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22992 Class I

Back-Shells

Options Others

**MS/STANDARD CRIMP REAR RELEASE CONTACTS**

Contact Size	Wire Range		Socket Contacts		Pin Contacts	
	AWG	mm <sup>2</sup>	Military Part Number	Amphenol/Matrix Part Number	Military Part Number	Amphenol/Matrix Part Number
16S*	20-16	0.5-1.4	M39029/30-217	M5100-033-1601L	M39029/29-212	M5000-029-0016L
16	20-16	0.5-1.4	M39029/30-218	M5100-033-1602L	M39029/29-212	M5000-029-0016L
12	14-12	2-3	M39029/30-219	M5100-033-0012	M39029/29-213	M5000-029-0012
8	10-8†	5-8.5	M39029/30-220	M5100-033-0008	M39029/29-214	M5000-029-0008
4	6-4†	13-21	M39029/30-221	M5100-033-0004	M39029/29-215	M5000-029-0004
0	2-0†	34-60	M39029/30-222	M5100-033-0000	M39029/29-216	M5000-029-0000

\* Shorter wire barrel  
† Use MS3348 bushing kit to accommodate smaller wire.  
Note: For information on thermocouple contacts, consult Amphenol Aerospace

**CONTACT CURRENT RATING AND RETENTION**

Contact Size**	Current Rating		Contact Retention	
	Amperes Max.	Voltage Drop Millivolts	Axial Load	
			lb.	N
16	13	50	25	111.2
12	23	50	30	133.4
8	46	25	50	222.4
4	80	14	60	266.9
0	150	12	75	333.6

\*\* Organize individual circuits to maintain heat rise within operating temperature requirements.

**SEALING PLUGS**

Contact Size	Sealing Plugs	
	Military Part Number	Amphenol/Matrix Part Number
16S	MS27488-16-3	10-405996-163
16	MS27488-16-3	10-405996-163
12	MS27488-12-3	10-405996-123
8	MS27488-8-3	10-405996-083
4	MS27488-4-3	10-405996-043
0	MS27488-0-3	10-405996-003

**CRIMPING TOOLS**

Contact Size	Wire Range		Finished Wire Dia. Range		Color Code	Crimping Tool Part Number	Turret or Positioner Part Number
	AWG	mm <sup>2</sup>	Inch	mm			
16S	20-16	0.5-1.4	.053-.103	1.34-2.62	Red/White	M22520/1-01	M22520/1-02
16	20-16	0.5-1.4	.053-.103	1.34-2.62	Blue/White	M22520/1-01	M22520/1-02
12	14-12	2-3	.085-.158	2.15-4.01	Yell./White	M22520/1-01	M22520/1-02
8	10-8	5-8.5	.132-.255	3.35-6.48	White/Red	M22520/23-01	M22520/23-02
4	6-4	13-21	.237-.370	6.01-9.40	White/Blue	M22520/23-01	M22520/23-04
0	2-0	34-60	.360-.550	9.14-13.97	White/Yell.	M22520/23-01	M22520/23-05

**INSERTION/REMOVAL TOOLS**

Contact Size	Color Code	Military Part Number	Amphenol/Matrix Part Number
16	Blue/White	M81969/14-03	10-538988-016
12	Yellow/White	M81969/14-04	10-538988-012
8	Red	M81969/14-06	6500-018-0008
4	Blue	M81969/14-07	6500-018-0004
0	Yellow	M81969/14-08	6500-018-0000

Amphenol installation instructions, L-2106, gives information on insertion, removal and crimping of contacts for Matrix MIL-DTL-5015 connectors.

**BACKSHELLS**

The section of this catalog called "Backshells" covers the backshells for MIL-DTL-5015 that are provided through Amphenol PCD. Please refer to this section for:  
• Backshells for Connector Family "J", which includes MIL-DTL-26482 (Series II), MIL-DTL-5015 (MS3400), MIL-DTL-83723 (Series I & III).

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