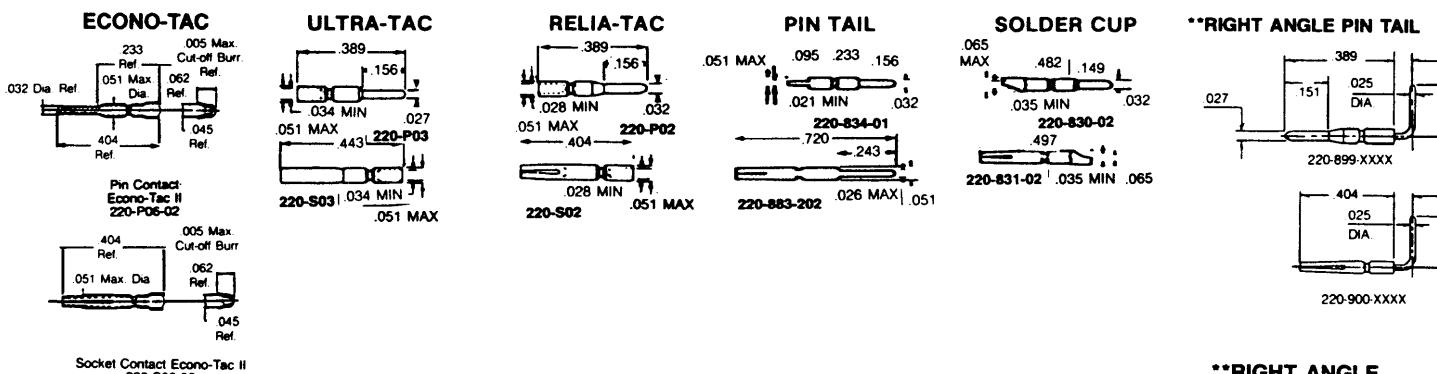
Pin Tail Relia-Tac contacts may be used for mounting connectors directly to printed circuit boards. Can be provided with right angle bend.

## Solder Cup Contacts

Can be soldered to leads before insertion or, with proper heat sink, after contacts are assembled.

Part Number	Description
220-P02 (Pin) 220-S02 (Socket)	Standard, See specifications below
220-844-02 (Pin) 220-845-02 (Socket)	Same as above, except heavy gold plating and inspection hole in crimp area

### specifications



	ECONO-TAC	ULTRA-TAC	RELIA-TAC	PIN TAIL	SOLDER CUP	**RIGHT ANGLE PIN TAIL
Current (Amps) Rating	5	5	5	5	5	5
Contact Resistance* (ohms)	.0060	.0060	.0060	.0050 to .0060	.0060	.0060
Wire Range (Ga.) (Solid & Stranded)	24,26,28	22,24,26	24,26,28	N/A	24,26,28	N/A
Contact Finish	Gold-over-Copper on Copper Alloy Bodies	Gold-over-Copper on Copper Alloy Bodies	Gold-over-Copper on Copper Alloy Bodies	Gold-over-Copper on Copper Alloy Bodies	Gold-over-Copper on Copper Alloy Bodies	Gold-over-Copper on Copper Alloy Bodies

\* Constant to a minimum of 100 cycles of insertion and withdrawal.

## Ordering Information

Minimum order quantity is 100 pieces.  
Contacts can be supplied on reels for use in semi-automatic, crimp machines.  
Contact factory.

**NOTE:** All socket contacts are completely shrouded within the plug inserts for optimum protection against damage. Pin contacts are normally exposed when assembled into receptacle inserts.

## \*\*Right Angle Pin Tail Dimensions

Pin	Socket	"A"	"B"	Series Used On
220-899-01XX	—	.166	.306	223
—	220-900-01XX	.166	.306	223
220-899-02XX	—	.080	.220	223
—	220-900-02XX	.080	.220	223
220-899-03XX	—	.080	.172	221
—	220-900-03XX	.080	.172	221
—	220-900-04XX	.180	.306	223

**NOTE:** Substitute XX with:  
02 - .000020" Gold over Nickel  
03 - Bright Tin/Lead



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# order information

NOTE: (Use 356-200 handles for insertion/removal bits)

Contact	Barrel O.D./I.D.	Crimp Tool	Bushing (Location)	Crimp Setting for Wire AWG.								Insertion Tool Bit	Removal Tool Bit
				16	18	20	22	24	26	28	30		
17-763(S) 17-766(P)	.007/.045	357-100	357-300-02			#7 .038 ±.003	#6 .034 ±.003	#5 .030 ±.003				356-400-1 or 356-400-10 (Encapsulated) Connector— to 20 Ga. Wire)	356-400-5  356-400-6
17-763(S) 17-766(P)	.007/.045	357-2501											356-400-5 356-400-6
17-764(S)	.062/.045	Solder										356-400-1	356-400-5
17-765(P)	.062/.045	Solder										356-400-1	356-400-6
17-767(P)	.062/.045	Solder										356-400-1	356-400-6
17-1005P	.106/.067	consult factory		.058 ±.003	.053 ±.003							356-400-2	356-400-6
17-1006(S)	.106/.067												356-400-5
17-1198(P)	.040 Tail	Rt. Angle										356-400-4	356-400-6
17-1207(P)	.040 Tail	Rt. Angle										356-400-4	356-400-6
17-1208(S)	.040 Tail	Rt. Angle										356-400-4	356-400-5
17-1209(S)	.040 Tail	Rt. Angle										356-400-4	356-400-5
17-1263(S)	.062/.045	Solder										356-400-1	356-400-5
17-1309(S)	.077/.032	357-100	357-300-02					#7 .036 ±.002	#6 .032 ±.002	#5 .030 ±.002		356-400-1	356-400-5
17-1310(P)	.077/.032												
17-RRD1-FXX 17-RRD1-MXX		357-574		Applicator for contacts on reels— adj. crimp setting									356-271
		357-2500				.044 ±.011	.044 ±.001	.043 ±.001					
17-RRD2-MXX 17-RRD2-FXX		357-574		Applicator for contacts on reels— adj. crimp setting				.026 ±.001	.026 ±.001	.026 ±.001	.026 ±.001		356-271
		357-2500											356-400-31
220-S02(S)	.049/.031	357-100	357-300-01					.024 ± .002	.018 ± .002	.015 ± .002		356-400-11	356-400-14
220-P02(P)	.049/.031	357-100	357-300-08					.024 ± .002	.018 ± .002	.015 ± .002		356-400-11	356-400-15
220-S03(S)	.050/.036	357-100 357-104 357-110 359-400	357-300-03 357-304-03 357-310-03 359-340-05					.024 ± .002	.020 ± .002	.015 ± .002		356-400-11	356-400-14
220-P03(P)	.050/.036	357-100	357-300-08					.024 ± .002	.020 ± .002	.015 ± .002		356-400-11	356-400-15
220-830 220-831 220-834 220-883	— — — —	Solder Solder Solder Solder	— — — —									356-400-11 356-400-11 356-400-11 356-400-11	356-400-15 356-400-14 356-400-15 356-400-15
221-759(P) 221-760(S)	.033/.023 .033/.023	357-101 357-101	357-301-03 357-301-03					.021/.018 .021/.018	.018/.015 .018/.015	.015/.012 .015/.012		356-400-20 356-400-20	356-400-21 356-400-22

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