

Multi-Pin Power Cylindrical Connectors



Primary Markets:

- ▶ Combat Vehicles
- ▶ Industrial Machinery
- ▶ Railway/Transit
- ▶ HMI Lighting



SPACECRAFT
COMPONENTS CORP.

SPACECRAFT AT A GLANCE

**Your Connector Consultant
Since 1962**



Founded in 1962, Spacecraft is a family-owned, leading manufacturer and distributor of cylindrical connectors for the railways/transit, military, aerospace and various harsh environment markets.

As a Manufacturer, Spacecraft's core focus is manufacturing reverse bayonet connectors geared towards railway and transit applications. Our extensive engineering and manufacturing experience with reverse bayonet connectors provides us with the opportunity to offer a broad range of derivative cylindrical products in a short period of time with an assurance of exceptional quality.

As a Distributor, Spacecraft has developed key partnerships with world-class manufacturers whose products encompass MIL-SPEC and harsh environment industrial connectors. We are an authorized MIL-STD-790 value-added assembler for our principal connector manufacturers, such as Souriau, Reiku, Corsair, Sunbank, Astro Tool Corp., Mencom and Ulti-Mate. We stock a wide and deep variety of QPL components which enables us to provide a vast assortment of completed QPL connectors within a three-day turnaround.

As an Organization, Spacecraft prides itself on providing consultative service by utilizing our greatest asset: Our people!

Spacecraft invites you to tour our best-in-class facility located in North Las Vegas, Nevada, USA.

Spacecraft's Core Values

- MIL-STD-790 Certified
- Over 9 Million Connectors in Inventory
- Technical Solutions Oriented
- A Consultative Sales Team
- Vertically Integrated
- Supporter of the Buy American Act



Exceeding Your Quality Expectations

Spacecraft Components Corp. warrants to the original purchaser that it will correct by replacement any defect in workmanship or in-operation of any component purchased from Spacecraft Components Corp. for the life of the equipment in which the component is originally and properly installed. This agreement and warranty supersedes all other warranties expressed or implied.



CIDS (Connector Identification System)

Your Online Source for MIL-SPEC Cylindrical Connectors

Mission Statement

To provide a work environment where our employees can meet their potential and thrive in an atmosphere of excellence by utilizing their strengths and attributes towards supporting our customers, thereby providing superior products and exceptional service which helps our customers gain a competitive advantage in their markets.

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 Mexico Office +52 442 341 69 63
 Italy Office +39 (335) 719.4512



- Access to MIL-SPEC Data Sheets in an Instant
- Identify Crimp Tools for Your Contacts
- Identify the Mating Connector
- Identify the Accessories for Your Connector



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MULTI-PIN CYLINDRICAL POWER CONNECTORS

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Spacecraft's
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for Ordering Information



YOUR
**CONNECTOR
CONSULTANT**
SINCE 1962

 **SPACECRAFT
COMPONENTS CORP.**

860-355-8100

SECTION 9A

MIL-DTL-5015

SPECIAL FEATURES

TECHNICAL DATA

CONTACTS & TOOLS

SPECIAL FEATURES

Spacecraft can supply connectors with:

1. Plugs with a self-locking coupling nut, which eliminates the need for safety wire. A low-cost coupling mechanism is available for all series.
2. Our connectors can provide superior EMI/RFI shielding by:
 - A. Providing full accessory teeth at the rear of the connector shell, thus minimizing "leakage".
 - B. To further enhance performance, plugs can be supplied with grounding fingers around the outside of the barrel.
 - C. Receptacles can be supplied with an internal grounding spring.
3. Shells/hardware can be provided in a high impact/strength aluminum as well as carbon steel, 300 series stainless and naval brass.
4. A wide range of finishes are available:
 - A. Anodize - both hard and soft.
 - B. Cadmium to pass 48, 96, 500 or 1000 hours salt spray.
 - C. Electroless nickel.
 - D. Zinc Boron.
 - E. Zinc Cobalt in black or olive drab.
5. Standard insert material is neoprene, but can be provided in fuel resistant Viton or halogen-free neoprene.
6. Various backshell configurations are available for environmental and non-environmental applications together with EMI/RFI protection. See our Catalog 401 for details.

MIL-DTL-5015

TECHNICAL DATA

TABLE I. CONTACT ARRANGEMENT SERVICE RATING

MS SERVICE RATING	RECOMMENDED OPERATING VOLTAGE* AT SEA LEVEL		EFFECTIVE CREEPAGE DISTANCE NOM.	MECHANICAL SPACING NOM.
	DC	AC (RMS)		
INST	250	200	1/16	
A	700	500	1/8	1/16
D	1250	900	3/16	1/8
E	1750	1250	1/4	3/16
B	2450	1750	5/16	1/4
C	4200	3000	1	5/16

* The values listed in Table I represent operating values which include a generous safety factor. It may be necessary for some applications to exceed the operating voltages listed here. If this is necessary, designers will find Table II useful for determining the degree to which the recommended values of Table I can be exceeded.

ELECTRICAL SERVICE DATA

Test current ratings of contacts and allowable voltage drop under test conditions when assembled as in service are shown below. Maximum total current to be carried per connector is the same as the allowable in wire bundles as specified in MIL-W-5088.

ALTITUDE VOLTAGE DERATING CHART**

MS SERVICE RATING	NOMINAL DISTANCE		STANDARD SEA LEVEL CONDITIONS		PRESSURE ALTITUDE† 50,000 FEET		PRESSURE ALTITUDE† 70,000 FEET	
	AIRSPACE	CREEPAGE	MINIMUM FLASHOVER VOLTAGE AC (RMS)	TEST VOLTAGE AC (RMS)	MINIMUM FLASHOVER VOLTAGE AC (RMS)	TEST VOLTAGE AC (RMS)	MINIMUM FLASHOVER VOLTAGE AC (RMS)	TEST VOLTAGE AC (RMS)
INST	1/32	1/16	1400	1000	550	400	325	260
A	1/16	1/8	2800	2000	800	600	450	360
D	1/8	3/16	3600	2800	900	675	500	400
E	3/16	1/4	4500	3500	1000	750	550	440
B	1/4	5/16	5700	4500	1100	825	600	480
C	5/16	1	8500	7000	1300	975	700	560

† Not corrected for changes in density due to variations in temperature.

** No attempt has been made to recommend operating voltages. The designer must determine his own operating voltage by the application of a safety factor to the above derating chart to compensate for circuit transients, surges, etc.

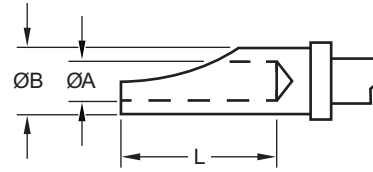
CONTACT RATINGS

CONTACT SIZE	WIRE SIZE	RATED CURRENT	POTENTIAL DROP	MAX CURRENT
20	20	7.5A	83 mV	7.5A
18	18	7.5	83 mV	10A
16 & 16S	16 AWG	13 A	49 mV	22A
12	12 AWG	23 A	42 mV	41A
8	8 AWG	46 A	26 mV	73A
4	4 AWG	80 A	23 mV	135A
0	0 AWG	150 A	21 mV	245A
4/0	4/0	225A	53 mV	350A



SOLDER CONTACT CURRENT RATINGS*

MATING END SIZE	WIRE BARREL SIZE	ALLOWABLE WIRE SIZE	TEST CURRENT** AMPS
15/16S	16	16 18 20 22	13 10 7.5 5
12	12	12 14	23 17
8	8	8 10	46 33
4	4	4 6	80 60
0	0	0 1 2	150 125 100



SOLDER CUP DIMENSIONS

CONTACT SIZE	A MIN	B	L
16	.069 [1.75]	.096/.116 [2.43/2.94]	.250/.313 [6.35/7.95]
12	.112 [2.84]	.130/.150 [3.30/3.81]	.375/.438 [9.52/11.12]
8	.205 [5.20]	.243/.259 [6.17/6.57]	.500/.563 [12.70/14.30]
4	.328 [8.33]	.370/.397 [9.39/10.08]	.625/.688 [15.87/17.47]
0	.464 [11.78]	.510/.550 [12.95/13.97]	.625/.688 [15.87/17.47]

Dimensions in brackets [] are in millimeters.

TABLE II. WIRE RANGE ACCOMMODATIONS

CONTACT SIZE	WIRE SIZE	ØD OF FINISHED WIRE (INCH)					
		SOLDER CONTACT CONNECTORS		CRIMP CONTACT CONNECTORS			
		MIN	MAX	FRONT RELEASE		REAR RELEASE	
16-16	20 18 16	.064 [1.63]	.130 [3.30]	0.66 [1.68]	.130 [3.30]	.053 [1.35]	.103 [2.62]
12-12	14 12	.114 [2.90]	.170 [4.32]	.097 [2.46]	.170 [4.32]	.085 [2.16]	.158 [4.01]
8-8	10 8	.164 [4.17]	.255 [6.48]	.132 [3.35]	.255 [6.48]	.132 [3.35]	.255 [6.48]
4-4	6 4	.272 [6.91]	.370 [9.40]	.237 [6.02]	.370 [9.40]	.237 [6.02]	.370 [9.40]
0-0	2 0	.415 [10.54]	.550 [13.97]	.360 [9.14]	.550 [13.97]	.360 [9.14]	.550 [13.97]

* Solder Wells Filled

** Contact ratings as stated are test ratings only. The connector could not withstand full rated current through all contacts continuously. Please note that the electrical data given is not an establishment of electrical safety factors. This is left entirely in the designer's hands as he can best determine which peak voltage, switching surges, transients, etc., can be expected in a particular circuit.

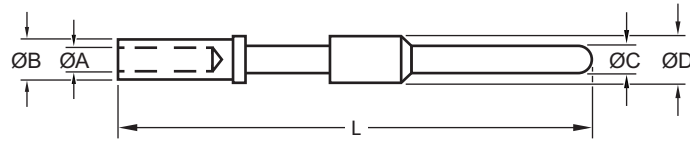
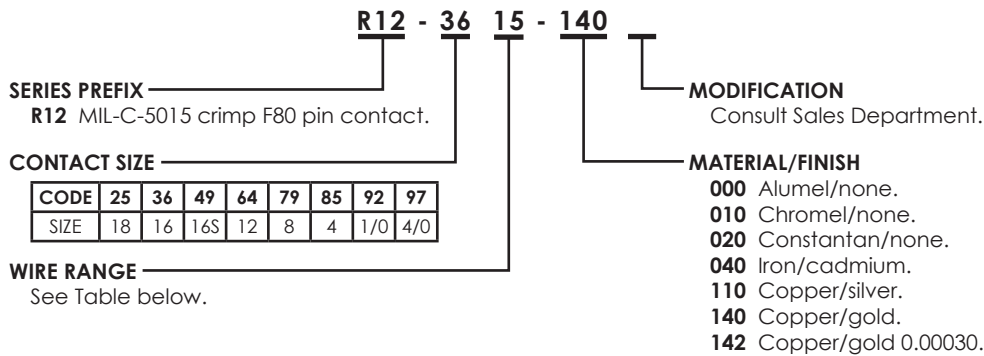
MIL-DTL-5015 SERIES I - SOLDER CONTACTS

SIZE	PIN	PIN FILLED SOLDER CUP (NOTE 1)	SOCKET (NOTE 1)	SOCKET FILLED SOLDER CUP (NOTE 1)	MATERIAL	FINISH	COLOR CODE
16S	P12-5100-310	P12-5100-315	S12-5100-610	S12-5100-615	Note 2	Silver	—
16S	P12-5100-000	—	S12-5100-000	—	Alumel	None	Green
16S	P12-5100-010	—	S12-5100-010	—	Chromel	None	White
16S	P12-5100-020	—	S12-5100-020	—	Constantan	Cadmium	Black
16S	P12-5100-040	—	S12-5100-040	—	Iron	None	Yellow
16	P12-3800-310	P12-3800-315	S12-3800-610	S12-3800-615	Note 2	Silver	—
16	P12-3800-000	—	S12-3800-000	—	Alumel	None	Green
16	P12-3800-010	—	S12-3800-010	—	Chomel	None	White
16	P12-3800-020	—	S12-3800-020	—	Constantan	None	Black
16	P12-3800-040	—	S12-3800-040	—	Iron	Cadmium	Yellow
12	P12-6500-310	P12-6500-315	S12-6500-610	S12-6500-615	Note 2	Silver	—
12	P12-6500-000	—	S12-6500-000	—	Alumel	None	Green
12	P12-6500-010	—	S12-6500-010	—	Chromel	None	White
12	P12-6500-020	—	S12-6500-020	—	Constantan	None	Black
12	P12-6500-040	—	S12-6500-040	—	Iron	Cadmium	Yellow
8	P12-7900-310	P12-7900-315	S12-7900-510	S12-7900-515	Note 2	Silver	—
4	P12-8500-310	P12-8500-315	S12-8500-510	S12-8500-515	Note 2	Silver	—
1/0	P12-9200-310	P12-9200-315	S12-9200-510	S12-9200-515	Note 2	Silver	—

MIL-DTL-5015 SERIES I

PIN F80 CRIMP CONTACTS

ORDERING INFORMATION



PART NUMBER	SIZE	MATERIAL	FINISH	FOR WIRE SIZE		A	B	C	D	L
				AWG	MM					
R12-2500-110	18	Copper	Silver	20-26	0.60-0.15	.052 [1.30]	.076 [1.93]	.055 [1.46]	0.95 [2.40]	1.165 [29.61]
R12-3632-110	16	Copper	Silver	28-32	-	.018 [0.45]	.077 [1.95]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3608-110	16	Copper	Silver	24-26	0.20-0.15	.034 [0.85]	.061 [1.55]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3613-110	16	Copper	Silver	20-26	0.60-0.15	.052 [1.30]	.076 [1.93]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3612-110	16	Copper	Silver	20	0.60	.048 [1.20]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3615-110	16	Copper	Silver	18	1.0	.060 [1.50]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3600-110	16	Copper	Silver	16-18	1.5-1.0	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3600-000	16	Alum el	None	16	1.5-1.0	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3600-010	16	Chromel	None	16	1.5-1.0	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3600-020	16	Constantan	None	16	1.5-1.0	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3600-040	16	Iron	Cadmium	16	1.5-1.0	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3620-110	16	Copper	Silver	14	2.0	.078 [2.00]	.115 [2.90]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-3626-110	16	Copper	Silver	12	3.0	.099 [2.50]	.150 [3.80]	.062 [1.58]	.126 [3.20]	1.250 [31.75]
R12-4913-110	16S	Copper	Silver	20-26	0.60-0.15	.052 [1.30]	.076 [1.93]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4912-110	16S	Copper	Silver	20	0.60	.048 [1.20]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4915-110	16S	Copper	Silver	18	1.0	.060 [1.50]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4900-110	16S	Copper	Silver	16-18	1.5	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4900-000	16S	Alum el	None	16	1.5	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4900-010	16S	Chromel	None	16	1.5	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4900-020	16S	Constantan	None	16	1.5	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4900-040	16S	Iron	Cadmium	16	1.5	.067 [1.70]	.102 [2.60]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4920-110	16S	Copper	Silver	14	2.0	.078 [2.00]	.115 [2.90]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-4926-110	16S	Copper	Silver	12	3.0	.099 [2.50]	.150 [3.80]	.062 [1.58]	.126 [3.20]	1.050 [26.65]
R12-6412-110	12	Copper	Silver	20	0.60	.048 [1.20]	.102 [2.60]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6415-110	12	Copper	Silver	18	1.0	.060 [1.50]	.134 [3.40]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6420-110	12	Copper	Silver	14-18	2.0-1.0	.078 [2.00]	1.50 [3.80]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6422-110	12	Copper	Silver	-	2.5	.087 [2.20]	1.50 [3.80]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6400-110	12	Copper	Silver	12	3.0	.099 [2.50]	.154 [3.90]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6400-000	12	Alumel	None	12	3.0	.099 [2.50]	.154 [3.90]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6400-010	12	Chromel	None	12	3.0	.099 [2.50]	.154 [3.90]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6400-020	12	Constantan	None	12	3.0	.099 [2.50]	.154 [3.90]	.093 [2.38]	.189 [4.80]	1.480 [37.65]

continued on next page

SERIES I **MIL-DTL-5015**
PIN **F80** CRIMP CONTACTS

PART NUMBER	SIZE	MATERIAL	FINISH	FOR WIRE SIZE		A	B	C	D	L
				AWG	MM					
R12-6400-040	12	Iron	Cadmium	12	3.0	.099 [2.50]	.154 [3.90]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6430-110	12	Copper	Silver	-	4.0	.118 [3.00]	.176 [4.80]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6431-110	12	Copper	Silver	-	4.0	.130 [3.30]	.166 [4.20]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6438-110	12	Copper	Silver	10	6.0	.142 [3.60]	.176 [4.80]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-6408-110	12	Copper	Silver	8	9.0	.177 [4.50]	.272 [6.90]	.093 [2.38]	.189 [4.80]	1.480 [37.65]
R12-7915-110	8	Copper	Silver	18	1.0	0.60 [1.50]	.134 [3.40]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-7918-110	8	Copper	Silver	14-18	2.0-1.0	0.71 [1.80]	.150 [3.80]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-7926-110	8	Copper	Silver	12	3.0	.099 [2.50]	.154 [3.90]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-7930-110	8	Copper	Silver	-	4.0	.118 [3.00]	.176 [4.80]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-7900-110	8	Copper	Silver	8	9.0	.177 [4.50]	.272 [6.90]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-7950-110	8	Copper	Silver	-	10.0	.201 [5.00]	.272 [6.90]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-7958-110	8	Copper	Silver	-	13.2	.229 [5.80]	.307 [7.80]	.141 [3.59]	.307 [7.80]	1.603 [40.70]
R12-8522-110	4	Copper	Silver	-	2.5	.087 [2.20]	.150 [3.80]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8526-110	4	Copper	Silver	12	3.0	.099 [2.50]	.150 [3.80]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8530-110	4	Copper	Silver	-	4.0	.118 [3.00]	.189 [4.80]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8550-110	4	Copper	Silver	-	10.0	.201 [5.00]	.275 [7.00]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8562-110	4	Copper	Silver	-	16.0	.244 [6.20]	.374 [9.50]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8500-110	4	Copper	Silver	4	22.0	.280 [7.10]	.375 [9.53]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8525-110	4	Copper	Silver	-	25.0	.307 [7.80]	.374 [9.50]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-8535-110	4	Copper	Silver	-	35.0	.354 [9.00]	.565 [14.35]	.225 [5.70]	.433 [11.00]	1.625 [41.25]
R12-9245-110	1/0	Copper	Silver	8	9.0	.177 [4.55]	.268 [6.80]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9250-110	1/0	Copper	Silver	-	10.0	.201 [5.00]	.275 [7.00]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9246-110	1/0	Copper	Silver	4	22.0	.281 [7.15]	.375 [9.53]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9225-110	1/0	Copper	Silver	-	25.0	.307 [7.80]	.374 [9.50]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9235-110	1/0	Copper	Silver	-	35.0	.354 [9.00]	.565 [14.35]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9275-110	1/0	Copper	Silver	-	50.0	.421 [10.70]	.565 [14.35]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9200-110	1/0	Copper	Silver	1/0	53.0	.453 [11.50]	.565 [14.35]	.356 [9.05]	.595 [15.11]	1.803 [46.50]
R12-9790-110	4/0	Copper	Silver	2	33.5	.354 [9.0]	.565 [14.35]	.500 [12.69]	.787 [20.0]	2.35 [59.7]
R12-97115-110	4/0	Copper	Silver	1/0	53.0	.453 [11.5]	.565 [14.35]	.500 [12.69]	.787 [20.0]	2.33 [59.2]
R12-97135-110	4/0	Copper	Silver	2/0	67.4	.532 [13.5]	.650 [16.5]	.500 [12.69]	.787 [20.0]	2.40 [60.9]
R12-9700-110	4/0	Copper	Silver	4/0	107.0	.650 [16.5]	.787 [20.0]	.500 [12.69]	.787 [20.0]	2.60 [65.9]

Dimensions in brackets [] are in millimeters.

MIL-DTL-5015 SERIES I

SOCKET F80 CRIMP CONTACTS

ORDERING INFORMATION

T12 - 36 15 - 540

SERIES PREFIX
T12 MIL-C-5015 crimp F80 socket contact.

CONTACT SIZE

CODE	25	36	49	64	79	85	86	92	93	97
SIZE	18	16	16S	12	8	4	4*	1/0	1/0*	4/0

* Indicates closed entry socket.

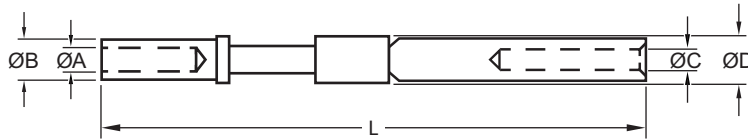
WIRE RANGE
See Table below.

MODIFICATION
Consult Sales Department.

MATERIAL/FINISH

000	Alumel/none.	140	Copper/gold.
010	Chromel/none.	142	Copper/gold 0.00030
020	Constantan/none.	510*	Copper/silver.
040	Iron/cadmium.	540*	Copper/gold.
110	Copper/silver.	542*	Copper/gold 0.00030

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



PART NUMBER	SIZE	MATERIAL	FINISH	FOR WIRE SIZE		A	B	C	D	L
				AWG	MM²					
T12-2500-110	18	Copper	Silver	20-26	0.60-0.15	.052 [1.30]	.076 [1.93]	.056 [1.46]	.095 [2.40]	1.197 [34.4]
T12-3632-110	16	Copper	Silver	28-32	-	.018 [0.45]	.077 [1.95]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3608-110	16	Copper	Silver	24-26	0.20-0.15	.034 [0.85]	.061 [1.55]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3613-110	16	Copper	Silver	20-26	0.60-0.15	.052 [1.30]	.076 [1.93]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3612-110	16	Copper	Silver	20	0.60	.048 [1.20]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3615-110	16	Copper	Silver	18-20	1.0	.060 [1.50]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3600-110	16	Copper	Silver	16-18	1.5-1.0	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3600-000	16	Alumel	None	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3600-010	16	Chromel	None	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3600-020	16	Constantan	None	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3600-040	16	Iron	Cadmium	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3620-110	16	Copper	Silver	14	2.0	.078 [2.00]	.115 [2.90]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-3626-110	16	Copper	Silver	12	3.0	.099 [2.50]	.150 [3.80]	.065 [1.65]	.126 [3.20]	1.440 [36.50]
T12-4913-110	16S	Copper	Silver	20-26	0.60-0.15	.052 [1.30]	.076 [1.93]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4912-110	16S	Copper	Silver	20	0.60	.048 [1.20]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4915-110	16S	Copper	Silver	18	1.0	.060 [1.50]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4900-110	16S	Copper	Silver	16-18	1.5-1.0	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4900-000	16S	Alumel	None	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4900-010	16S	Chromel	None	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4900-020	16S	Constantan	None	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4900-040	16S	Iron	Cadmium	16	1.5	.067 [1.70]	.102 [2.60]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4920-110	16S	Copper	Silver	14	2.0	.078 [2.00]	.115 [2.90]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-4926-110	16S	Copper	Silver	12	3.0	.099 [2.50]	.150 [3.80]	.065 [1.65]	.126 [3.20]	1.050 [26.65]
T12-6412-110	12	Copper	Silver	20	0.60	.048 [1.20]	.102 [2.60]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6415-110	12	Copper	Silver	18	1.0	.060 [1.50]	.134 [3.40]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6420-110	12	Copper	Silver	14-18	2.0-1.0	.078 [2.00]	.150 [3.80]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6422-110	12	Copper	Silver	-	2.5	.087 [2.20]	.150 [3.80]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6400-000	12	Alum el	None	12	3.0	.099 [2.50]	.154 [3.90]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6400-010	12	Chromel	None	12	3.0	.099 [2.50]	.154 [3.90]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6400-020	12	Constantan	None	12	3.0	.099 [2.50]	.154 [3.90]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6400-040	12	Iron	Cadmium	12	3.0	.099 [2.50]	.154 [3.90]	.098 [2.48]	.189 [4.80]	1.480 [37.65]

Dimensions in brackets [] are in millimeters.

continued on next page

SERIES I **MIL-DTL-5015**
SOCKET F80 CRIMP CONTACTS

PART NUMBER	SIZE	MATERIAL	FINISH	FOR WIRE SIZE		A	B	C	D	L
				AWG	MM ²					
T12-6400-110	12	Copper	Silver	12	3.0	.099 [2.50]	.154 [3.90]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6430-110	12	Copper	Silver	-	4.0	.118 [3.00]	.176 [4.80]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6431-110	12	Copper	Silver	-	4.0	.130 [3.30]	.166 [4.20]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6438-110	12	Copper	Silver	10	6.0	.142 [3.60]	.176 [4.80]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-6408-110	12	Copper	Silver	8	9.0	.177 [4.50]	.272 [6.90]	.098 [2.48]	.189 [4.80]	1.480 [37.65]
T12-7915-510	8	Copper	Silver	18	1.0	.060 [1.50]	.134 [3.40]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-7918-510	8	Copper	Silver	14-18	2.0-1.0	.071 [1.80]	.150 [3.80]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-7926-510	8	Copper	Silver	12	3.0	.099 [2.50]	.154 [3.90]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-7930-510	8	Copper	Silver	-	4.0	.118 [8.00]	.176 [4.80]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-7900-510	8	Copper	Silver	8	9.0	.177 [4.50]	.272 [6.90]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-7950-510	8	Copper	Silver	-	10.0	.201 [5.00]	.272 [6.90]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-7958-510	8	Copper	Silver	6	13.2	.229 [5.80]	.307 [7.80]	.147 [3.73]	.307 [7.80]	1.595 [40.50]
T12-8522-510	4	Copper	Silver	-	2.5	.087 [2.20]	.150 [3.80]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8526-510	4	Copper	Silver	12	3.0	.099 [2.50]	.150 [3.80]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8530-510	4	Copper	Silver	-	4.0	.118 [3.00]	.189 [4.80]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8550-510	4	Copper	Silver	-	10.0	.201 [5.00]	.275 [7.00]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8562-510	4	Copper	Silver	-	16.0	.244 [6.20]	.374 [9.50]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8500-510	4	Copper	Silver	4	22.0	.281 [7.15]	.375 [9.50]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8525-510	4	Copper	Silver	-	25.0	.307 [7.80]	.374 [9.50]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-8535-510	4	Copper	Silver	-	35.0	.354 [9.00]	.565 [14.35]	.230 [5.84]	.433 [11.00]	1.625 [41.25]
T12-9245-510	1/0	Copper	Silver	8	9.0	.177 [4.55]	.268 [6.80]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9250-510	1/0	Copper	Silver	-	10.0	.201 [5.00]	.275 [7.00]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9246-510	1/0	Copper	Silver	4	22.0	.281 [7.15]	.375 [9.53]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9225-510	1/0	Copper	Silver	-	25.0	.307 [7.80]	.374 [9.50]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9235-510	1/0	Copper	Silver	-	35.0	.354 [9.00]	.565 [14.35]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9275-510	1/0	Copper	Silver	-	50.0	.421 [10.70]	.565 [14.35]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9200-510	1/0	Copper	Silver	1/0	53.0	.453 [11.50]	.565 [14.35]	.365 [9.20]	.595 [15.11]	1.830 [46.50]
T12-9790-510	4/0	Copper	Silver	2	33.5	.354 [9.0]	.565 [14.35]	.506 [12.85]	.787 [20.0]	2.29 [58.2]
T12-97115-510	4/0	Copper	Silver	1/0	53.0	.453 [11.5]	.565 [14.35]	.506 [12.85]	.787 [20.0]	2.22 [56.3]
T12-97135-510	4/0	Copper	Silver	2/0	67.4	.532 [13.5]	.650 [16.5]	.506 [12.85]	.787 [20.0]	2.28 [58.0]
T12-9700-510	4/0	Copper	Silver	4/0	107.0	.650 [16.5]	.787 [20.0]	.506 [12.85]	.787 [20.0]	2.49 [63.0]

Dimensions in brackets [] are in millimeters.

907-2*** SERIES

CRIMP ADAPTER FOR WIRE SIZE SMALLER/LARGER THAN CONTACT

907 - 2 XXX - XXX

SERIES PREFIX

CONTACT SIZE

1 For Wire Size Larger Than Contact

2 For Wire Size Smaller Than Contact

DESCRIPTIVE NUMBER

MATERIAL/FINISH

CODE	MATERIAL	FINISH
-000*	360 BRASS	SILVER OVER NICKEL
-011*	360 BRASS	SILVER OVER NICKEL
-100	353 BRASS	UNPLATED
-110	353 BRASS	SILVER OVER NICKEL
-140	353 BRASS	LIGHT GOLD OVER NICKEL
-142	353 BRASS	HEAVY GOLD OVER NICKEL

* Material/Finish codes -000 & -011 are obsolete, both replaced by -110

CRIMP CONTACT WIRE BARREL SIZE AWG	WIRE SIZE AWG	WIRE SIZE MM	PART NUMBER	A +.002 -.003	B +.002 -.003	C ±.015	D ±.010	E ±.010	F ±.005
22	20		907-1050-***	See page 9A-10					
20	26	0.15	907-2005-***						
20	26		907-2011-***	#.023	.042	.120	.069	.015	.050
20	24-30		907-2010-***	.027	.042	.120	.069	.015	.050
20	16		907-1040-***	See page 9A-10					
20	12		907-1030-***						
16		0.12	907-2012-***		.063			.015	.068
16	26		907-2013-***		.063			.015	.068
16	24		907-2016-***		.063			.015	.068
16	22-24		907-2020-***	.035	.063	.230	.100	.015	.068
16	22		907-2021-***	#.035	.063	.230	.100	.015	.050
16	22		907-2022-***	.035	.063	.190	.100	.015	.068
16	22		907-2025-***	.043	.059	.149	.100	.015	.068
16	20	0.60	907-2030-***	.045	.063	.230	.100	.015	.068
16	12		907-1020-***	See page 9A-10					
14	22		907-2037-***	.043	.070	.230	.100	.015	.068
12	18		907-2039-***		.094		.140	.015	
12	20		907-2038-***	.046	.094	.221	.140	.015	
12	16	1.50	907-2040-***	.069	.094	.230	.140	.015	.092
12	10		907-1010-***	See page 9A-10					
6.0 MM		1.50	907-2043-***					.015	
6.0 MM		2.50	907-2045-***					.015	
8	18	1.0	907-2049-***		.173		.250	.031	.188
8	16	1.5	907-2050-***	.069	.173	.380	.250	.031	.188
8		2.5	907-2053-***		.173		.250	.031	.188
8	14		907-2055-***	.086	.173	.422	.250	.031	.188
8		4.0	907-2056-***		.173		.250	.031	.188
8	12	3.0	907-2060-***	.098	.173	.380	.250	.031	.188
8	12		907-2061-***	@.101	.173	.380	.250	.031	.188
8	12		907-2062-***	@.101	.173	.380	.250	.031	.188
8	10		907-2068-***		.173		.250	.031	.188
8	10		907-2070-***	.136	.173	.380	.250	.031	.188
8		6.0	907-2071-***		.173		.250	.031	.188
10 MM	12	3.0	907-2077-***				.250	.031	.188
6	10		907-2080-***	.136	.225	.700	.297	.031	.188
6	9		907-2090-***	.155	.225	.700	.297	.031	.219
6	8	9.0	907-2100-***		.225		.297	.031	
16 MM		2.5	907-2102-***					.031	
16 MM		4.0	907-2103-***					.031	

LEGEND: # = ± .001 @ = ± .002

continued on next page

CRIMP ADAPTER FOR WIRE SIZE SMALLER/LARGER THAN CONTACT

CRIMP CONTACT WIRE BARREL SIZE AWG	WIRE SIZE AWG	WIRE SIZE MM	PART NUMBER	A +.002 -.003	B +.002 -.003	C ±.015	D ±.010	E ±.010	F ±.005
16 MM		6.0	907-2105-***					.031	
16 MM		10.0	907-2107-***	@.197				.031	
4	10		907-2108-***	.136	.272	.373	.344	.031	.219
4		6.0	907-2109-***		.272	.380	.344	.031	
4	8	9.0	907-2110-***	.185	.272	.380	.344	.031	.250
4	8		907-2111-***	.185	.272	.700	.344	.031	.250
4		10	907-2112-***	@.197	.272	.380	.344	.031	.250
4		15	907-2113-***		.272	.380	.344	.031	.250
4		10.0	907-2114-***	@.244	.272	.380	.344	.031	.250
4	6	13.2	907-2117-***		.272	.380	.344	.031	
4	12		907-2118-***		.272	.380	.344	.031	
4		2.5	907-2119-***		.272	.380	.344	.031	
4	6	13.2	907-2120-***	.225	.272	.380	.344	.031	.292
4	6	13.2	907-2130-***	.225	.272	.700	.344	.031	.292
4	5		907-2140-***	.250	.272	.380	.344	.031	.292
4	5		907-2150-***	.244	.272	.380	.344	.031	.292
4		15.0	907-2152-***		.272	.380	.344	.031	
4		16.0	907-2153-***		.272	.380	.344	.031	
25 MM		6.0	907-2155-***						
25 MM		16.0	907-2156-***						
2	4		907-2158-***						
1	6	13.2	907-2160-***	.225	.396	.700	.516	.031	.422
1	2		907-2170-***	.359	.396	.700	.516	.031	.422
50 MM		25.0	907-2171-***					.031	
1/0	10		907-2172-***	.136	.444	.644		.031	
1/0	8	9.0	907-2173-***	.185	.444	.644		.031	
1/0		10.0	907-2174-***		.444			.031	
1/0	6	13.2	907-2175-***		.444			.031	
1/0		16.0	907-2176-***		.444			.031	
1/0		20.0	907-2178-***		.444			.031	
1/0		25.0	907-2179-***		.444			.031	
1/0	4		907-2180-***	.299	.444	.536	.462	.031	.462
1/0		10.0	907-2181-***	@.197	.444	.500	.516	.031	.462
1/0	2	16.0	907-2182-***	@.244	.444	.500	.516	.031	.462
1/0		25.0	907-2183-***	@.307	.444	.500	.516	.031	.462
1/0		35.0	907-2184-***	@.354	.444	.500	.516	.031	.462
1/0		50.0	907-2185-***	@.421	.444	.500	.516	.031	.462
1/0	2		907-2190-***	.359	.444	.536	.516	.031	.462
1/0	2		907-2210-***	.417	.444	.536	.462	.031	.462
1/0	1		907-2200-***	.390	.444	.536	.462	.031	.462
1/0		35.0	907-2201-***		.444			.031	
1/0		50.0	907-2202-***		.444			.031	
2/0	2		907-2203-***	.359	.491	.528		.031	
2/0		25.0	907-2204-***		.491			.031	
2/0		70.0	907-2205-***		.491			.031	
2/0		50.0	907-2206-***		.491			.031	
70 MM		25.0	907-2210-***					.031	
70 MM		50.0	907-2211-***					.031	
95 MM		70.0	907-2207-***					.031	
4/0	2	67.4	907-2219-***		.629	.700	.719	.031	.462
4/0	2/0	67.4	907-2220-***	.500	.629	.700	.719	.031	.562
4/0	3/0	67.4	907-2221-***		.629	.700	.719	.031	.562
150 MM		70.0	907-2230-***	.500	.629	.700	.719	.031	.562
190 MM	4/0	107.0	907-2240-***					.031	
DIN500		16.0	907-2250-***					.031	
DIN500		35.0	907-2253-***					.031	

LEGEND: # = ± .001 @ = ± .002



907-10*** SERIES

CRIMP ADAPTER FOR WIRE SIZE LARGER THAN CONTACT

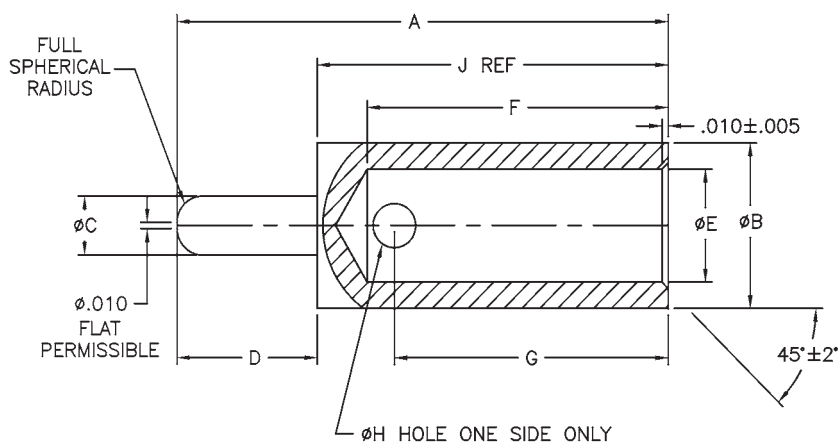
907 - 1 XXX - XXX

SERIES PREFIX ——— **CONTACT SIZE** ——— **DESCRIPTIVE NUMBER** ——— **MATERIAL/FINISH**

1 For Wire Size Larger Than Contact
2 For Wire Size Smaller Than Contact

CODE	MATERIAL	FINISH
-000*	360 BRASS	SILVER OVER NICKEL
-011*	360 BRASS	SILVER OVER NICKEL
-100	353 BRASS	UNPLATED
-110	353 BRASS	SILVER OVER NICKEL
-140	353 BRASS	LIGHT GOLD OVER NICKEL
-142	353 BRASS	HEAVY GOLD OVER NICKEL

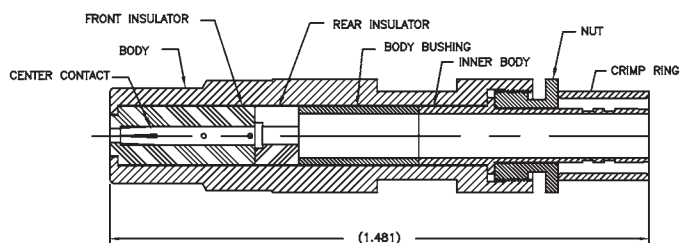
* Material/Finish codes -000 & -011 are obsolete, both replaced by -110



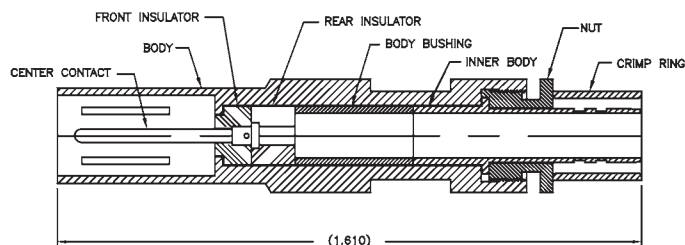
PART NUMBER	CRIMP BARREL WIRE SIZE	WIRE RANGE	A ±.010	B ±.002	C ±.002	D ±.005	E ±.002	F ±.010	G ±.005	H ±.002	J REF
907-1010-XXX	12	8-10	.807	.264	.094	.230	.181	.495	.450	.070	.577
907-1020-XXX	16	12-14	.549	.149	.062	.230	.100	.260	.220	.039	.319
907-1021-XXX	16	12-14	.617	.156	.062	.200	.100	.200	.160	.039	.400
907-1030-XXX	20	12-14	.509	.149	.038	.190	.100	.260	.220	.039	.319
907-1040-XXX	20	16-18	.499	.102	.038	.190	.067	.260	.220	.039	.309
907-1050-XXX	22	20-22	.363	.069	.029	.120	.047	.199	.190	.029	.243

SIZE 8 COAXIAL SOCKET CONTACT

SIZE 8 COAXIAL CONTACTS



TYPICAL PIN CONSTRUCTION
A12-4XXX-853



TYPICAL SOCKET COSTRUCTION
D12-4XXX-853

CABLE RG	PIN	SOCKET	CRIMP TOOL DIE*	DIE CLOSURE
RG-58	A12-4000-853	D12-4000-853	M22520/5-41	B
RG-141	A12-4020-853	D12-4020-853	M22520/5-41	B
RG-59	A12-4100-853	D12-4100-853	M22520/5-19	A
RG-62A; 62B	A12-4110-853	D12-4110-853	M22520/5-45	B
RG-174	A12-4200-853	D12-4200-853	M22520/5-35	B
RG-179B; 316	A12-4210-853	D12-4210-853	M22520/5-35	B
RG-180B	A12-4300-853	D12-4300-853	M22520/5-19	B

* USE CRIMP TOOL M22520/5-01

TOOLING

INSERTION, REMOVAL AND CRIMP TOOLS FOR F80 CRIMP CONTACTS MIL-DTL-5015 SERIES I

CONTACT		WIRE SIZE (AWG)	INSERTION TOOL	REMOVAL TOOL KIT	GUIDE PINS	MANUAL CRIMP TOOL FRAME		PICO TOOLS MODEL 300		PICO TOOLS MODEL 400-BHD		PICO TOOLS MODEL 500-D	
						MS3191A	M22520/1-01	DIE PART NO. (Note 2)	LOCATOR PART NO.	DIE PART NO. (Note 2)	LOCATOR PART NO.	DIE PART NO. (Note 2)	LOCATOR PART NO.
P/N	SIZE					LOCATOR	LOCATOR						
R12-2500-*	18 Pin	20-26	T117346	T118249	-	-	-	-	-	414DA-20N	9632	514DA-20N	10627
T12-2500-*	18 Skt	20-26	T117346	T118249	T125000	-	-	-	-	414DA-20N	9641	514DA-20N	10640
R12-3600-*	16 Pin	16-18	T117345	T118250	-	600091†	TH378*	314DA-16	C17P	414DA-16N	9633	514DA-16N	10628
T12-3600-*	16 Skt	16-18	T117345	T118250	T125001	600092M†	TH378*	314DA-16	C17S	414DA-16N	9642	514DA-16N	10641
R12-3608-*	16 Pin	24-26	T117346	T118250	-	-	-	-	-	414DA-22N	9633	-	-
T12-3608-*	16 Skt	24-26	T117346	T118250	T125001	-	-	-	-	414DA-22N	9642	-	-
R12-3612-*	16 Pin	20	T117345	T118250	-	-	-	-	-	414DA-16N	9633	514DA-16N	10628
T12-3612-*	16 Skt	20	T117345	T118250	T125001	-	-	-	-	414DA-16N	9642	514DA-16N	10641
R12-3613-*	16 Pin	20-26	T117346	T118250	-	-	TH378*	314DA-20	C17P	414DA-16N	9633	514DA-16N	10628
T12-3613-*	16 Skt	20-26	T117346	T118250	T125001	-	TH378*	314DA-20	C17S	414DA-16N	9642	514DA-16N	10641
R12-3615-*	16 Pin	18	T117345	T118250	-	-	TH378*	314DA-20	C17P	414DA-16N	9633	514DA-16N	10628
T12-3615-*	16 Skt	18	T117345	T118250	T125001	-	TH378*	314DA-20	C17S	414DA-16N	9642	514DA-16N	10641
R12-3620-*	16 Pin	14	T117345	T118250	-	-	TH378*	314DA-16	C17P	414DA-16N	9633	514DA-16N	10628
T12-3620-*	16 Skt	14	T117345	T118250	T125001	-	TH378*	314DA-16	C17S	414DA-16N	9642	514DA-16N	10641
R12-3626-*	16 Pin	12	T117082	T118250	-	-	TH378*	314DA-12	C17P	414DA-12N	9633	514DA-12N	10628
T12-3626-*	16 Skt	12	T117082	T118250	T125001	-	TH378*	314DA-12	C17S	414DA-12N	9642	514DA-12N	10641
R12-3632-*	16 Pin	28-32	T117345	T118250	-	-	-	-	-	414DA-16N048	9633	514DA-16N048	10628
T12-3632-*	16 Skt	28-32	T117345	T118250	T125001	-	-	-	-	414DA-16N048	9642	514DA-16N048	10641
R12-4900-*	16S Pin	16-18	T117345	T118250	-	600093†	TH379*	314DA-16	C16P	414DA-16N	9634	514DA-16N	10629
T12-4900-*	16S Skt	16-18	T117345	T118250	T125001	600245†	TH379*	314DA-16	C16S	414DA-16N	9634	514DA-16N	10629
R12-4912-*	16S Pin	20	T117345	T118250	-	-	TH379*	314DA-20	C16P	414DA-16N	9634	514DA-16N	10629
T12-4912-*	16S Skt	20	T117345	T118250	T125001	-	TH379*	314DA-20	C16S	414DA-16N	9634	514DA-16N	10629
R12-4913-*	16S Pin	20-26	T117346	T118250	-	-	-	-	-	414DA-20N	9634	514DA-20N	10629
T12-4913-*	16S Skt	20-26	T117346	T118250	T125001	-	-	-	-	414DA-20N	9634	514DA-20N	10629
R12-4915-*	16S Pin	18	T117345	T118250	-	-	-	-	-	414DA-16N	9634	514DA-16N	10629
T12-4915-*	16S Skt	18	T117345	T118250	T125001	-	-	-	-	414DA-16N	9634	514DA-16N	10629
R12-4920-*	16S Pin	14	T117345	T118250	-	-	TH379*	314DA-16	C16P	414DA-16N	9634	514DA-16N	10629
T12-4920-*	16S Skt	14	T117345	T118250	T125001	-	TH379*	314DA-16	C16S	414DA-16N	9634	514DA-16N	10629
R12-4926-*	16S Pin	12	T117082	T118250	-	-	-	-	-	414DA-18N	9634	514DA-18N	10629
T12-4926-*	16S Skt	12	T117082	T118250	T125001	-	-	-	-	414DA-18N	9634	514DA-18N	10629
R12-6400-*	12 Pin	12	T117082	T118250	-	600216†	TH378*	-	-	414DA-12N	9635	514DA-12N	10630
T12-6400-*	12 Skt	12	T117082	T118250	T125002	600216†	TH378*	-	-	414DA-12N	9635	514DA-12N	10630
R12-6408-*	12 Pin	8	T117082	T118250	-	-	-	-	-	414DA-6N155	9635	514DA-6N155	10630
T12-6408-*	12 Skt	8	T117082	T118250	T125002	-	-	-	-	414DA-6N155	9635	514DA-6N155	10630
R12-6412-*	12 Pin	20	T117345	T118250	-	-	-	-	-	414DA-16N	9635	514DA-16N	10630
T12-6412-*	12 Skt	20	T117345	T118250	T125002	-	-	-	-	414DA-16N	9635	514DA-16N	10630
R12-6415-*	12 Pin	18	T117082	T118250	-	600216†	TH378*	-	-	414DA-16N	9635	514DA-16N	10630
T12-6415-*	12 Skt	18	T117082	T118250	T125002	600216†	TH378*	-	-	414DA-16N	9635	514DA-16N	10630
R12-6420-*	12 Pin	14-18	T117082	T118250	-	-	-	-	-	414DA-10N096	9635	514DA-10N096	10630
T12-6420-*	12 Skt	14-18	T117082	T118250	T125002	-	-	-	-	414DA-10N096	9635	514DA-10N096	10630
R12-6422-*	12 Pin	2.5mm ²	T117082	T118250	-	620216†	-	-	-	414DA-8N142	9635	514DA-8N142	10630
T12-6422-*	12 Skt	2.5mm ²	T117082	T118250	T125002	620216†	-	-	-	414DA-8N142	9635	514DA-8N142	10630
R12-6430-*	12 Pin	4.0mm ²	T117082	T118250	-	7100659†	-	-	-	414DA-10N096	9635	514DA-10N096	10630
T12-6430-*	12 Skt	4.0mm ²	T117082	T118250	T125002	7100659†	-	-	-	414DA-10N	9635	514DA-10N	10630
R12-6431-*	12 Pin	4.0mm ²	T117082	M118250	-	-	-	-	-	414DA-10N	9635	514DA-10N	10630
T12-6431-*	12 Skt	4.0mm ²	T117082	M118250	T125002	-	-	-	-	414DA-18N	9635	514DA-18N	10630
R12-6438-*	12 Pin	6.0mm ²	T117082	M118250	-	-	-	-	-	414DA-10N	9635	514DA-10N	10630
T12-6438-*	12 Skt	6.0mm ²	T117082	M118250	T125002	-	-	-	-	414DA-10N	9635	514DA-10N	10630
R12-7900-*	8 Pin	8	T117344	T118260	Not Required	-	-	-	-	414DA-6N155	9636	514DA-6N155	10631
T12-7900-*	8 Skt	8	T117344	T118260		-	-	-	-	414DA-6N155	9636	514DA-6N155	10631
R12-7915-*	8 Pin	18	T117082	T118260		-	-	-	-	414DA-12N077	9636	514DA-12N077	10631
T12-7915-*	8 Skt	18	T117082	T118260		-	-	-	-	414DA-12N077	9636	514DA-12N077	10631
R12-7918-*	8 Pin	14-18	T117082	T118260		-	-	-	-	414DA-18N	9636	514DA-18N	10631
T12-7918-*	8 Skt	14-18	T117082	T118260		-	-	-	-	414DA-18N	9636	514DA-18N	10631

Note 1. Consult sales department.

Note 2. Pico Tools Die part numbers ending in letter N are for an 8 indent crimp. For Hex crimp, change letter N to HEX.

* Indicates additional alpha-numeric are required to complete part number.

† Locators provided by Astro Tool.



INSERTION, REMOVAL AND CRIMP TOOLS FOR **F80** CRIMP CONTACTS MIL-DTL-5015 SERIES I

CONTACT		WIRE SIZE (AWG)	INSERTION TOOL	REMOVAL TOOL KIT	GUIDE PINS	MANUAL CRIMP TOOL FRAME		PICO TOOLS MODEL 300		PICO TOOLS MODEL 400-BHD		PICO TOOLS MODEL 500-D	
						MS3191A	M22520/1-01	DIE PART NO. (Note 2)	LOCATOR PART NO.	DIE PART NO. (Note 2)	LOCATOR PART NO.	DIE PART NO. (Note 2)	LOCATOR PART NO.
						LOCATOR	LOCATOR						
R12-7926-*	8 Pin	12	T117082	T118260	Not Required	-	-	-	-	414DA-18N	9636	514DA-18N	10631
T12-7926-*	8 Skt	12	T117082	T118260		-	-	-	-	414DA-18N	9636	514DA-18N	10631
R12-7930-*	8 Pin	4.0mm ²	T117082	T118260		-	-	-	-	414DA-10N096	9636	514DA-10N096	10631
T12-7930-*	8 Skt	4.0mm ²	T117082	T118260		-	-	-	-	414DA-10N096	9636	514DA-10N096	10631
R12-7950-*	8 Pin	10.0mm ²	T117344	T118260		-	-	-	-	414DA-8N142	9636	514DA-8N142	10631
T12-7950-*	8 Skt	10.0mm ²	T117344	T118260		-	-	-	-	414DA-8N142	9636	514DA-8N142	10631
R12-7958-*	8 Pin	6	Note 1	T118260		-	-	-	-	414DA-6N170	9636	514DA-6N170	10631
T12-7958-*	8 Skt	6	Note 1	T118260		-	-	-	-	414DA-6N170	9636	514DA-6N170	10631
R12-8500-*	4 Pin	4	T117347	T118270	Not Required	-	-	-	-	414DA-4N215	9637	514DA-4N215	10632
T12-8500-*	4 Skt	4	T117347	T118270		-	-	-	-	414DA-4N215	9637	514DA-4N215	10632
R12-8522-*	4 Pin	2.5mm ²	T117082	T118270		-	-	-	-	414DA-18N	9637	514DA-18N	10632
T12-8522-*	4 Skt	2.5mm ²	T117082	T118270		-	-	-	-	414DA-18N	9637	514DA-18N	10632
R12-8525-*	4 Pin	25.0mm ²	T117347	T118270		-	-	-	-	414DA-4N	9637	514DA-4N	10632
T12-8525-*	4 Skt	25.0mm ²	T117347	T118270		-	-	-	-	414DA-4N	9637	514DA-4N	10632
R12-8526-*	4 Pin	12	T117082	T118270		-	-	-	-	414DA-10N	9637	514DA-10N	10632
T12-8526-*	4 Skt	12	T117082	T118270		-	-	-	-	414DA-10N	9637	514DA-10N	10632
R12-8530-*	4 Pin	4.0mm ²	T117082	T118270		-	-	-	-	414DA-10N105	9637	514DA-10N105	10632
T12-8530-*	4 Skt	4.0mm ²	T117082	T118270		-	-	-	-	414DA-10N105	9637	514DA-10N105	10632
R12-8535-*	4 Pin	35.0mm ²	T117348	T118270		-	-	-	-	414DA-0N315	9637	514DA-0N315	10632
T12-8535-*	4 Skt	35.0mm ²	T117348	T118270		-	-	-	-	414DA-0N315	9637	514DA-0N315	10632
R12-8550-*	4 Pin	10.0mm ²	T117344	T118270		-	-	-	-	414DA-8N142	9637	514DA-8N142	10632
T12-8550-*	4 Skt	10.0mm ²	T117344	T118270		-	-	-	-	414DA-8N142	9637	514DA-8N142	10632
R12-8562-*	4 Pin	16.0mm ²	T117347	T118270		-	-	-	-	414DA-4N	9637	514DA-4N	10632
T12-8562-*	4 Skt	16.0mm ²	T117347	T118270		-	-	-	-	414DA-4N	9637	514DA-4N	10632
R12-9200-*	1/0 Pin	1/0	T117348	T118280	Not Required	-	-	-	-	414DA-0N	9638	514DA-0N	10633
T12-9200-*	1/0 Skt	1/0	T117348	T118280		-	-	-	-	414DA-0N	9638	514DA-0N	10633
R12-9225-*	1/0 Pin	25.0mm ²	T117347	T118280		-	-	-	-	414DA-4N	9638	514DA-4N	10633
T12-9225-*	1/0 Skt	25.0mm ²	T117347	T118280		-	-	-	-	414DA-4N	9638	514DA-4N	10633
R12-9235-*	1/0 Pin	35.0mm ²	T117348	T118280		-	-	-	-	414DA-0N	9638	514DA-0N	10633
T12-9235-*	1/0 Skt	35.0mm ²	T117348	T118280		-	-	-	-	414DA-0N	9638	514DA-0N	10633
R12-9245-*	1/0 Pin	8	T117344	T118280		-	-	-	-	414DA-6N155	9638	514DA-6N155	10633
T12-9245-*	1/0 Skt	8	T117344	T118280		-	-	-	-	414DA-6N155	9638	514DA-6N155	10633
R12-9246-*	1/0 Pin	4	Note 1	T118280		-	-	-	-	414DA-4N	9638	514DA-4N	10633
T12-9246-*	1/0 Skt	4	Note 1	T118280		-	-	-	-	414DA-4N	9638	514DA-4N	10633
R12-9250-*	1/0 Pin	10.0mm ²	T117344	T118280		-	-	-	-	414DA-4N	9638	514DA-4N	10633
T12-9250-*	1/0 Skt	10.0mm ²	T117344	T118280		-	-	-	-	414DA-4N	9638	514DA-4N	10633
R12-9275-*	1/0 Pin	50.0mm ²	T117348	T118280		-	-	-	-	414DA-0N	9638	514DA-0N	10633
T12-9275-*	1/0 Skt	50.0mm ²	T117348	T118280		-	-	-	-	414DA-0N	9638	514DA-0N	10633
R12-9700-*	4/0 Pin	4/0	Note 1	Note 1	Not Required	-	-	-	-	-	-	514DA-N470	10636
T12-9700-*	4/0 Skt	4/0	Note 1	Note 1		-	-	-	-	-	-	514DA-N470	10639
R12-9790-*	4/0 Pin	2	Note 1	Note 1		-	-	-	-	414DA-0N	9639	514DA-0N	10634
T12-9790-*	4/0 Skt	2	Note 1	Note 1		-	-	-	-	414DA-0N	9640	514DA-0N	10637
R12-97115-*	4/0 Pin	1/0	Note 1	Note 1		-	-	-	-	414DA-0N	9639	514DA-0N	10634
T12-97115-*	4/0 Skt	1/0	Note 1	Note 1		-	-	-	-	414DA-0N	9640	514DA-0N	10637
R12-97135-*	4/0 Pin	2/0	Note 1	Note 1		-	-	-	-	-	-	514DA-N345	10635
T12-97135-*	4/0 Skt	2/0	Note 1	Note 1		-	-	-	-	-	-	514DA-N345	10638

Note 1. Consult sales department.

Note 2. Pico Tools Die part numbers ending in letter N are for an 8 indent crimp. For Hex crimp, change letter N to HEX.

* Indicates additional alpha-numeric are required to complete part number.

† Locators provided by Astro Tool.

TOOLING

INSERTION AND REMOVAL TOOLS FOR **F80** CRIMP CONTACTS MIL-DTL-5015 SERIES I

ALTERNATE INSERTION TOOLS

CONTACT SIZE	SPACECRAFT	ASTRO TOOL	BENDIX	ITT CANNON	COMMITAL	DANIELS	VEAM
18	T117346	–	–	–	M.117346	–	T98143
16	T117345	ATBX1-7345	11-7345	CIT-F80-16	M.117345	DAK168-16	11-7345
12	T117082	ATBX1-7082	11-7082	CIT-F80-12	M.117082	DAK168-12	46736
8	T117344	ATBX 1-8220	11-8220	CIT-8	M117344	DAK159	A46151-8T50
4	T117347	ATC1377	11-7365-4*	CIT-4	M.117347	–	A46151-4T50
1/0	T117348	–	11-7365-5*	CIT-0	M.117348	–	A46151-0T50

* Requires 11-7364 Arbor Press

ALTERNATE REMOVAL TOOLS

CONTACT SIZE	SPACECRAFT	ASTRO TOOL	BENDIX	ITT CANNON	COMMITAL	DANIELS	VEAM
18	T118249	–	–	–	M.118249	–	11-7576-37
16	T118250	ATBX2-8250	11 -8250(Kit)	CET-F80-16	M.118250	DRK59	A43240
12	T118250	ATBX2-8250	11 -8250(Kit)	CET-F80-12	M.118250	DRK59	A43240
8	T117260	ATBX2-8250	11 -8250(Kit)	CET-8	M.118260	DRK59	A43240-8
4	T118270	ATC2234	P=11-7370-4* S=11-7674-2*	CET-4	M.118270	–	46150-4
1/0	T118280	–	P=11-7370-5* S=11-7674-3*	CET-0	M.118280	–	46150-0

* Requires 11-7364 Arbor Press

ALTERNATE GUIDE PINS

CONTACT SIZE	SPACECRAFT	BENDIX	ITT CANNON	COMMITAL	VEAM
18	T125000	–	–	M.125000	27977-20T50
16	T125001	Unknown	226-1017-000	M.125001	27977-16T50
12	T125002	Unknown	226-1018-000	M.125002	27977-16T50
8	T125003	Unknown	Not Required	M.125003	Not Required
4	Not Required	Not Required	Not Required	Not Required	Not Required
1/0	Not Required	Not Required	Not Required	Not Required	Not Required



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