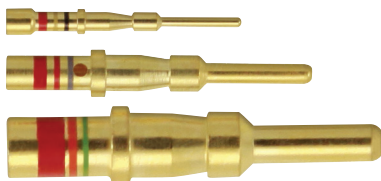
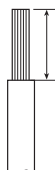
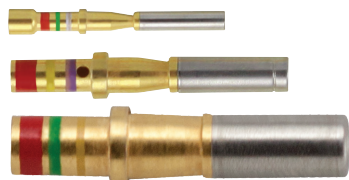
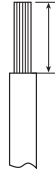


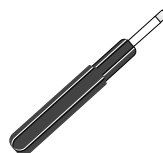
PIN & SOCKET CRIMP CONTACTS

CONTACT & WIRE SIZE		PIN CONTACT & COLOR BANDS				WIRE STRIP LENGTH	WIRE SEALING RANGE	
								
CONTACT SIZE	WIRE SIZE AWG	PIN CONTACT PART NUMBER	COLOR BANDS			WIRE STRIP LENGTH	WIRE SEALING RANGE	
			1	2	3		MIN.	MAX.
SE CRIMP CONTACTS								
20	20-24	M39029/31-240	Red	Yellow	Black	.275 (7.0)	.047 (1.2)	.083 (2.1)
16	16-20	M39029/31-228	Red	Red	Grey	.250 (6.4)	.066 (1.7)	.109 (2.7)
12	12-14	M39029/31-235	Red	Orange	Green	.250 (6.4)	.097 (2.5)	.142 (3.6)
20 Chromel	20-24	10-330940-01P	-	-	-			
20 Alumel	20-24	10-330940-02P	-	-	-	.250 (6.4)	.047 (1.2)	.083 (2.1)
20 Iron	20-24	10-330940-03P	-	-	-			
20 Constantan	20-24	10-330940-04P	-	-	-			
CE CRIMP CONTACTS								
20	20-24	10-189000-20F	-	-	-	.275 (7.0)	.047 (1.2)	.083 (2.1)
20	16-20	10-195962-20F	-	-	-	.275 (7.0)	.047 (1.2)	.083 (2.1)
16	16-20	10-189004-16F	-	-	-	.250 (6.4)	.066 (1.7)	.109 (2.7)
20 Chromel	20-24	10-252900-01P	-	-	-			
20 Alumel	20-24	10-252900-02P	-	-	-	.275 (7.0)	.047 (1.2)	.083 (2.1)
20 Iron	20-24	10-252900-03P	-	-	-			
20 Constantan	20-24	10-252900-04P	-	-	-			

CONTACT & WIRE SIZE		SOCKET CONTACT & COLOR BANDS				WIRE STRIP LENGTH	WIRE SEALING RANGE	
								
CONTACT SIZE	WIRE SIZE AWG	SOCKET CONTACT PART NUMBER	COLOR BANDS			WIRE STRIP LENGTH	WIRE SEALING RANGE	
			1	2	3		MIN.	MAX.
SE CRIMP CONTACTS								
20	20-24	M39029/32-259	Red	Green	White	.275 (7.0)	.047 (1.2)	.083 (2.1)
16	16-20	M39029/32-247	Red	Yellow	Violet	.250 (6.4)	.066 (1.7)	.109 (2.7)
12	12-14	M39029/32-254	Red	Green	Yellow	.250 (6.4)	.097 (2.5)	.142 (3.6)
20 Chromel	20-24	10-330940-01S	-	-	-	.250 (6.4)	.047 (1.2)	.083 (2.1)
20 Alumel	20-24	10-330940-02S	-	-	-			
20 Iron	20-24	10-330940-03S	-	-	-			
20 Constantan	20-24	10-330940-04S	-	-	-			
CE CRIMP CONTACTS								
20	20-24	10-597817-351	-	-	-	.275 (7.0)	.047 (1.2)	.083 (2.1)
20	16-20	10-195963-20F	-	-	-	.275 (7.0)	.047 (1.2)	.083 (2.1)
16	16-20	10-189006-16F	-	-	-	.250 (6.4)	.066 (1.7)	.109 (2.7)
20 Chromel	20-24	10-252900-01S	-	-	-	.275 (7.0)	.047 (1.2)	.083 (2.1)
20 Alumel	20-24	10-252900-02S	-	-	-			
20 Iron	20-24	10-252900-03S	-	-	-			
20 Constantan	20-24	10-252900-04S	-	-	-			

All dimensions in inches (millimeters in parenthesis)

WIRE HOLE FILLER		CRIMP TOOLS				INSERTION TOOL	EXTRACTION TOOL
		 M22520/1-01  WA27F  TH1A M22520/1-02					
PART NUMBER	COLOR	HAND-CRIMP TOOL	POWER-CRIMP TOOL	TURRET HEAD	COLOR USE LOCATOR	INSERTION TOOL	EXTRACTION TOOL
SE CRIMP CONTACTS							
MS27488-20-2	Red	AF8 or M22520/1-01	WA27F*	TH1A or M22520/1-02	Red	M81969/17-03	M81969/19-07
MS27488-16-2	Blue				Blue	M81969/17-04	M81969/19-08
MS27488-12-2	Yellow				Yellow	M81969/17-05	M81969/19-09
MS27488-20-2	Red				Red	M81969/17-03	M81969/19-07
CE CRIMP CONTACTS							
MS27488-20-2	Red	AF8 or M22520/1-01	WA27F*	TH254	Red	11-6782	11-6900
MS27488-20-2	Red				Red	11-6782	
MS27488-16-2	Blue				Blue	11-6781	
MS27488-20-2	Red				Red	11-6782	

WIRE HOLE FILLER		CRIMP TOOLS				INSERTION TOOL	EXTRACTION TOOL
		 AF8 M22520/1-01  WA27F  TH1A M22520/1-02					
PART NUMBER	COLOR	HAND-CRIMP TOOL	POWER-CRIMP TOOL	TURRET HEAD	COLOR USE LOCATOR	INSERTION TOOL	EXTRACTION TOOL
SE CRIMP CONTACTS							
MS27488-20-2	Red	AF8 or M22520/1-01	WA27F*	TH1A or M22520/1-02	Red	M81969/17-03	M81969/19-07
MS27488-16-2	Blue				Blue	M81969/17-04	M81969/19-08
MS27488-12-2	Yellow				Yellow	M81969/17-05	M81969/19-09
MS27488-20-2	Red				Red	M81969/17-03	M81969/19-07
CECRIMP CONTACTS							
MS27488-20-2	Red	AF8 or M22520/1-01	WA27F*	TH254	Red	11-6782	11-6900
MS27488-20-2	Red				Red	11-6782	
MS27488-16-2	Blue				Blue	11-6781	
MS27488-20-2	Red				Red	11-6782	

WIRE HOLE FILLER		CRIMP TOOLS				INSERTION TOOL	EXTRACTION TOOL
		 AF8 M22520/1-01  WA27F  TH1A M22520/1-02					
PART NUMBER	COLOR	HAND-CRIMP TOOL	POWER-CRIMP TOOL	TURRET HEAD	COLOR USE LOCATOR	INSERTION TOOL	EXTRACTION TOOL
SE CRIMP CONTACTS							
MS27488-20-2	Red	AF8 or M22520/1-01	WA27F*	TH1A or M22520/1-02	Red	M81969/17-03	M81969/19-07
MS27488-16-2	Blue				Blue	M81969/17-04	M81969/19-08
MS27488-12-2	Yellow				Yellow	M81969/17-05	M81969/19-09
MS27488-20-2	Red				Red	M81969/17-03	M81969/19-07
CE CRIMP CONTACTS							
MS27488-20-2	Red	AF8 or M22520/1-01	WA27F*	TH254	Red	11-6782	11-6900
MS27488-20-2	Red				Red	11-6782	
MS27488-16-2	Blue				Blue	11-6781	
MS27488-20-2	Red				Red	11-6782	

*Contact us for more tool accessories.

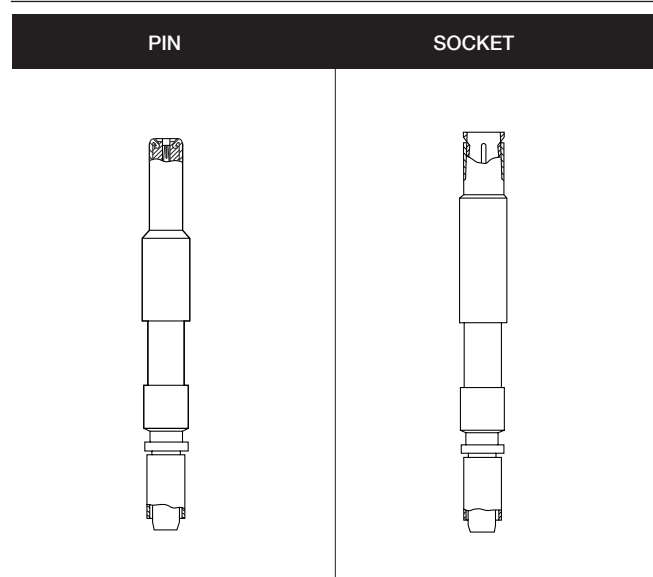
PIN & SOCKET SOLDER COAX CONTACTS

CABLE	CONTACT PART #		FITS IN SHELL SIZE	OUTER SHELL CRIMP FERRULE		CLAMP NUT WRENCH	
	PIN	SOCKET		MIL-C_22520/5-01 USE WITH DIE PART # (LOCATOR CAVITY)	MIL-C22520/10-01 USE WITH DIE PART# (LOCATOR CAVITY)		
CONTACT SIZE 12							
RG-161/U	21-033020-032	21-033019-032	10-18	M22520/5-03 (A)	M22520/10-05 (A)	11-8676-1	
RG-174A/U				M22520/5-08 (A)			
RG-179B/U				M22520/5-35 (B)			
RG-187A/U							
RG-188A/U							
RG-316/U							
RG-196A/U	21-033020-031+	21-033061-031+		M22520/5-03 (B)	M22520/10-05 (B)		
				M22520/5-33 (B)			
"Thermatics 2929-29"	21-033020-033	21-033061-033		M22520/5-37 (B)			
CONTACT SIZE 8							
RG-58C/U	21-033020-002	21-033019-002	10-18	M22520/5-05 (B)	M22520/10-07 (B)	11-8676-2	
RG-141A/U				M22520/5-41 (B)			
RG-303/U							
RG-59B/U	21-033020-003	21-033019-003		M22520/5-45 (B)	-	11-8676-3	
RG-62A/U							
RG-62B/U							
RG-210/U	21-033020-007*	21-033019-007*		M22520/5-43 (B)	-	11-8676-2	
RG-142B/U							
Times MI51115							
RG-178B/U	21-033020-004	21-033019-004		M22520/5-03 (B)	M22520/10-05 (B)	11-8676-2	
RG-180B/U	21-033020-005*	21-033019-005*		M22520/5-33 (B)			
RG-195A/U							
Raychem - 5022D1312-9							
Raychem - 5021D1331-9	21-033020-006*	21-033019-006*		M22520/5-05 (B)	M22520/10-07 (B)	11-8676-2	
				M22520/5-41 (B)			
RG-59B/U	21-033020-001	21-033019-001	20-24	M22520/5-45 (B)	-	11-8676-3	
RG-62A/U							
RG-62B/U							
RG-210/U							

Note: Solder contacts are supplied with outer contact body bonded into the insert (insulator). Contact us for wire strip lengths and assembly instructions

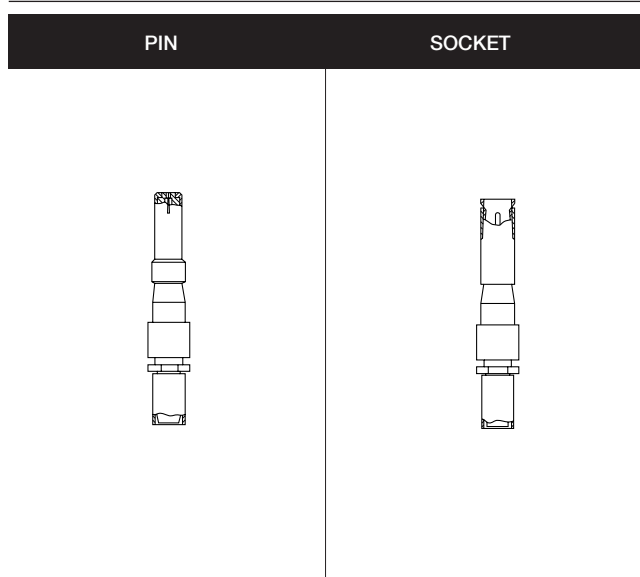
- * Please check availability
- + Only mate with one another

SOLDER (PT)



Note: Illustrations are for chart above.

CRIMP (PT-SE)



Note: Illustrations are for chart on [page 135](#).

PIN & SOCKET SE CRIMP COAX CONTACTS

	INNER SOLDER CONTACT								
CABLE	PINS		SOCKET		HAND-CRIMP TOOL OUTER SHELL		CLAMP NUT WRENCH	INSER- TION TOOL	EXTRAC- TION TOOL
	.00005 GOLD OVER SILVER	.00010 GOLD OVER COPPER	.00005 GOLD OVER SILVER	.00010 GOLD OVER COPPER	MIL-C22520/5-01 USE WITH DIE PART # (LOCATOR CAVITY)	MIL-C22520/10-01 USE WITH DIE PART # (LOCATOR CAVITY)			
CONTACT SIZE 12									
RG-161/U RG-174A/U RG-179B/U RG-187A/U RG-188A/U RG-316/U	21-033012-001 <u>21-033012-004</u>	21-033038-001 <u>21-033038-004</u>	21-033011-001 <u>21-033011-004</u>	21-033037-001 <u>21-033037-004</u>	-	M22520/10-05 (A)	11-8676-1	11-8369-2 11-8660-2	11-7880-12 11-8154-2
RG-178B/U RG-196A/U	21-033012-003* <u>21-033012-005</u>	21-033038-003* <u>21-033038-005</u>	21-033011-003* <u>21-033011-005</u>	21-033037-003* <u>21-033037-005</u>	-	M22520/10-05 (A)	11-8676-1	11-8369-1 11-8660-1	11-7880-12 11-8154-2
RG-188 or RG-316 Double Braid	21-033012-006* <u>21-033012-007</u>	21-033038-006* <u>21-033038-007</u>	21-033011-006* <u>21-033011-007</u>	21-033037-006* <u>21-033037-007</u>	M22520/5-37 (B)	-	11-8676-1	11-8369-2 11-8660-2	11-7880-12 11-8154-2
Westrex 199-49-1 Tensolite 30850/87T-1	N/A <u>21-033012-043</u>	N/A <u>21-033038-043</u>	N/A <u>21-033011-043</u>	N/A <u>21-033037-043</u>	-	M22520/10-05 (B)	11-8676-1	11-8369-1 11-8660-1	11-7880-12 11-8154-2
CONTACT SIZE 8									
RG-55B/U RG-142A/U RG-142B/U RG-223/U	21-033012-21 <u>21-033012-25</u>	21-033038-21 <u>21-033038-25</u>	21-033011-21 <u>21-033011-25</u>	21-033037-21 <u>21-033037-25</u>	-	M22520/10-07 (A)	11-8676-2	11-8369-5 11-8660-5	11-7880-8 11-8154-1
RG-58C/U RG-141A/U RG-303/U	21-033012-022 <u>21-033012-026</u>	21-033038-022* <u>21-033038-026*</u>	21-033011-022 <u>21-033011-026</u>	21-033037-022 <u>21-033037-026*</u>	-	M22520/10-07 (B)	11-8676-2	11-8369-4 11-8660-4	11-7880-8 11-8154-1
RG-59B/U RG-62A/U RG-62B/U RG-210/U	N/A <u>21-033012-036</u>	N/A <u>21-033038-036*</u>	N/A <u>21-033011-036</u>	N/A <u>21-033037-036</u>	M22520/5-45 (B)	-	11-8676-2	11-8369-5 11-8660-5	11-7880-8 11-8154-1
RG-140/U RG-302/U	N/A <u>21-033012-037*</u>	N/A <u>21-033038-037*</u>	N/A <u>21-033011-037*</u>	N/A <u>21-033037-037*</u>	-	M22520/10-07 (A)	11-8676-2	11-8369-5 11-8660-5	11-7880-8 11-8154-1
RG-161/U RG-174A/U RG-179B/U RG-187A/U RG-188A/U RG-316/U	21-033012-034 <u>21-033012-030</u>	21-033038-034 <u>21-033038-030</u>	21-033011-034 <u>21-033011-030</u>	21-033037-034 <u>21-033037-030</u>	-	M22520/10-05 (A)	11-8676-2	11-8369-2 11-8660-2	11-7880-8 11-8154-1
RG-178B/U RG-196A/U	21-033012-035 <u>N/A</u>	21-033038-035 <u>N/A</u>	21-033011-035 <u>N/A</u>	21-033037-035 <u>N/A</u>	-	M22520/10-05 (A)	11-8676-2	11-8369-1 11-8660-1	11-7880-8 11-8154-1
RG-180B/U RG-195A/U	N/A <u>21-033012-046*</u>	N/A <u>21-033038-046*</u>	21-033011-024 <u>21-033011-046*</u>	21-033037-024 <u>21-033037-046*</u>	-	M22520/10-07 (B)	11-8676-2	11-8369-4 11-8660-4	11-7880-8 11-8154-1
Thermax 50C25ADS1	N/A <u>21-033012-044</u>	N/A <u>21-033038-044*</u>	N/A <u>21-033011-044</u>	N/A <u>21-033037-044*</u>	M22520/05-37 (B)	-	11-8676-2	11-8369-5 11-8660-5	11-7880-8 11-8154-1
RG-195 Double Braid	21-033012-028 <u>N/A</u>	21-033038-028* <u>N/A</u>	21-033011-028 <u>N/A</u>	21-033037-028* <u>N/A</u>	M22520/05-43 (B)	-	11-8676-2	11-8369-4 11-8660-4	11-7880-8 11-8154-1
RG-122/U Tyco 5022E5111	21-033012-023 <u>21-033012-027</u>	21-033038-023* <u>21-033038-027</u>	21-033011-023 <u>21-033011-027</u>	21-033037-023* <u>21-033037-027</u>	-	M22520/10-07 (B)	11-8676-2	11-8369-4 11-8660-4	11-7880-8 11-8154-1
Tyco 9530D5314	21-033012-031 <u>N/A</u>	21-033038-031 <u>N/A</u>	21-033011-031 <u>N/A</u>	21-033037-031 <u>N/A</u>	-	M22520/10-07 (B)	11-8676-2	11-8369-4 11-8660-4	11-7880-8 11-8154-1
Tyco 9527A1317	N/A <u>21-033012-039</u>	N/A <u>21-033038-039*</u>	N/A <u>21-033011-039</u>	N/A <u>21-033037-039*</u>	-	M22520/10-07 (B)	11-8676-2	11-8369-4 11-8660-4	11-7880-8 11-8154-1
Tyco 7527A1318	N/A <u>21-033012-040*</u>	N/A <u>21-033038-040*</u>	N/A <u>21-033011-040</u>	N/A <u>21-033037-040*</u>	-	M22520/10-05 (A)	11-8676-2	11-8369-2 11-8660-2	11-7880-8 11-8154-1

Italicized = Matched impedance contacts. *Contact us for availability.

Availability of coax contacts varies widely. Contact us for strip lengths and assembly instructions.

CONNECTOR TOOLS

TG70 STRAP WRENCH

The strap wrench is used to connect or disconnect coupling nuts in a confined space, or to tighten or loosen endbells without damaging the connector plating. A strap wrench also increases torque, allowing you to more easily mate or unmate a connector pair. Substitute tools, such as a pipe wrench or pliers, should never be used because of the high probability of severe damage to the connector plating or the coupling mechanism.



TG69P NON-MARRING ADJUSTABLE ENDBELL PLIERS FOR FIELD SERVICE

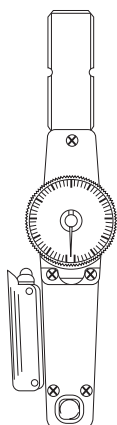
The TG69P pliers have resilient jaws and are used to tighten or remove endbells without damaging the connector plating. The pliers are adjustable and will accommodate all of the connector sizes in this catalog. Substitute tools, such as a pipe wrench or metal jaw pliers, should never be used due to the high probability of severe damage to the connector plating. Replacement jaws, part number G77015, are available.



The 600 series is a complete system for the proper assembly and torquing of connector endbells. The system includes a bench-mounted or hand-held torque wrench, plug and receptacle holders, and a range of endbell-tightening tools. When used together, these tools provide consistent endbell installations. Each item is shipped with detailed assembly instructions.



600-007
Bench-mounted
torque wrench

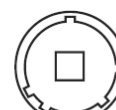


600-004
Hand-held
torque wrench

ROTATIONS	
PIN	SOCKET
W = G	W = H
X = I	X = J
Y = K	Y = L
Z = M	Z = N



600D005-R



600D005-P

PLUG & RECEPTACLE HOLDERS		
SHELL SIZE	MIL-DTL-26482	
	FOR PT, PT-SE, MS311_, MS312_	
	RECEPTACLES	PLUGS
8	600D005-8R	600D005-8P
10	600D005-10R	600D005-10P
12	600D005-12R	600D005-12P
14	600D005-14R	600D005-14P
16	600D005-16R	600D005-16P
18	600D005-18R	600D005-18P
20	600D005-20R	600D005-20P
22	600D005-22R	600D005-22P
24	600D005-24R	600D005-24P

TORQUE VALUES

IMPORTANT NOTE:

If barrel/shell has three threads or less, torque to 30 to 35 inch/Lbs (3.4 to 4.0 NM) per L-725-2.

Endbell

SHELL SIZE	INCH-LBS.		N-M	
	MIN	MAX	MIN	MAX
6	20	26	2.3	2.9
8	20	26	2.3	2.9
10	26	32	2.9	3.6
12	30	36	3.4	4.1
14	40	46	4.5	5.2
16	50	55	5.6	6.2
18	60	65	6.8	7.3
20	75	80	8.5	9.0
22	85	90	9.6	10.2
24	100	110	11.3	12.4

Jam Nut

SHELL SIZE	INCH-LBS.		N-M	
	MIN	MAX	MIN	MAX
8	26	32	2.9	3.6
10	30	36	3.4	4.1
12	46	50	5.2	5.6
14	55	60	6.2	6.8
16	70	75	7.9	8.5
18	80	85	9.0	9.6
20	90	95	10.2	10.7
22	100	110	11.3	12.4
24	110	120	12.4	13.6