RS Series • MIL-DTL-5015 Series Reverse Bayonet

Standard Solder Contacts & Wire Dimensions

_	N	/ire Range		Max Contact	Jacket	Solder Well	Solder Well	Contact Retention	Separation
Contact Size	AWG	Dia	Potential Drop (Millivolts)	Resistance (Milliohm)	Strip Length	Inside Diameter	Outside Diameter	Axial Load Pounds (Newtons)	Force Min Pounds (Newtons)
#16S	16, 18, 20, 22	.025050 (.64-1.29)	<50	6	.250 (6.4)	.078 (2.0)	.103 (2.6)	10 (44)	.25 (1)
#16	16, 18, 20, 22	.025050 (.64-1.29)	<50	6	.250 (6.4)	.078 (2.0)	.103 (2.6)	10 (44)	.25 (1)
#12	12, 14	.064080 (1.62-2.05)	<42	3	.375 (9.5)	.116 (2.9)	.146 (3.7)	15 (67)	.50 (2)
#8	8, 10	.1012 (2.58-3.26)	<26	1	.500 (12.7)	.209 (5.3)	.256 (6.5)	20 (89)	.75 (3)
#4	4, 6	.1620 (4.11-5.18)	<23	.5	.625 (15.9)	.332 (8.4)	.394 (10.0)	20 (89)	1.00 (4)
#0	0, 1, 2	.2532 (6.54-8.25)	<21	.2	.625 (15.9)	.469 (11.9)	.547 (13.9)	25 (111)	2.00 (9)

Test ratings only. A connector cannot withstand maximum current through all contacts continuously. Please note that the establishment of electrical safety factors is left entirely in the designer's hands, since he or she is in the best position to know what peak voltage, switching surges, transients, etc. can be expected in a particular circuit. Dimensions are in inches (mm) unless otherwise noted.

Current Rating By Contact Size & Wire Size

Wire Size			Contact Size		
(AWG)	#16	#12	#8	#4	#0
22	5A				
20	7.5A				
18	10A		·		
16	13A				
14		17A			
12		23A			
10			33A		
8			46A		
6			·	60A	
4			·	80A	
2					100A
1					125A
0					150A

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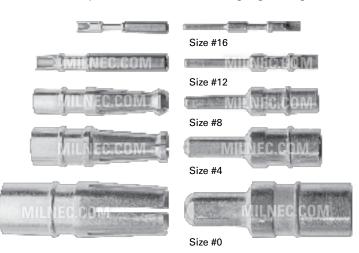
Contact Reducing Bushings

Bushing Part Number	Contact Size	Wire Size	Bushing Inner Diameter	Bushing Outer Diameter
CRB6-10	#6	#10	.136 (3.5)	.225 (5.7)
CRB6-9	#6	#9	.155 (3.9)	.225 (5.7)
CRB6-8	#6	#8	.185 (4.7)	.225 (5.7)
CRB4-8	#4	#8	.185 (4.7)	.272 (6.9)
CRB4-6	#4	#6	.225 (5.7)	.272 (6.9)
CRB4-5	#4	#5	.250 (6.6)	.272 (6.9)
CRB1-6	#1	#6	.225 (5.7)	.396 (10.1)
CRB1-2	#1	#2	.359 (9.1)	.396 (10.1)
CRB0-2	#4/0	#2/0	.500 (12.7)	.629 (16.0)

Contact reducing bushings are required when crimping a smaller wire than the contact is designed for. Dimensions are in inches (mm) unless otherwise noted.

RS Series Contacts

Below are the RS Series solder contacts shown in actual size. This illustration can help determine which size contact will best fit a wire if you do not know the wire gauge being used.







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Standard Crimp Contacts, Sealing Plugs, & Tooling

Contact Size	Wire Size (AWG)	Contact Style	Part Number	Wire Range (Dia)	Jacket Strip Length	Crimping Tool	Positioner (Turret)	Insertion Tool	Extraction Tool
	10 10	Pin	RCPP16S	.040051	245 (0.2)				
#16S	16-18 ·	Socket	RCSS16S	(1.02–1.29)	.245 (6.2)			TN345	
#4.0	10 10	Pin	RCPP16	.040051	245 (0.2)	TK101A	TP291	110345	_ TX250 _ Kit
#16	16-18 ·	Socket	RCSS16	(1.02–1.29)	.245 (6.2)				
	10.14	Pin	RCPP12	.064081	DAE (C. D)			TN082	
#12	12-14	Socket	RCSS12	(1.63–2.05)	.245 (6.2)				
#0	0	Pin	RCPP08	.129	ACE (11.0)		Pico	TN220	-
#8	8 -	Socket	RCSS08	(3.26)	.465 (11.8)		414DA-8N		
4.4	4	Pin RCPP04 .204	ACE (11.0)	Pico	Pico		TX704 [†]		
#4	4	Socket	RCSS04	(5.19)	.465 (11.8)	400BHD	414DA-4N	TN654 [†]	TX742 [†]
#0	0	Pin	RCPP00	.325	F 40 / 10 7)		Pico		TX705 [†]
#0	0 -	Socket	RCSS00	(8.25)	.540 (13.7)		414DA-0N	TN655 ⁺	TX743 [†]

Dimensions are in inches (mm) unless otherwise noted. Additional contact sizes and gold plating are available upon request. [†]Tool used with Arbor press 11-7364.

Contact Derating Specifications

Service	Max Operating Voltage at Sea Level		Voltage in Inches (mm)		Mechanical	Standard Sea Level Conditions		Pressure Altitude 50,000 ft		Pressure Altitude 70,000 ft	
Rating	AC (RMS)	DC	Airspace	Creepage	Spacing Nominal	Min Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Min Flashover Voltage AC (RMS)	Test Voltage AC (RMS)	Min Flashover Voltage AC (RMS)	Test Voltage AC (RMS)
Inst.	200	250	.0312 (.8)	.063 (1.6)	—	1,400	1,000	500	400	325	260
Α	500	700	.063 (1.6)	.125 (3.2)	.063 (1.6)	2,800	2,000	800	600	450	360
D	900	1,250	.125 (3.2)	.188 (4.8)	.125 (3.2)	3,600	2,800	900	675	500	400
E	1,250	1,750	.188 (4.8)	.250 (6.4)	.188 (4.8)	4,500	3,500	1,000	750	550	440
В	1,750	2,450	.250 (6.4)	.313 (8.0)	.250 (6.4)	5,700	4,500	1,100	825	600	480
C	3,000	4,200	.313 (8.0)	1.000 (25.4)	.313 (8.0)	8,500	7,000	1,300	975	700	560

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Torque Values For Cable Clamp Screws

Screw	Recomm	ended Torque				
Size	Min	Max				
#2-56	1.5 (.2)	2.5 (.3)				
#4-40	3.5 (.4)	4.5 (.5)				
#6-32	5 (.6)	7 (.8)				
#8-32	7 (.8)	9 (1.0)				
#10-32	9 (1.0)	11 (1.2)				
#.250-20	11 (1.2)	13 (1.5)				
Units are in inch pounds (Newton meters).						

Wire Sealing Range

Contact Size	Wire Size	Insulation Outside Diameter Range				
	(AWG)	Min	Мах			
#16	16, 18, 20, 22	.064 (1.63)	.130 (3.30)			
#12	12, 14	.114 (2.90)	.170 (4.32)			
#8	8,10	.164 (4.17)	.255 (6.48)			
#4	4, 6	.275 (6.98)	.370 (9.40)			
#0	0, 1, 2	.415 (10.54)	.550 (13.97)			

Dimensions are in inches (mm) unless otherwise noted.



