



CONTACTS AND TOOLS

Signal Crimp Contacts						
Size	Gender	Contact Part Number	Crimp Tool	Positioner	Insertion Tool	Extraction Tool
D38999 QPL and Commercial Contacts						
23	Pin	M39029/122-670	<b>809-015</b> M22520/2-01	<b>859-210</b> M22520/2-13	<b>859-163</b>	<b>859-163</b>
23	Skt	M39029/121-663	<b>809-015</b> M22520/2-01	<b>859-211</b> M22520/2-16	<b>859-163</b>	<b>859-163</b>
22	Pin	<b>850-002-22-360</b> M39029/58-360	<b>809-015</b> M22520/2-01	<b>859-018</b> M22520/2-09	<b>859-020</b> M81969/14-01	<b>859-020</b> M81969/14-01
22	Skt	<b>850-001-22-348</b> M39029/56-348	<b>809-015</b> M22520/2-01	<b>809-369</b> M22520/2-07	<b>859-020</b> M81969/14-01	<b>859-020</b> M81969/14-01
20	Pin	<b>850-002-20-363</b> M39029/58-363	<b>809-015</b> M22520/2-01	M22520/2-10	<b>809-207</b> M81969/14-10	<b>809-207</b> M81969/14-10
			<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Red)		
20	Skt	<b>800-001-20-351</b> M39029/56-351	<b>809-015</b> M22520/2-01	M22520/2-10	<b>809-207</b> M81969/14-10	<b>809-207</b> M81969/14-10
			<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Red)		
16	Pin	<b>850-002-16-364</b> M39029/58-364	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Blue)	<b>809-131</b> M81969/14-03	<b>809-131</b> M81969/14-03
16	Skt	<b>850-001-16-352</b> M39029/56-352	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Blue)	<b>809-131</b> M81969/14-03	<b>809-131</b> M81969/14-03
12	Pin	<b>850-002-12-365</b> M39029/58-365	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Yellow)	<b>809-132</b> M81969/14-04	<b>809-132</b> M81969/14-04
12	Skt	<b>850-001-12-353</b> M39029/56-353	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Yellow)	<b>809-132</b> M81969/14-04	<b>809-132</b> M81969/14-04
Thermocouple Contacts						
23	Pin	<b>857-104</b>	<b>809-015</b> M22520/2-01	<b>859-210</b> M22520/2-13	<b>859-163</b>	<b>859-163</b>
23	Skt	<b>857-105</b>	<b>809-015</b> M22520/2-01	<b>859-211</b> M22520/2-16	<b>859-163</b>	<b>859-163</b>
22	Pin	<b>850-181-22</b>	<b>809-015</b> M22520/2-01	<b>859-018</b> M22520/2-09	<b>859-020</b> M81969/14-01	<b>859-020</b> M81969/14-01
22	Skt	<b>850-183-22</b>	<b>809-136</b> M22520/2-01	<b>809-369</b> M22520/2-07	<b>859-020</b> M81969/14-01	<b>809-020</b> M81969/14-01
20	Pin	<b>850-181-20</b>	<b>809-015</b> M22520/2-01	M22520/2-10	<b>809-207</b> M81969/14-10	<b>809-207</b> M81969/14-10
20	Skt	<b>850-183-20</b>	<b>809-015</b> M22520/2-01	M22520/2-10	<b>809-207</b> M81969/14-10	<b>809-207</b> M81969/14-10
16	Pin	<b>850-181-16</b>	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Blue)	<b>809-131</b> M81969/14-03	<b>809-131</b> M81969/14-03
16	Skt	<b>850-183-16</b>	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Blue)	<b>809-131</b> M81969/14-03	<b>809-131</b> M81969/14-03

# SuperNine® Weight/cost-saving MIL-DTL-38999 Series III Type



## Signal and power crimp contact tool cross reference

CONTACTS AND TOOLS

Signal Crimp Contacts						
Size	Gender	Contact Part Number	Crimp Tool	Positioner	Insertion Tool	Extraction Tool
Extended Durability D38999 Contacts						
22	Pin	<b>850-007-22-620</b> M39029/107-620	<b>809-015</b> M22520/2-01	<b>859-018</b> M22520/2-09	<b>859-020</b> M81969/14-01	<b>859-020</b> M81969/14-01
22	Skt	<b>850-006-22-614</b> M39029/106-614	<b>809-015</b> M22520/2-01	<b>809-369</b> M22520/2-07	<b>859-020</b> M81969/14-01	<b>859-020</b> M81969/14-01
20	Pin	<b>850-007-20-621</b> M39029/107-621	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Red)	<b>809-207</b> M81969/14-10	<b>809-207</b> M81969/14-10
			<b>809-015</b> M22520/2-01	M22520/2-10		
20	Skt	<b>850-006-20-615</b> M39029/106-615	<b>809-136</b> M22520/1-01	M22520/2-10	<b>809-207</b> M81969/14-10	<b>809-207</b> M81969/14-10
			<b>809-015</b> M22520/2-01	M22520/2-10		
16	Pin	<b>850-007-16-622</b> M39029/107-622	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (blue)	<b>809-131</b> M81969/14-03	<b>809-131</b> M81969/14-03
16	Skt	<b>850-006-16-616</b> M39029/106-616	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (blue)	<b>809-131</b> M81969/14-03	<b>809-131</b> M81969/14-03
12	Pin	<b>850-007-12-623</b> M39029/107-623	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (yellow)	<b>809-132</b> M81969/14-04	<b>809-132</b> M81969/14-04
12	Skt	<b>850-006-12-617</b> M39029/106-617	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (yellow)	<b>809-132</b> M81969/14-04	<b>809-132</b> M81969/14-04
SuperNine 233-205 and 233-206 Extended Durability Connector Contacts						
23	Pin	<b>857-189</b> (AS39029/18 Type)	<b>809-015</b> M22520/2-01	<b>859-210</b> M22520/2-13	M81969/1-05	M81969/1-05
23	Skt	<b>857-190</b> (AS39029/17 Type)	<b>809-015</b> M22520/2-01	M22520/2-16	M81969/1-05	M81969/1-05
22	Pin	<b>857-151-22</b> (IAW M39029/58-360)	<b>809-015</b> M22520/2-01	<b>859-018</b> M22520/2-09	<b>859-020</b> M81969/14-01	<b>859-020</b> M81969/14-01
22	Skt	<b>857-150-22</b> (IAW M39029/56-348)	<b>809-015</b> M22520/2-01	<b>809-369</b> M22520/2-07	<b>859-020</b> M81969/14-01	<b>859-020</b> M81969/14-01
20	Pin	<b>857-151-20</b> (IAW M39029/58-363)	<b>809-015</b> M22520/2-01	M22520/2-10	<b>809-207</b> M81969/14-10	<b>809-207</b> M81969/14-10
			<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Red)		
20	Skt	<b>857-150-20</b> (IAW M39029/56-351)	<b>809-015</b> M22520/2-01	M22520/2-10	<b>809-207</b> M81969/14-10	<b>809-207</b> M81969/14-10
			<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Red)		
16	Pin	<b>857-151-16</b> (IAW M39029/58-364)	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Blue)	<b>809-131</b> M81969/14-03	<b>809-131</b> M81969/14-03
16	Skt	<b>857-150-16</b> (IAW M39029/56-352)	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Blue)	<b>809-131</b> M81969/14-03	<b>809-131</b> M81969/14-03
12	Pin	<b>857-151-12</b> (IAW M39029/58-365)	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Yellow)	<b>809-132</b> M81969/14-04	<b>809-132</b> M81969/14-04
12	Skt	<b>857-150-12</b> (IAW M39029/56-353)	<b>809-136</b> M22520/1-01	<b>809-137</b> M22520/1-04 (Yellow)	<b>809-132</b> M81969/14-04	<b>809-132</b> M81969/14-04

Shielded Contact Assembly Tools									
Contact P/N	Cable Accomodated		Gender	Size	Inner Contact		Cable Shield Hex		Insertion/ Removal Tool
					Tool	Positioner	Tool	Hex Die	
<b>852-008</b> M39029/76	RG174, RG316, RG178, RG179		Pin	16	<b>809-015</b> M22520/2-01	<b>809-125</b> M22520/2-35	<b>809-127</b> M22520/4-01	<b>809-126</b> M22520/4-02	<b>809-131</b> M81969/14-03
<b>852-009</b> M39029/77	RG174, RG316, RG178, RG179		Skt	16	<b>809-015</b> M22520/2-01	<b>809-125</b> M22520/2-35	<b>809-127</b> M22520/4-01	<b>809-126</b> M22520/4-02	<b>809-131</b> M81969/14-03
<b>852-004</b> M39029/102	RG174, RG179, RG180, RG316		Pin	12	<b>809-015</b> M22520/2-01	<b>859-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>809-130</b> M22520/5-03	<b>809-132</b> M81969/14-04
<b>852-005</b> M39029/103	RG174, RG179, RG180, RG316		Skt	12	<b>809-015</b> M22520/2-01	<b>859-123</b> K1457 (DMC)	<b>809-129</b> M22520/5-01	<b>809-130</b> M22520/5-03	<b>809-132</b> M81969/14-04
<b>852-006</b> M39029/59-366	RG180		Skt	8	<b>809-015</b> M22520/2-01	<b>859-050</b> M22520/2-31	<b>809-129</b> M22520/5-01	<b>859-051</b> M22520/5-05	<b>859-049</b> M81969/14-12 Removal
<b>852-007</b> M39029/60-367	RG180		Pin	8	<b>809-015</b> M22520/2-01	<b>859-050</b> M22520/2-31	<b>809-129</b> M22520/5-01	<b>859-051</b> M22520/5-05	<b>859-049</b> M81969/14-12 Removal
<b>852-082-XX</b>	Dash: -01	PIC Cable: V78209	Pin	8	<b>809-015</b> M22520/2-01	<b>859-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
	Dash: -02	Times Microwave LMR-240-75		8	<b>809-015</b> M22520/2-01	<b>859-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007</b> M22520/5-45	
	Dash: -03	Falmat: Deep Mini RG59 P/N: FM030115-4		8	<b>809-015</b> M22520/2-01	<b>859-240</b> M22520/2-37	<b>809-129</b> M22520/5-01		
<b>852-083-XX</b>	Dash: -01	PIC Cable: V78209	Skt	8	<b>809-015</b> M22520/2-01	<b>859-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
	Dash: -02	Times Microwave LMR-240-75		8	<b>809-015</b> M22520/2-01	<b>859-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007</b> M22520/5-45	
	Dash: -03	Falmat: Deep Mini RG59 P/N: FM030115-4		8	<b>809-015</b> M22520/2-01	<b>859-240</b> M22520/2-37	<b>809-129</b> M22520/5-01		
<b>852-030-XX</b>	Dash: -01	M17/152-00001 (RG316DS),	Skt	8	Solder Contact		<b>809-129</b> M22520/5-01	<b>809-130</b> M22520/5-03	<b>859-049</b> M81969/14-12 Removal
	Dash: -02	M17/113-RG316		8			<b>809-129</b> M22520/5-01	<b>809-130</b> M22520/5-03	
	Dash: -03	M17/060-RG142; M17/12/-RG400		8			<b>809-129</b> M22520/5-01	<b>859-047 or 859-007</b> M22520/5-45	
	Dash: -04	M17/28-RG58		8			<b>809-129</b> M22520/5-01	<b>859-047 or 859-007</b> M22520/5-45	
<b>852-031-XX</b>	Dash: -01	M17/152-00001 (RG316DS),	Pin	8	Solder Contact		<b>809-129</b> M22520/5-01	<b>809-130</b> M22520/5-03	<b>859-049</b> M81969/14-12 Removal
	Dash: -20	M17/113-RG316		8			<b>809-129</b> M22520/5-01	<b>809-130</b> M22520/5-03	
	Dash: -03	M17/060-RG142; M17/12/-RG400		8			<b>809-129</b> M22520/5-01	<b>859-047 or 859-007</b> M22520/5-45	
	Dash: -04	M17/28-RG58		8			<b>809-129</b> M22520/5-01	<b>859-047 or 859-007</b> M22520/5-45	

**MIL-DTL-38999 Series III Type**

**RF crimp contact tool cross reference**

CONTACTS AND TOOLS

Shielded Contact Assembly Tools									
Contact P/N	Cable Accomodated		Gender	Size	Inner Contact		Cable Shield Hex		Insertion/Removal Tool
					Tool	Positioner	Tool	Hex Die	
<b>852-042</b>	LLSB-200, and LMR-195		Skt	8	Solder Contact		<b>809-129</b> M22520/5-01	<b>859-051</b> M22520/5-05	<b>859-049</b> M81969/14-12 Removal
<b>852-043</b>	LLSB-200, and LMR-195		Pin	8	Solder Contact		<b>809-129</b> M22520/5-01	<b>859-007 or 859-047</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
<b>852-056</b> 75 ohm	Dash: -01	V75268, V76261, V73263	Pin	8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or 859-047</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
	Dash: -02	RG179		8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>809-130</b> M22520/5-03	
<b>852-057</b> 75 ohm	Dash: -01	V75268, V76261, V73263	Skt	8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or 859-047</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
	Dash: -02	RG179		8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>809-130</b> M22520/5-03	
<b>853-003</b> (M39029/113)	M17/176-00002		Pin	8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-048</b> M22520/5-105	<b>859-049</b> M81969/14-12 Removal
<b>853-004</b> (M39029/114)	M17/176-00002		Skt	8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-048</b> M22520/5-105	<b>859-049</b> M81969/14-12 Removal
<b>853-013</b>	M17/176-00002		Skt	8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or 859-047</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
<b>853-014</b>	M17/176-00002		Pin	8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or 859-047</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
<b>853-017</b>	Raychem EPD 32263		Skt	8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or 859-047</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
<b>853-018</b>	Raychem EPD 32263		Pin	8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or 859-047</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
<b>853-024-XX</b>	Dash: -01	McDonnell Douglas ST5M1212-002	Skt	8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or 859-047</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
	Dash: -02	Raychem 7726D0664							
<b>853-025-XX</b>	Dash: -01	Raychem 7726D0664	Pin	8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or 859-047</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
	Dash: -02	McDonnell Douglas ST5M1212-002							

Shielded Contact Assembly Tools									
Contact P/N	Cable Accomodated		Gender	Size	Inner Contact		Cable Shield Hex		Insertion/ Removal Tool
					Tool	Positioner	Tool	Hex Die	
<b>854-001-XX</b>	Dash: -01	Tensolite NF26Q100	Pin	8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or</b> <b>859-047</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
	Dash: -02	Tensolite NF24Q100, PIC E51424		8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or</b> <b>859-047</b> M22520/5-45	
	Dash: -03	Draka Fileca F 4704-6		8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or</b> <b>859-047</b> M22520/5-45	
	Dash: -04	Draka Fileca F 4704-4		8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or</b> <b>859-047</b> M22520/5-45	
	Dash: -05	Tensolite NF22Q100		8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or</b> <b>859-047</b> M22520/5-45	
<b>854-002-XX</b>	Dash: -01	Tensolite NF26Q100	Skt	8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or</b> <b>859-047</b> M22520/5-45	<b>859-049</b> M81969/14-12 Removal
	Dash: -02	Tensolite NF24Q100, PIC E51424		8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or</b> <b>859-047</b> M22520/5-45	
	Dash: -03	Draka Fileca F 4704-6		8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or</b> <b>859-047</b> M22520/5-45	
	Dash: -04	Draka Fileca F 4704-4		8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or</b> <b>859-047</b> M22520/5-45	
	Dash: -05	Tensolite NF22Q100		8	<b>809-015</b> M22520/2-01	<b>859-072</b> <b>809-240</b> M22520/2-37	<b>809-129</b> M22520/5-01	<b>859-007 or</b> <b>859-047</b> M22520/5-45	

- Inner contacts, outer contact, ferrules, retaining nut: copper alloy, 50 microinches gold over nickel plating
- Insulators:  
 El Ochito® White: PPS, natural color  
 El Ochito® Blue: low-dielectric constant thermoplastic, blue  
 El Ochito® Red: low-dielectric constant thermoplastic, red
- O-ring: fluorosilicone
- Heatsrink tubing: PVDF
- Contact release sleeve: stainless steel, passivated
- Sealing boot grommet: fluorosilicone
- Sealing boot body: rigid thermoplastic, PEI or equivalent
- Spline, El Ochito® White: copper alloy, nickel plating
- Spline, El Ochito® Red and Blue: Polyimide