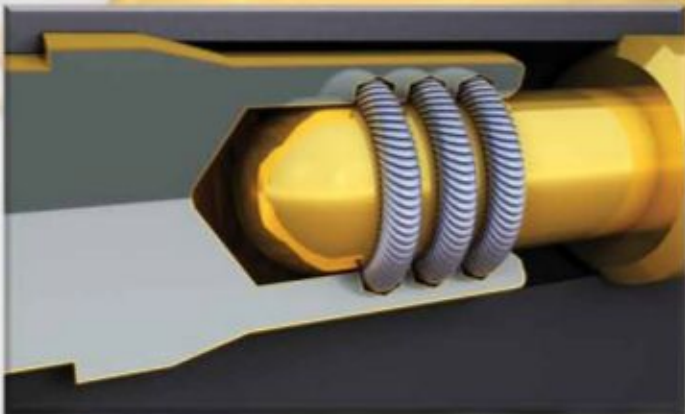
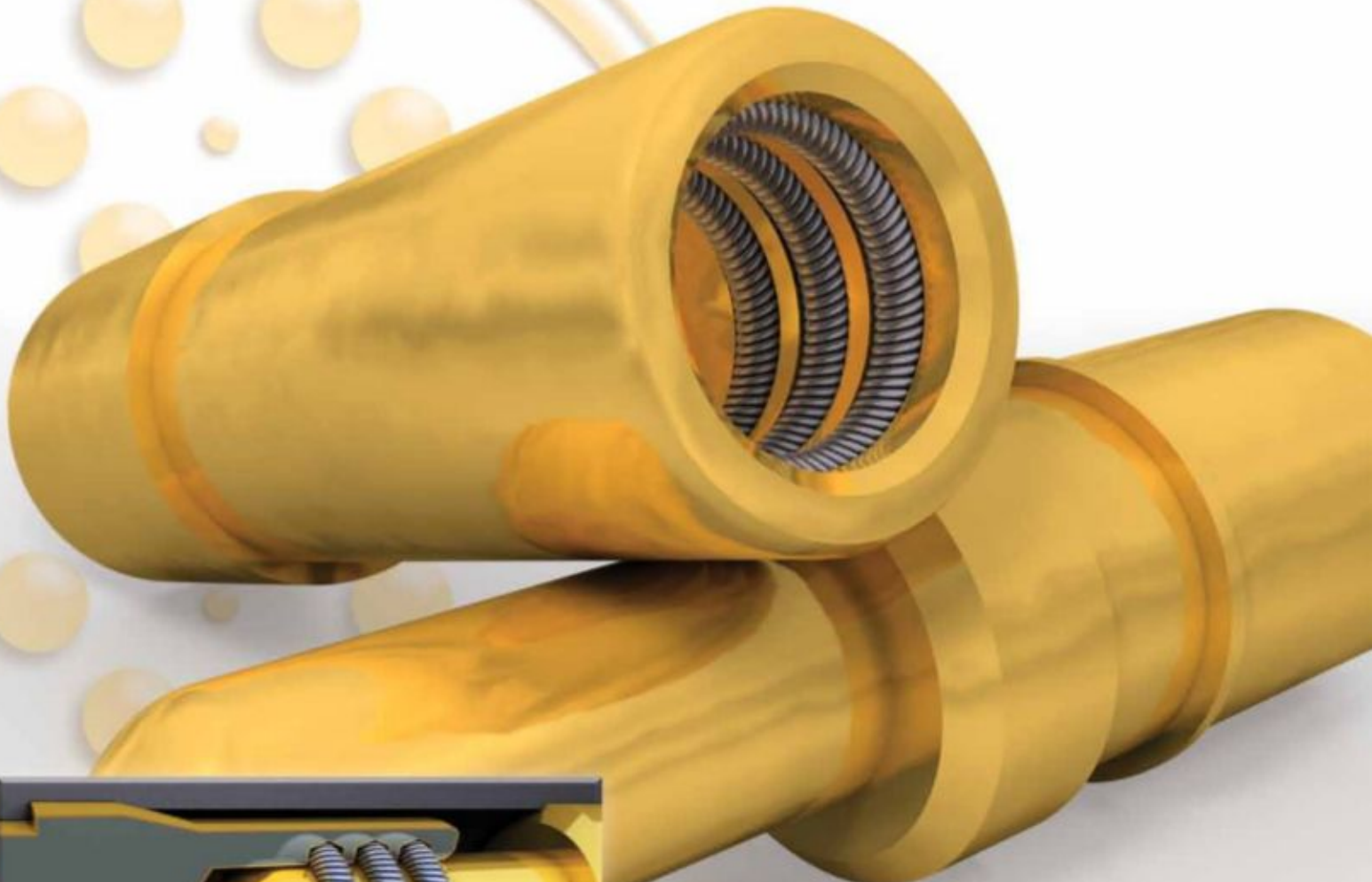


etronics

PowerBand

HIGH CURRENT CONTACTS



High Current
Low Insertion Force
Up to 10,000 Mating Cycles

DIMENSIONS FOR RUBBER RETENTION CONTACTS

R10 - 85 00 - 140

SERIES PREFIX

- R10** Size 1/0 & 4/0 Contacts On y*.
- R12** Size 8 & 4 Contacts On y*.
- R98** A Sizes. MIL DTL 5015 Series III.
- R99** A Sizes. MIL DTL 5015 Series II.
- * MIL DTL 5015 Series I.

MATERIAL/FINISH

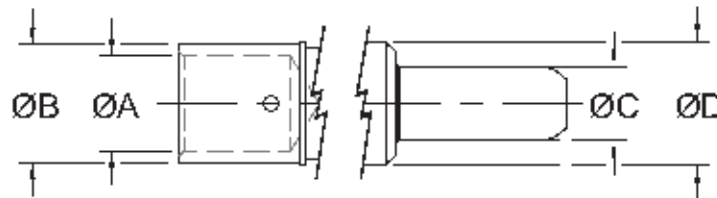
- 110** Copper/Silver.
- 140** Copper/Gold.
- 142** Copper/Gold 0.000030.

WIRE RANGE

Table below shows standard range. Other sizes are available. Consult Sales.

CONTACT SIZE

CODE	79	85	92	97
SIZE	8	4	1/0	4/0



P/N PART NUMBER	SIZE	FOR WIRE SIZE		RATING	ØA		ØB		ØC		ØD	
		AWG	MM ²									
Rxx-7900-110	8	8	9.0	100 A.mps	0.181	[4.60]	0.272	[6.90]	0.142	[3.61]	0.307	[7.80]
Rxx-8500-110	4	4	22.0	168 A.mps	0.281	[7.15]	0.375	[9.50]	0.225	[5.70]	0.433	[11.00]
Rxx-9200-110	1/0	1/0	53.0	304 A.mps	0.453	[11.50]	0.565	[14.35]	0.357	[9.07]	0.595	[15.11]
Rxx-9798-110	4/0	4/0	107.0	500 A.mps	0.650	[16.50]	0.787	[20.00]	0.550	[13.97]	0.787	[20.00]

Dimensions in brackets [] are in mm.

T10 - 85 00 - 140 - 1

SERIES PREFIX

- T10** A Sizes. MIL DTL 5015 Series I.
- T98** A Sizes. MIL DTL 5015 Series III.
- T99** A Sizes. MIL DTL 5015 Series II.

MODIFICATION*

- 1** Standard Duty: 1 Spring.
- 2** Extended Duty: 2 Springs.
- 3** High Current: 3 Springs.

*Applies only to socket contacts sizes 8, 4, 1/0 and 4/0.

MATERIAL/FINISH

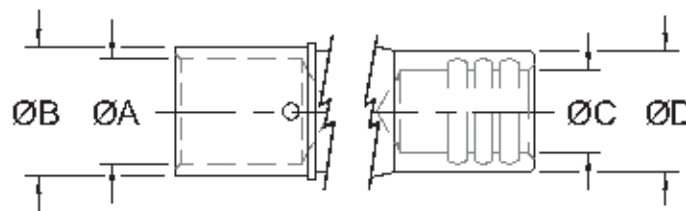
- 110** Copper/Silver.
- 140** Copper/Gold.
- 142** Copper/Gold 0.000030.

CONTACT SIZE

CODE	79	85	92	97
SIZE	8	4	1/0	4/0

WIRE RANGE

Table below shows standard range. Other sizes are available. Consult Sales.



SOCKET PART NUMBER	SIZE	FOR WIRE SIZE		SPRINGS	RATING	ØA		ØB		ØC		ØD	
		AWG	MM ²										
Rxx-7900-110-1	8	8	9	1	46 A.mps	0.181	[4.60]	0.272	[6.90]	0.145	[3.68]	0.265	[6.73]
2				73 A.mps									
3				90 A.mps									
Rxx-8500-110-1	4	4	22	1	80 A.mps	0.281	[7.15]	0.375	[9.50]	0.235	[5.97]	0.336	[8.53]
2				135 A.mps									
3				168 A.mps									
Rxx-9200-110-1	1/0	1/0	53	1	150 A.mps	0.453	[11.50]	0.565	[14.35]	0.368	[9.35]	0.532	[13.51]
2				245 A.mps									
3				304 A.mps									
Rxx-9795-110-1	4/0	4/0	107	1	225 A.mps	0.650	[16.50]	0.787	[20.00]	0.560	[14.22]	0.750	[19.05]
2				350 A.mps									
3				500 A.mps									

Dimensions in brackets [] are in mm.

CONTACT COMPARISONS & TEST RESULTS

Comparison Table

Wire Size	MIL-DTL-5015 Connector Series	Standard Socket P/N	Standard Contact Rating (Amps)	Max. Wire Rating (Amps)	New Contact Rating (Amps)	New Socket P/N ^a	Mating Pin P/N ^a with Springs	Alternate Mating Pin P/N ^a
8	Rubber Retention Series	T12-7900-510	46	90	46	T10-7900-110-1	R12-7900-110	-
					73	T10-7900-110-2		
					90	T10-7900-110-3		
	Front Release Series	M39029/45-298*	46	90	46	T99-7990-110-1	R99-7900-110	M39029/44-291*
					73	T99-7990-110-2		
					90	T99-7990-110-3		
	Rear Release Series	M39029/30-220*	46	90	46	T98-7990-110-1	R98-7900-110	M39029/29-214*
					73	T98-7990-110-2		
					90	T98-7990-110-3		
4	Rubber Retention Series	T12-8500-510	80	168	80	T10-8500-110-1	R12-8500-110	-
					135	T10-8500-110-2		
					168	T10-8500-110-3		
	Front Release Series	M39029/45-299*	80	168	80	T99-8590-110-1	R99-8500-110	M39029/44-292*
					135	T99-8590-110-2		
					168	T99-8590-110-3		
	Rear Release Series	M39029/30-221*	80	168	80	T98-8590-110-1	R98-8500-110	M39029/29-215*
					135	T98-8590-110-2		
					168	T98-8590-110-3		
1/0	Rubber Retention Series	T12-9200-510	150	304	150	T10-9200-110-1	R10-9200-110	-
					245	T10-9200-110-2		
					304	T10-9200-110-3		
	Front Release Series	M39029/45-300*	150	304	150	T99-9290-110-1	R99-9200-110	M39029/44-293*
					245	T99-9290-110-2		
					304	T99-9290-110-3		
	Rear Release Series	M39029/30-222*	150	304	150	T98-9290-110-1	R98-9200-110	M39029/29-216*
					245	T98-9290-110-2		
					304	T98-9290-110-3		
4/0	Rubber Retention Series	T12-9700-510	225	500	225	T10-9795-110-1	R10-9798-110	-
					350	T10-9795-110-2		
					500	T10-9795-110-3		

- Contacts are silver plated. Various gold platings are available.
- See Military drawing for details.

Power Band Heat Rise Test in Free Air

Contact Size	Socket Description	Socket P/N	Results at 10 Minutes			Results at 20 Minutes			Results at 30 Minutes		
			AMPS	Heat Rise (°F)		AMPS	Heat Rise (°F)		AMPS	Heat Rise (°F)	
				Initial Mating	After 500 Matings		Initial Mating	After 500 Matings		Initial Mating	After 500 Matings
#8	Standard	T12-7900-510*	46	18.8°	13.8°	73	40.9°	37.2°	90	64.8°	60.9°
	1 Spring	T10-7900-110-1	46	14.0°	18.0°	73	42.1°	42.8°	90	64.4°	65.9°
	2 Springs	T10-7900-110-2	46	12.8°	17.4°	73	35.7°	37.9°	90	56.0°	58.5°
	3 Springs	T10-7900-110-3	46	12.1°	16.6°	73	33.0°	34.8°	90	51.2°	52.8°
#4	Standard	T12-8500-510*	80	25.7°	21.7°	135	63.3°	64.7°	168	132.7°	135.4°
	1 Spring	T10-8500-110-1	80	16.6°	19.5°	135	73.4°	77.6°	168	101.2°	107.3°
	2 Springs	T10-8500-110-2	80	16.2°	16.7°	135	53.4°	56.0°	168	83.8°	90.4°
	3 Springs	T10-8500-110-3	80	15.2°	15.8°	135	47.7°	50.3°	168	75.2°	82.2°
1/0	Standard	T12-9200-510*	150	19.9°	22.5°	245	54.5°	60.1°	304	97.4°	104.0°
	1 Spring	T10-9200-110-1	150	23.8°	24.7°	245	71.2°	72.7°	304	132.4°	134.2°
	2 Springs	T10-9200-110-2	150	19.4°	20.1°	245	60.7°	62.0°	304	101.8°	102.7°
	3 Springs	T10-9200-110-3	150	17.5°	17.7°	245	56.1°	54.9°	304	95.6°	96.3°
4/0	Standard	T12-9700-510*	225	18.9°	19.5°	350	53.0°	55.4°	500	112.1°	114.1°
	1 Spring	T10-9795-110-1	225	31.1°	32.8°	350	84.8°	85.0°	500	148.9°	152.4°
	2 Springs	T10-9795-110-2	225	27.5°	29.4°	350	58.1°	60.5°	500	72.6°	73.5°
	3 Springs	T10-9795-110-3	225	19.7°	20.9°	350	47.8°	52.2°	500	51.0°	53.5°

- † Standard T12* contacts contain no springs and are shown to represent the results for a "standard" socket.
- ‡ Gold plated contacts. Remainder of contacts are silver plated.