

# Amphenol® Miniature Cylindrical insert availability

Insert Arrangement	Solder Termination					Crimp Termination			Total Contacts	Contact Size					Service Rating
	MS/PT	PT	SP	PC	Hermetic PT MS-PT PC	MS/PT-SE PT-SE SP-SE PC-SE	PT-CE SP-CE PC-CE	20		16	12	Coax			
												12	8		
6-1		X	X	X	X*			1	1					I	
8-2	X	X	X	X	X		X	2	2					I	
8-3	X	X	X	X	X		X	3	3					I	
8-4	X	X	X	X	X		X	4	4					I	
8-33		X	X	X	X	X		3	3					I	
8-98		X	X	X				3	3					I	
10-2		X	X	X				2		2				I	
10-5		X	X	X	X*			5	5					I	
10-6	X	X	X	X	X	X	X	6	6					I	
10-70		X	X	X				1					1	Coax	
10-98	X	X	X	X	X*		X	6	6					I	
12-3	X	X	X	X	X	X	X	3		3				II	
12-4		X	X	X	X*			4		4				I	
12-8	X	X	X	X	X*	X	X	8	8					I	
12-10	X	X	X	X	X	X	X	10	10					I	
12-14		X	X	X				14	14					I	
12-98		X	X	X				10	10					I	
14-2		X	X	X				2				2		II	
14-4		S	S	S	X			4			4			I	
14-5	X	X	X	X	X	X	X	5		5				II	
14-8		X	X	X				8	6		2			I	
14-12	X	X	X	X	X	X	X	12	8	4				I	
14-15	X	X	X	X	X	X	X	15	14	1				I	
14-18	X	X	X	X	X*	X	X	18	18					I	
14-19	X	X	X	X	X	X	X	19	19					I	
14-22						X*		5	1		4			I	
14-71		P	X	X			(02CE)	4		3			1	I	
14-91 HV		S	X	X		X*		3	3					**	
14-AA		X	X	X	X			4			4			I	
16-8	X	X	X	X	X	X	X	8		8				II	
16-23	X	X	X	X		X	X	23	22	1				I	
16-26	X	X	X	X	X	X	X	26	26					I	
16-70		X	X	X				15	14			1		N/A	
16-76†††						X*		14	8		1	5		***	
16-99	X	X	X	X		X		23	21	2				I	
18-5		X	X	X		X*		5			5			II	
18-8								8			8			I	
18-11	X	X	X	X	X	X	X	11		11				II	
18-30	X	X	X	X	X*	X	X	30	29	1				I	

\*Not available in MS version  
 \*\*Flashover voltage 5,000 VAC (RMS)  
 \*\*\*1500 VAC (RMS)  
 Sdesignates Socket insert only.

P designates Pin insert only.  
 †Size 12 contacts for #10 wire  
 ††Not presently tooled  
 †††Contacts must be ordered separately



# Amphenol<sup>®</sup> Miniature Cylindrical

## insert availability, cont.

Insert Arrangement	Solder Termination				Crimp Termination			Total Contacts	Contact Size					Service Rating
	MS/PT	PT	SP	PC	Hermetic PT MS-PT PC	MS/PT-SE PT-SE SP-SE PC-SE	PT-CE SP-CE PC-CE		20	16	12	Coax		
												12	8	
18-32	X	X	X	X	X	X	X	32	32					I
18-71						X*		9		8			1	Coax, II
18-72		X	X	X				14	10			4		N/A
18-75		X	X	X				4					4	Coax
18-76								4				3	1	II
18-80		X	X	X			X	8	6				2	Coax, I
18-91 HV						X*	X	6	6					**
20-16	X	X	X	X	X	X	X	16		16				II
20-24	X	X	X	X			X	24	24					I
20-25		X	X	X				25	25					I
20-26		X	X	X				26	20		6			I
20-27	X	X	X	X			X	27	27					I
20-39	X	X	X	X	X	X	X	39	37	2				I
20-41	X	X	X	X	X	X	X	41	41					I
20-70								14	10				4	Coax
20-90 HV		X	X	X				7	7					Hi-Voltage
22-7		X	X	X		X*		7					7	Coax
22-21	X	X	X	X	X	X	X	21		21				II
22-25						X*		25		25				I
22-32	X	X	X	X		X	P	32	32					I
22-34		X	X	X			X	34	34					I
22-36		X	X	X			X	36	36					I
22-41	X	X	X	X	X	X	X	41	27	14				I
22-55	X	X	X	X	X	X	X	55	55					I
22-70		X	X	X				19	13				6	I, Coax
22-71								9	2				7	I, Coax
22-72		X	X	X				19	12	4			3	N/A
22-78†††						X*		7					7	Coax
22-96						X*		7			7†			II
24-31		X	X	X			X	31		31				I
24-51						X*		51	47			4		I
24-61	X	X	X	X	X	X	X	61	61					I
24-71		X	X	X				49	45	2			2	N/A
24-79								6	1				5	Coax

\*Not available in MS version

\*\*Flashover voltage 5,000 VAC (RMS)

\*\*\*1500 VAC (RMS)

†Size 12 contacts for #10 wire

††Not presently tooled

†††Contacts must be ordered separately

# Amphenol<sup>®</sup> Miniature Breakaway Twist Pull insert availability

**Insert Availability - Breakway Twist Pull**

Insert Arrangement	Crimp Termination		Solder Termination	Total Contacts	Contact Size			
	PT-CE	PT-SE	PT		20	16	12	Service Rating
8-2	X		X	2	2			I
8-3	X		X	3	3			I
8-4	X		X	4	4			I
10-2			X	2		2		I
10-6	X	X	X	6	6			I
10-98	X		X	6	6			I
10-99	X	X		7	7			I
12-3	X	X	X	3		3		II
12-4			X	4		4		I
12-8	X	X	X	8	8			I
12-10	X	X	X	10	10			I
12-98			X	10	10			I
14-2			X	2			2	II
14-5	X	X	X	5		5		II
14-8			X	8	6		2	I
14-12	X	X	X	12	8	4		I
14-15	X	X	X	15	14	1		I
14-16			X	4		2	2	II
14-18	X	X	X	18	18			I
14-19	X	X	X	19	19			I
14-91		X	X	3	3*			H.V.
16-6			X	6			6	I
16-8	X	X	X	8		8		II
16-23	X	X	X	23	22	1		I
16-26	X	X	X	26	26			I
16-99		X	X	23	21	2		I
18-5		X	X	5			5	II
18-11	X	X	X	11		11		II
18-28		X	X	28	26	2		I
18-30	X	X	X	30	29	1		I
18-32	X	X	X	32	32			I
18-91		X	X	6	6*			H.V.
20-8			X	8		8		I
20-16	X	X	X	16		16		II
20-24	X		X	24	24			I
20-25			X	25	25			I
20-27	X		X	27	27			I
20-39	X	X	X	39	37	2		I
20-41	X	X	X	41	41			I
22-8			X	8		8		II
22-21	X	X	X	21		21		II
22-25		X		25		25		I
22-32	X	X	X	32	32			I
22-34	X		X	34	34			I
22-36	X		X	36	36			I
22-41		X	X	41	27	14		I
22-55	X	X	X	55	55			I
22-96		X		7			7†	II
22-97			X	16		16		II
22-99			X	11		11		II
24-31	X			31		31		I
24-61	X	X	X	61	61			I

For further information regarding any additional insert patterns available in Breakaway Miniature connectors, please contact Amphenol Aerospace. For availability of shielded coax contacts within Breakaway Miniature connectors contact Amphenol. The Breakaway style pages are: PT (solder) breakaway plug is on page 26, the PT-SE (crimp) breakaway plug is on page 38, and the PT-CE (crimp) breakaway plug is on page 48.

\* 5KV Voltage Rating  
† Size 12 contact for #10 wire.



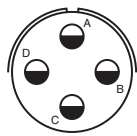
# Amphenol® Miniature Cylindrical insert arrangements

front face of pin inserts illustrated

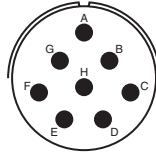
<b>Insert Arrangement</b>	<b>6-1</b>	<b>8-2</b>	<b>8-3</b>	<b>8-4</b>	<b>8-33</b>	<b>8-98</b>	<b>10-2</b>
<b>Service Rating</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>
<b>Number of Contacts</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>2</b>
<b>Contact Size</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>16</b>
<b>Insert Arrangement</b>	<b>10-5</b>	<b>10-6</b>	<b>10-70</b>	<b>10-98</b>	<b>12-3</b>	<b>12-4</b>	<b>12-8</b>
<b>Service Rating</b>	<b>I</b>	<b>I</b>	<b>Coax</b>	<b>I</b>	<b>II</b>	<b>I</b>	<b>I</b>
<b>Number of Contacts</b>	<b>5</b>	<b>6</b>	<b>1</b>	<b>6</b>	<b>3</b>	<b>4</b>	<b>8</b>
<b>Contact Size</b>	<b>20</b>	<b>20</b>	<b>8 Coax</b>	<b>20</b>	<b>16</b>	<b>16</b>	<b>20</b>
<b>Insert Arrangement</b>	<b>12-10</b>	<b>12-14</b>	<b>12-98</b>	<b>14-2</b>	<b>14-4</b>	<b>14-5</b>	<b>14-8</b>
<b>Service Rating</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>II</b>	<b>I</b>	<b>II</b>	<b>I</b>
<b>Number of Contacts</b>	<b>10</b>	<b>14</b>	<b>10</b>	<b>2</b>	<b>4</b>	<b>5</b>	<b>6 2</b>
<b>Contact Size</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>12</b>	<b>12</b>	<b>16</b>	<b>20 12</b>
<b>Insert Arrangement</b>	<b>14-12</b>	<b>14-15</b>	<b>14-18</b>	<b>14-19</b>	<b>14-22</b>	<b>14-71</b>	<b>14-91HV</b>
<b>Service Rating</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>Flashover</b>
<b>Number of Contacts</b>	<b>8 4</b>	<b>14 1</b>	<b>18</b>	<b>19</b>	<b>1 4</b>	<b>3 1</b>	<b>5,000 VAC (RMS)</b>
<b>Contact Size</b>	<b>20 16</b>	<b>20 16</b>	<b>20</b>	<b>20</b>	<b>20 12</b>	<b>16 8 Coax</b>	<b>3 20</b>

# Amphenol<sup>®</sup> Miniature Cylindrical insert arrangements

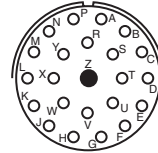
front face of pin inserts illustrated



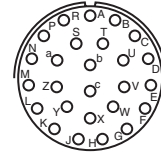
**14-AA**  
I  
4  
12



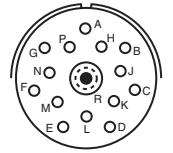
**16-8**  
II  
8  
16



**16-23**  
I  
22 1  
20 16

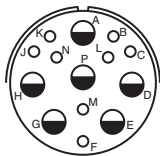


**16-26**  
I  
26  
20

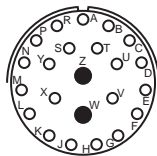


**16-70**  
N/A  
14 1  
20 12 Coax

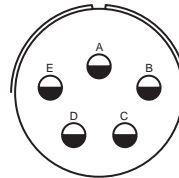
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size



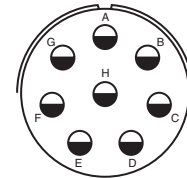
**16-76**  
Flashover  
1,500 VAC (RMS)  
8 1 5  
20 12\* 2 Coax\*



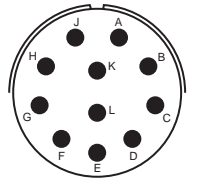
**16-99**  
I  
21 2  
20 16



**18-5**  
II  
5  
12



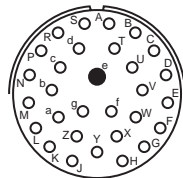
**18-8**  
I  
8  
12



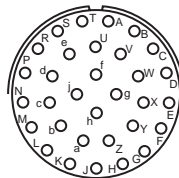
**18-11**  
II  
11  
16

Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

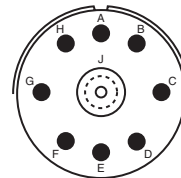
\*Contact Positions Optional



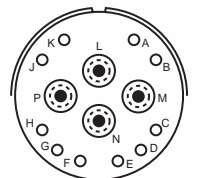
**18-30**  
I  
29 1  
20 16



**18-32**  
I  
32  
20

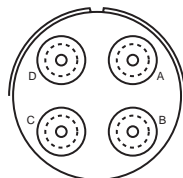


**18-71**  
II, Coax  
8 1  
16 8 Coax

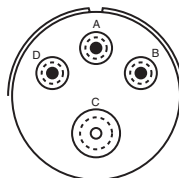


**18-72**  
N/A  
10 4  
20 12 Coax

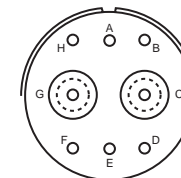
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size



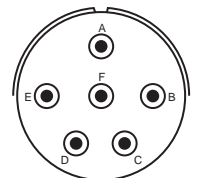
**18-75**  
Coax  
4  
8 Coax



**18-76**  
II  
3 1  
12 Coax 8 Coax



**18-80**  
I, Coax  
6 2  
20 8 Coax

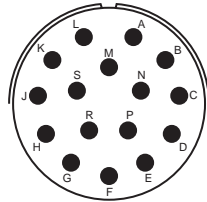


**18-91 HV**  
Flashover  
5,000 VAC (RMS)  
6  
20

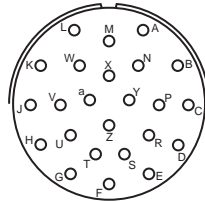
Insert Arrangement  
Service Rating  
Number of Contacts  
Contact Size

# Amphenol® Miniature Cylindrical insert arrangements

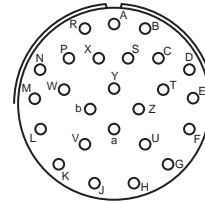
front face of pin inserts illustrated



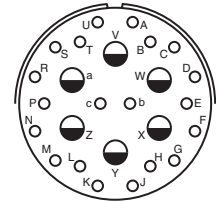
**20-16**  
**II**  
**16**  
**16**



**20-24**  
**I**  
**24**  
**20**

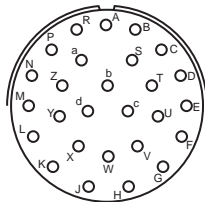


**20-25**  
**I**  
**25**  
**20**

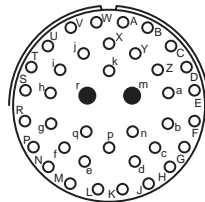


**20-26**  
**I**  
**20 6**  
**20 12**

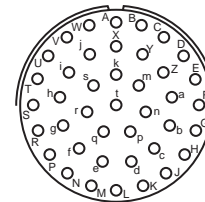
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**



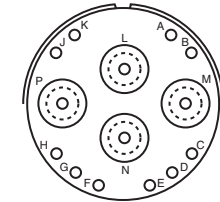
**20-27**  
**I**  
**27**  
**20**



**20-39**  
**I**  
**37 2**  
**20 16**

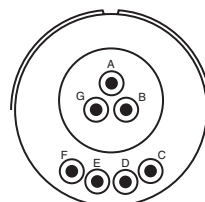


**20-41**  
**I**  
**41**  
**20**

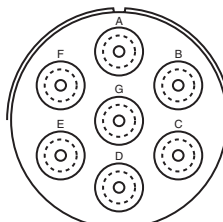


**20-70**  
**Coax**  
**10 4**  
**20 8 Coax**

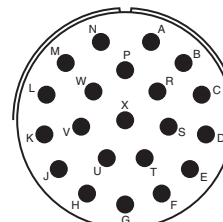
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**



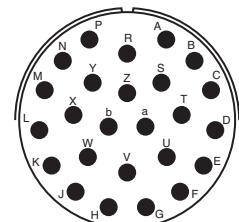
**20-90**  
**Hi-Voltage**  
**7**  
**20**



**22-7**  
**Coax**  
**7**  
**8 Coax**

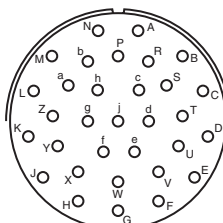


**22-21**  
**II**  
**21**  
**16**

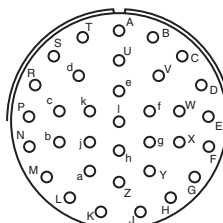


**22-25**  
**I**  
**25**  
**16**

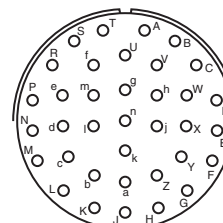
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**



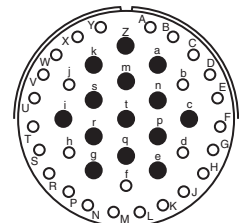
**22-32**  
**I**  
**32**  
**20**



**22-34**  
**I**  
**34**  
**20**



**22-36**  
**I**  
**36**  
**20**

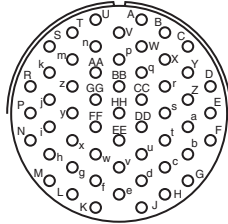


**22-41**  
**I**  
**27 14**  
**20 16**

**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

# Amphenol® Miniature Cylindrical insert arrangements

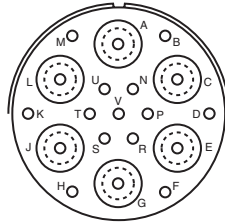
front face of pin inserts illustrated



**22-55**

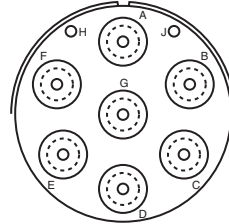
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**I**  
**55**  
**20**



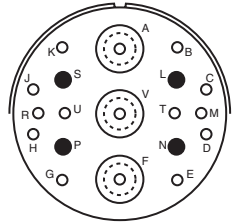
**22-70**

**I, Coax**  
**13 6**  
**20 8 Coax**



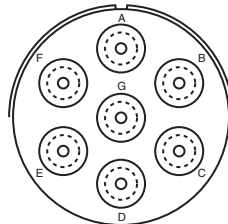
**22-71**

**I, Coax**  
**2 7**  
**20 8 Coax**



**22-72**

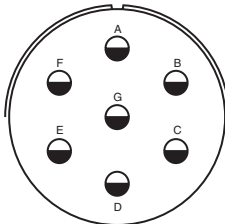
**N/A**  
**12 4 3**  
**20 16 8 Coax**



**22-78**

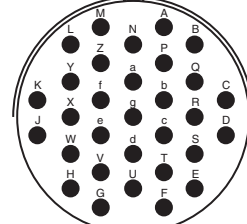
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**Coax**  
**7**  
**8 Coax**



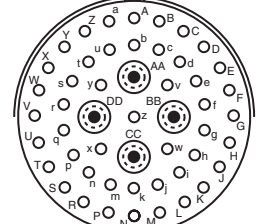
**22-96**

**II**  
**7**  
**12 for**  
**# 10 wire**



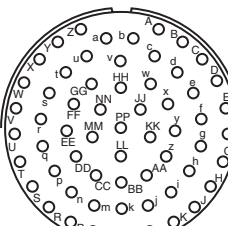
**24-31**

**I**  
**31**  
**16**



**24-51**

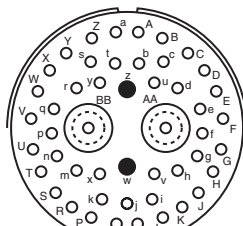
**I**  
**47 4**  
**20 12 Coax**



**24-61**

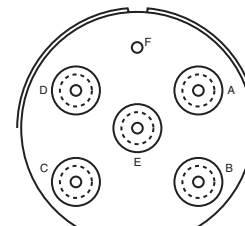
**Insert Arrangement**  
**Service Rating**  
**Number of Contacts**  
**Contact Size**

**I**  
**61**  
**20**



**24-71**

**N/A**  
**45 2 2**  
**20 16 8 Coax**



**24-79**

**Coax**  
**1 5**  
**20 8 Coax**

**Contact Legend**

Symbol	Contact Size
○	20
●	16
◐	12
⊙	HV
⊗	12 Coax
⊘	8 Coax