SOLITRONICS ENGINEERING LTD.

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Electrical Contact Rivets Date: 19TH Aug 2005 Group: Part Number: Data Sheet: Rivet Type Contact SEL-ECR-XXXXXXXXX SEL-ECR-01

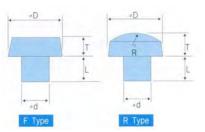
Standard Contact Rivet Sizes

SE

Solid Type Contact Rivets Flat-type and Radial Type

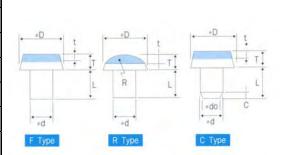
D±0.1 (mm)	T±O.05 (mm)	d±0.05 (mm)	L±0.1 (mm)	F	R
2.0	0.5	1.2	1.5	F	3
2.0	0.6	1.2	1.5	F	3
2.5	0.8	1.5	1.5	F	3
3.0	0.8	1.5	1.5	F	8
30	10	15	15	F	8
3.5	0.8	2.0	2.0	F	10
3.5	1.0	2.0	2.0	F	10
4.0	1.0	2.0	2.0	F	10
4.0	1.2	2.0	2.0	F	10
4.5	1.0	2.5	2.0	F	15
4.5	1.2	2.5	2.5	F	15
5.0	1.2	2.5	2.5	F	20
6.0	1.5	3.0	2.0	F	20





Composite or Clad Type Contact Rivets (Flat-type, Radial-type and Flat-type with conical shaft end)

D±0.1 (mm)	T±0.05 (mm)	d+0/-0.1 (mm)	L±0.1 (mm)	t (mm)	do	С	F	R
2.4	0.7	1.2	1.0	0.35			F	3
3.0	1.0	1.5	2.0	0.45			F	8
3.5	1.0	2.0	2.0	0.4, 0.55			F	10
4.0	1.0	2.0	2.0	0.5			F	15
5.0	1.0	2.5	2.0	0.55			F	20
4.0	1.0	2.0	1.8	0.45	1.6	0.4	F	10
4.5	1.0	2.5	1.8	0.4	2.1	0.6	F	15
5.0	1.0	2.5		0.5	2.1	0.8	F	20



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Contact Rivet Material Type and Properties

Ag-Ni Series

Ng-Ni alloy is made by powder metallurgy technique. It is similar to Ag-Cdo alloy but has less anti-fusion properties. It has a higher stability due to lower contact resistance and better "anti-erosion by arc" characteristics than Ag-W series. It is also more suitable for heavy load application than Ag-Cu-Ni alloy. AgNi10% alloy is most commonly used type of material.

Applications of different types of Ag-Ni Contact Rivets

Туре	Ag	Ni	Density	Hardness	I.A.C.S% Electrical Conductivity	Wear Resistance	Anti- Fusion	Contact Resistance	Applications
SN-10	90	10	10.0	66	80 and above	Very Good	Excellent	Excellent	Small Breaker, Relay, Switches, Power, Switches
SN-15	85	15	9.9	67	75 and above	Very Good	Excellent	Excellent	Voltage Controller
SN-30	70	30	9.6	70	55 and above	Good	Very Good	Excellent	Voltage Contact, Relay

Ag-Cu Series

Ag-Cu series has higher hardness, although conductivity is less and contact resistance by oxidation is lower. Ag-Cu series contacts have higher contact pressure than pure Ag and are used for electrical parts which can withstand temperature increase. 3-40% Cu content is commonly used. 92.5% Ag-Cu alloy is also used for sliding contacts.

Applications of different types of Ag-Cu Contact Rivets

Туре	Composition	Density	Hardness	I.A.C.S% Electrical Conductivity	Wear Resistance	Anti- Fusion	Contact Resistance	Applications
SC-7	92.5-7.5	10.3	56	90	Very Good	Excellent	Excellent	Home Appliances, selector switch, timer
SC-10	90-10	10.3	62	86	Very Good	Excellent	Excellent	switch, communication devices, dial hool switch, acoustic Apparatus, rotary Switch
SC-20	80-20	10.2	85	82	Good	Very Good	Excellent	automotive Flasher etc.

Ag-Cdo Series

Ad-Cdo has good wear resistance and anti-fusion properties. Due to lower contact resistance, the temperature rise on continuously on contacts is relatively small. Ag-Cdo alloy also have good stability.

Kinds	Ag	Cdo	Others	Hardness	Density	I.A.C.S% Electrical Conductivity	Applications
SY-80	92	8		65	10.3	80	
SY-100	90	10		70	10.3	75	Home appliances (Electric pot, iron), head light control relay, magnet switch, push-button switch,
SY-120	88	12		70	10.2	75	buzzer, light switch, relay, light Electric grill, light load relay etc.
SY-140S	85.5	14	0.5	90	10.1	60	
SY-151	83.5	14	2.5	95	10.1	55	Relay, light load relay, security breaker, electronic
SY-161	81.5	17	1.5	100	10.1	50	switches, medium load connector, light switch, no fuse breaker, motor breaker, circuit breaker, TV
SY-181	83	15	2	100	10.1	60	power switch etc.

For plate contacts, chemical composition of Ag clad is not included.