

Amphenol® /Matrix® MIL-C-26482, Series 2 Connectors

12-071-4

Bayonet Coupling, with Crimp Rear Release Contacts



For Military and Industrial Interconnection Applications

Amphenol

This catalog covers the Amphenol® /Matrix® MIL-C-26482, Series 2 Connectors. These connectors are bayonet coupling type, and they feature crimp contacts that are rear insertable and rear releasable. They can be ordered through Amphenol, by military or equivalent proprietary part numbers.

The Matrix® connectors covered in this catalog broaden the miniature cylindrical family offered by Amphenol, so that now users have the broadest range of product available to them. Additional miniature cylindricals are covered in the Amphenol catalog, 12-070, which is available upon request. The 12-070 Amphenol® catalog covers a large variety of miniature cylindricals including the following:

- MIL-C-26482, Series 1 - bayonet coupling connectors with solder contacts
- MIL-C-26482, Series 1 - bayonet coupling connectors with front release crimp contacts
- Other proprietary crimp and solder types including hermetics and connectors with printed circuit board contacts, as well as other shell styles, alternative connector finishes and additional contact options
- Additional miniature cylindricals that have double stub threaded coupling rather than bayonet coupling

See page 15 for more information on these additional miniature cylindrical connector products.

Also, ask for these Amphenol Product Catalogs:
 Amphenol Industrial Connector Brochure, SL-381, for an overview of the industrial family of connectors.
 Amphenol Brochure SL-100, which provides an overview of all products, military and industrial, offered through Amphenol Aerospace.

Should more information be required concerning the connectors covered in this publication, or if special application needs arise, please contact:

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 Amphenol Aerospace
 40-60 Delaware Avenue
 Sidney, New York 13838-1395
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 Fax: 607-563-5157
 Web site: www.Amphenol-Aerospace.com

Visit our website for this catalog and other catalogs of Amphenol products.

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Amphenol Aerospace operates Quality Systems that are Certified to ISO-9001 and AS-9100 by third party Registrars.

Amphenol[®] / Matrix[®] Miniature Cylindrical MIL-C-26482, Series 2 Connectors



MS3470
wall mounting receptacle
with narrow flange



MS3472
wall mounting receptacle
with wide flange



MS3471
cable connecting receptacle



MS3474
jam nut receptacle



MS3476
straight plug
MS3475
plug with RFI grounding
fingers

Amphenol broadens their Miniature Cylindrical Family of Connectors with the addition of the Matrix[®] Product line of MIL-C-26482, Series 2 connectors.

This series provides a bayonet coupling connector with crimp rear insertable, rear releasable contacts.

DESIGN CHARACTERISTICS

- Medium size, environmentally resistant connector
- Recommended operating voltage to 1,000 VAC (RMS) at sea level
- Quick positive coupling assured by 3 point bayonet coupling system
- Visual confirmation of complete coupling
- Eliminates mismating by the use of five key/keyway design
- Insertion and removal of contacts from the rear of the connector assures no damage to the front that might affect the sealing characteristics
- Utilizes same standard qualified rear-release type plastic tool for contact insertion and removal
- Contacts are qualified to MIL-C-39029 requirements – BIN coded (three color bands), and are crimped with standard crimp tools per MIL-C-22520
- Grommets are constructed of tear-resistant elastomer and experience no degradation when exposed to a broad range of fluids
- Sealing over a range of wire diameters is assured by a triple webbed grommet at the rear of the connector
- Closed entry socket side of the insert is designed with a lead-in chamfer and a hard face that will accept a pin contact bent within pre-established limits
- Elastomer interfacial seal on the pin side has raised barriers around each pin which displace into the socket chamfer when mated, providing a positive moisture seal

CUSTOMER OPTIONS

- Shell styles within this family include:
Wall mount with either a narrow or a wide flange, jam nut single hole mount, and cable connecting receptacles, along with standard plugs or plugs with RFI grounding fingers, in shell sizes 8 to 24
- MS and Proprietary versions available
- Accommodation of contact sizes 20, 16 and 12
- 34 insert arrangement patterns available, accommodating from a minimum of 3 to a maximum of 55 circuits
- Alternate positioning available
- Various finishes are available (for information on non-cadmium zinc alloy plating, consult Amphenol, Sidney, NY)

Amphenol[®]/Matrix[®] Miniature Cylindrical MIL-C-26482, Series 2 Connectors

class descriptions, performance specifications

CLASS DESCRIPTIONS

Military MIL-C-26482, Series 2	Amphenol/Matrix Proprietary MB1 Series	Description
Class L	Class R	Aluminum shell, electroless nickel finish, fluid resistant
Class E	–	Inactive, superceded by Class L*
Class R	–	Inactive, superceded by Class L*
Class A	Class A	Aluminum shell, black non-conductive anodized finish, fluid resistant
–	Class G	Stainless steel shell, passivated, fluid resistant
Class W	Class W	Aluminum shell, olive drab cadmium plated, corrosion/fluid resistant

* Ref. MIL-C-26482

PERFORMANCE SPECIFICATIONS

SERVICE RATINGS**

Service Rating	Recommended Operating AC Voltage at Sea Level	Test Voltage AC (RMS), 60 cps			
		Sea Level	50,000 ft.	70,000 ft.	110,000 ft.
I	600	1,500	500	375	200
II	1,000	2,300	750	500	200

** Service Rating is comparable to MS rating A. Miniature connectors rated Service Rating I will provide a minimum flashover voltage at sea level of 2,000 volts AC (RMS). Service Rating II is comparable to MS Service Rating D, and will provide a minimum flashover voltage of 2,800 volts AC (RMS) at sea level.

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.

OPERATING TEMPERATURE RANGE

–65°C (–85°F) to 200°C (392°F)

ENVIRONMENTAL SEAL

Wired, mated connectors with the specified accessory attached will meet the altitude immersion test specified in MIL-C-26482.

DURABILITY

Minimum of 500 mating cycles.

SHOCK AND VIBRATION REQUIREMENTS

When tested as follows, the connector shall sustain no physical damage, or electrical discontinuity exceeding one microsecond.

SHOCK:

Pulse of an approximate half sine wave of 300g magnitude with duration of 3 milliseconds applied in three axes.

VIBRATION:

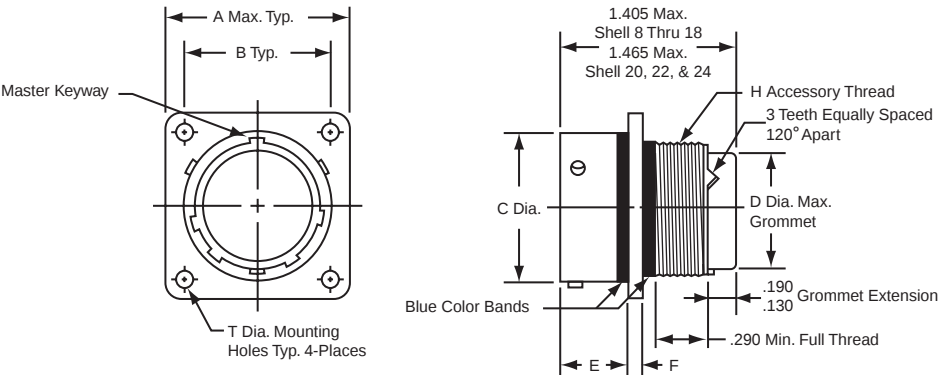
Sixteen hours of random vibration having a range of 50 to 2,000 Hz with a 41.7G peak level.

Miniature Cylindrical MIL-C-26482, Series 2 MS3470

wall mounting receptacle with narrow flange

Receptacle Shell, Wall Mount with Narrow Flange,
Bayonet Coupling

Military No. MS3470
Amphenol/Matrix No. MB10



To complete order number see how to order, page 14.

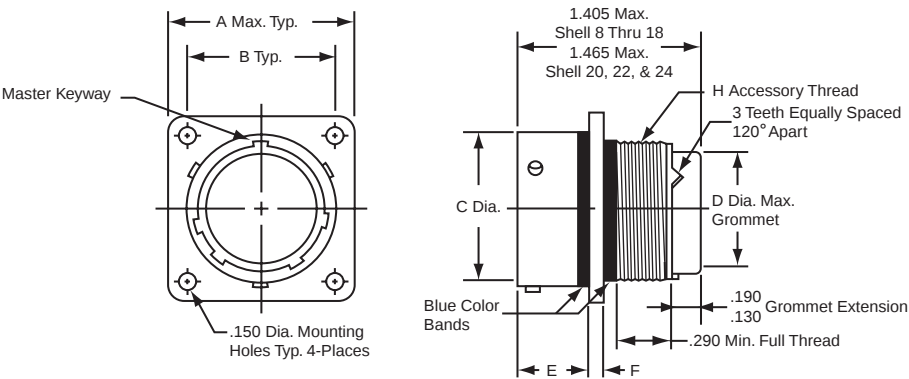
Shell Size	A Max.	B ±.005	C Dia. ±.003	D Dia. Max.	E	F ±.016	H Accessory Thread Class 2A	T ±.005
8	.828	.594	.471	.305	.462/.431	.062	.5000-20 UNF	.120
10	.954	.719	.588	.405	.462/.431	.062	.6250-24 UNEF	.120
12	1.047	.812	.748	.531	.462/.431	.062	.7500-20 UNEF	.120
14	1.141	.906	.873	.665	.462/.431	.062	.8750-20 UNEF	.120
16	1.234	.969	.998	.790	.462/.431	.062	1.0000-20 UNEF	.120
18	1.328	1.062	1.123	.869	.462/.431	.062	1.0625-18 UNEF	.120
20	1.453	1.156	1.248	.994	.587/.556	.094	1.1875-18 UNEF	.120
22	1.578	1.250	1.373	1.119	.587/.556	.094	1.3125-18 UNEF	.120
24	1.703	1.375	1.498	1.244	.620/.589	.094	1.4375-18 UNEF	.147

Miniature Cylindrical MIL-C-26482, Series 2 MS3472

wall mounting receptacle with wide flange

Receptacle Shell, Wall Mount with Wide Flange,
Bayonet Coupling

Military No. MS3472
Amphenol/Matrix No. MB11



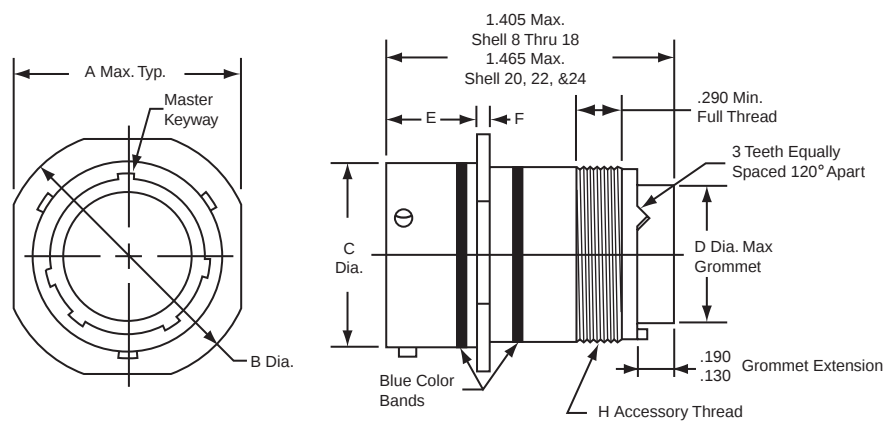
To complete order number see how to order, page 14.

Shell Size	A Max.	B ±.005	C Dia. ±.003	D Dia. Max.	E	F ±.016	H Thread Class 2A
8	1.065	.734	.471	.305	.493/.462	.062	.5000-20 UNF
10	1.141	.812	.588	.405	.493/.462	.062	.6250-24 UNEF
12	1.266	.938	.748	.531	.493/.462	.062	.7500-20 UNEF
14	1.360	1.031	.873	.665	.493/.462	.062	.8750-20 UNEF
16	1.453	1.125	.998	.790	.493/.462	.062	1.0000-20 UNEF
18	1.532	1.203	1.123	.869	.493/.462	.062	1.0625-18 UNEF
20	1.688	1.297	1.248	.994	.587/.556	.094	1.1875-18 UNEF
22	1.766	1.375	1.373	1.119	.587/.556	.094	1.3125-18 UNEF
24	1.891	1.500	1.498	1.244	.620/.589	.094	1.4375-18 UNEF

Miniature Cylindrical MIL-C-26482, Series 2 MS3471 cable connecting receptacle

Receptacle Shell, Cable Connecting,
Bayonet Coupling

Military No. MS3471
Amphenol/Matrix No. MB13



To complete order number see how to order, page 14.

Shell Size	A Max.	B Dia. ±.020	C Dia. ±.003	D Dia. Max.	E	F ±.016	H Thread Class 2A
8	.828	.938	.471	.305	.462/.431	.062	.5000-20 UNF
10	.954	1.062	.588	.405	.462/.431	.062	.6250-24 UNEF
12	1.047	1.156	.748	.531	.462/.431	.062	.7500-20 UNEF
14	1.141	1.250	.873	.665	.462/.431	.062	.8750-20 UNEF
16	1.234	1.344	.998	.790	.462/.431	.062	1.0000-20 UNEF
18	1.328	1.438	1.123	.869	.462/.431	.062	1.0625-18 UNEF
20	1.453	1.562	1.248	.994	.587/.556	.094	1.1875-18 UNEF
22	1.578	1.688	1.373	1.119	.587/.556	.094	1.3125-18 UNEF
24	1.703	1.812	1.498	1.244	.620/.589	.094	1.4375-18 UNEF

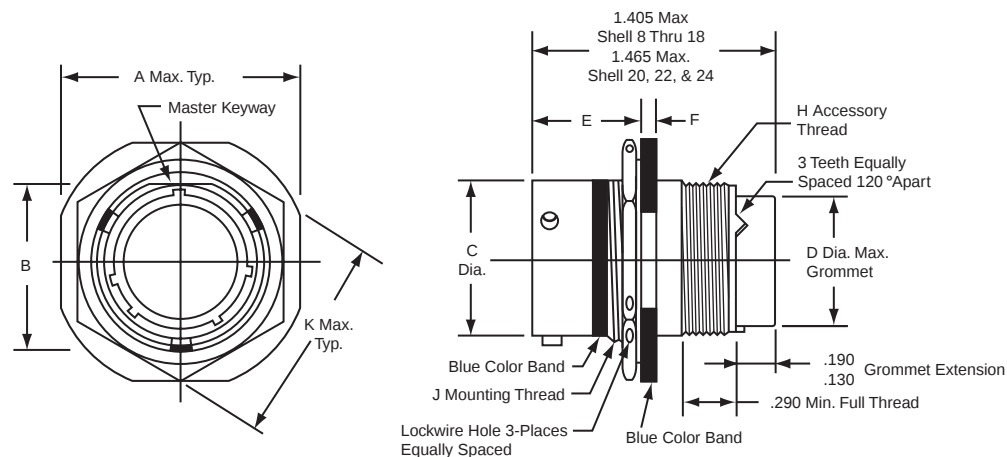
Miniature Cylindrical MIL-C-26482, Series 2

MS3474

jam nut receptacle

Receptacle Shell, Jam Nut Mount,
Bayonet Coupling

Military No. MS3474
Amphenol/Matrix No. MB14



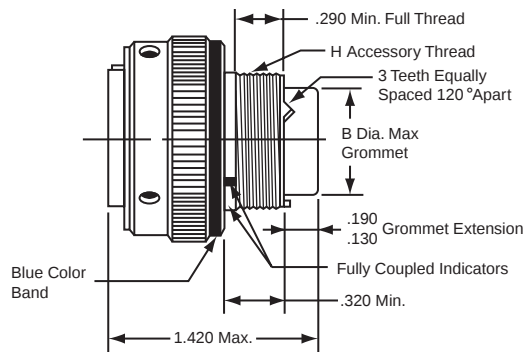
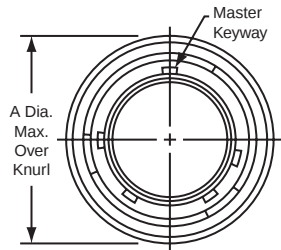
To complete order number see how to order, page 14.

Shell Size	A Max.	B ±.005	C Dia. ±.003	D Dia. Max.	E	F	H Accessory Thread Class 2A	J Mounting Thread Class 2A	K Max.
8	.954	.525	.471	.305	.707/.658	.113/.086	.5000-20 UNF	.5625-24 UNEF	.767
10	1.078	.650	.588	.405	.707/.658	.113/.086	.6250-24 UNF	.6875-24 UNEF	.892
12	1.266	.813	.748	.531	.707/.658	.113/.086	.7500-20 UNEF	.8750-20 UNEF	1.079
14	1.391	.937	.873	.665	.707/.658	.113/.086	.8750-20 UNEF	1.0000-20 UNEF	1.205
16	1.516	1.061	.998	.790	.707/.658	.113/.086	1.0000-20 UNEF	1.1250-18 UNEF	1.329
18	1.641	1.186	1.123	.869	.707/.658	.113/.086	1.0625-18 UNEF	1.2500-18 UNEF	1.455
20	1.828	1.311	1.248	.994	.772/.721	.148/.096	1.1875-18 UNEF	1.3750-18 UNEF	1.579
22	1.954	1.436	1.373	1.119	.772/.721	.148/.096	1.3125-18 UNEF	1.5000-18 UNEF	1.705
24	2.078	1.561	1.498	1.244	.772/.721	.148/.096	1.4375-18 UNEF	1.6250-18 UNEF	1.829

Miniature Cylindrical MIL-C-26482, Series 2

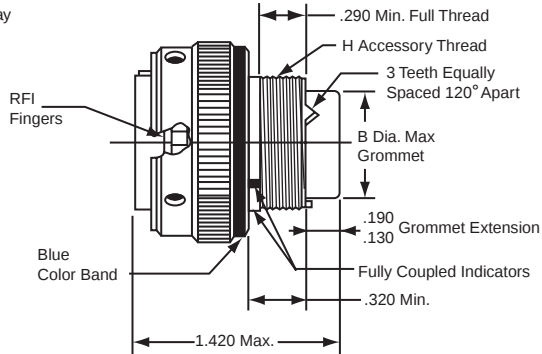
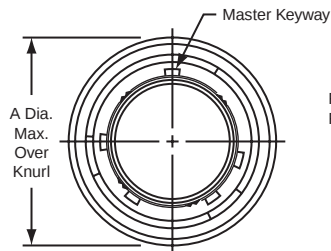
MS3476 straight plug

MS3475 straight plug with RFI grounding fingers



**Plug Shell,
Bayonet Coupling**

**Military No. MS3476
Amphenol/Matrix No. MB16**



**Plug Shell, RFI Grounding,
Bayonet Coupling**

**Military No. MS3475
Amphenol/Matrix No. MB18**

To complete order number see how to order, page 14.

Shell Size	A Dia. Max.	B Dia. Max.	H Accessory Thread Class 2A
8	.782	.305	.5000-20 UNF
10	.926	.405	.6250-24 UNEF
12	1.043	.531	.7500-20 UNEF
14	1.183	.665	.8750-20 UNEF
16	1.305	.790	1.0000-20 UNEF
18	1.391	.869	1.0625-18 UNEF
20	1.531	.994	1.1875-18 UNEF
22	1.656	1.119	1.3125-18 UNEF
24	1.777	1.244	1.4375-18 UNEF

Miniature Cylindrical MIL-C-26482, Series 2

insert arrangements, insert alternate positioning

INSERT ARRANGEMENTS

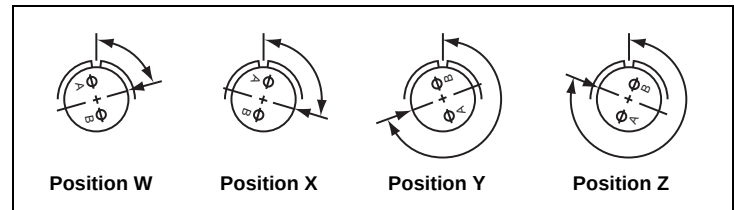
Insert Arrangement	Service Rating	Total Contacts	Contact Size		
			12	16	20
8-33	I	3			3
8-98	I	3			3
10-6	I	6			6
12-3	II	3		3	
12-8	I	8			8
12-10	I	10			10
14-4	I	4	4		
14-5	II	5		5	
14-9S	I	9	4		5
14-12	I	12		4	8
14-15	I	15		1	14
14-18	I	18			18
14-19	I	19			19
16-8	II	8		8	
16-23S	I	23		1	22
16-26	I	26			26
18-8	I	8	8		
18-11S	II	11		11	
18-30S	I	30		1	29
18-32	I	32			32
20-16	II	16		16	
20-24S	I	24			24
20-39	I	39		2	37
20-41	I	41			41
22-12S	I	12	12		
22-19S	I	19	19		
22-21	II	21		21	
22-32S	I	32			32
22-41	I	41		14	27
22-55	I	55			55
22-95S	I	32	6		26
24-19S	II	19	19		
24-31	I	31		31	
24-61	I	61			61

Arrangements designated with an S are tooled in socket only.

INSERT ALTERNATE POSITIONING

To avoid cross-plugging problems in applications requiring the use of more than one connector of the same size and arrangement, alternate rotations are available as indicated in the chart below.

As shown in the diagram, the front face of the pin insert is rotated within the shell in a clockwise direction from the normal shell key. The socket insert would be rotated counter-clockwise the same number of degrees in respect to the normal shell key.

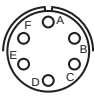
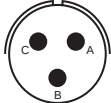
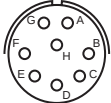
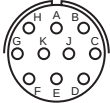


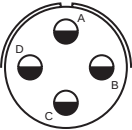
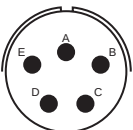
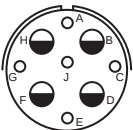
View looking into front face of pin insert or rear of socket insert.

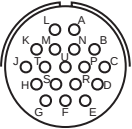
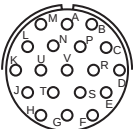
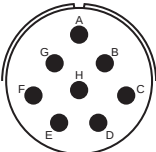
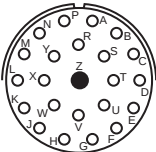
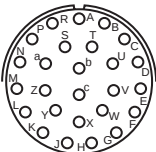
Insert Arrangement	Degrees			
	W	X	Y	Z
8-33	90	—	—	—
8-98	—	—	—	—
10-6	90	—	—	—
12-3	—	—	180	—
12-8	90	112	203	292
12-10	60	155	270	295
14-4	45	—	—	—
14-5	40	92	184	273
14-9	15	90	180	270
14-12	43	90	—	—
14-15	17	110	155	234
14-18	15	90	180	270
14-19	30	165	315	—
16-8	54	152	180	331
16-23	158	270	—	—
16-26	60	—	275	338
18-8	180	—	—	—
18-11	62	119	241	340
18-30	180	193	285	350
18-32	85	138	222	265
20-16	238	318	333	347
20-24	70	145	215	290
20-39	63	144	252	333
20-41	45	126	225	—
22-12	—	—	—	—
22-19	15	90	225	308
22-21	16	135	175	349
22-32	72	145	215	288
22-41	39	135	264	—
22-55	30	142	226	314
22-95	26	180	266	—
24-19	30	165	315	—
24-31	90	225	255	—
24-61	90	180	270	324

Miniature Cylindrical MIL-C-26482, Series 2 contact arrangements

front face of pin insert or rear face of socket insert illustrated

						
Insert Arrangement	8-33	8-98	10-06	12-03	12-08	12-10
Service Rating	I	I	I	II	I	I
Number of Contacts	3	3	6	3	8	10
Contact Size	20	20	20	16	20	20

					
Insert Arrangement	14-04	14-05	14-09	14-12	14-15
Service Rating	I	II	I	I	I
Number of Contacts	4	5	5 4	8 4	14 1
Contact Size	12	16	20 12	20 16	20 16

					
Insert Arrangement	14-18	14-19	16-08	16-23	16-26
Service Rating	I	I	II	I	I
Number of Contacts	18	19	8	22 1	26
Contact Size	20	20	16	20 16	20

CONTACT LEGEND

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20

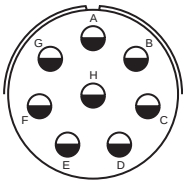
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12

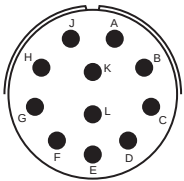
Miniature Cylindrical MIL-C-26482, Series 2 contact arrangements

front face of pin insert or rear face of socket insert illustrated

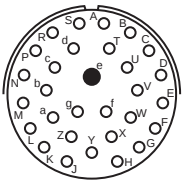
Insert Arrangement
Service Rating
Number of Contacts
Contact Size



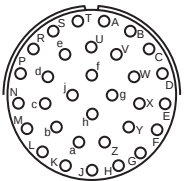
18-08
I
8
12



18-11
II
11
16

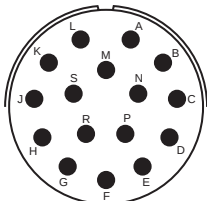


18-30
I
29 1
20 16

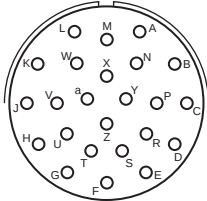


18-32
I
32
20

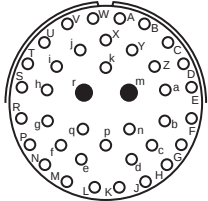
Insert Arrangement
Service Rating
Number of Contacts
Contact Size



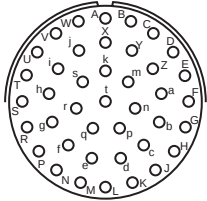
20-16
II
16
16



20-24
I
24
20

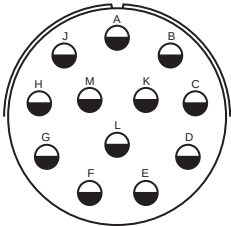


20-39
I
37 2
20 16

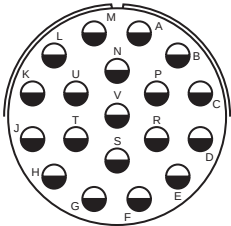


20-41
I
41
20

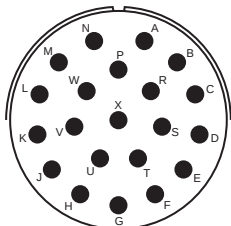
Insert Arrangement
Service Rating
Number of Contacts
Contact Size



22-12
I
12
12



22-19
I
19
12



22-21
II
21
16

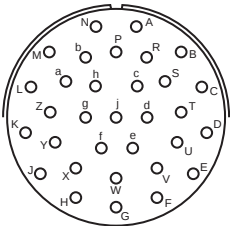
CONTACT LEGEND



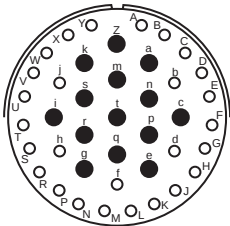
Miniature Cylindrical MIL-C-26482, Series 2 contact arrangements

front face of pin insert or rear face of socket insert illustrated

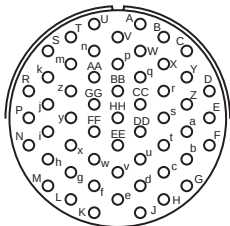
Insert Arrangement
Service Rating
Number of Contacts
Contact Size



22-32
I
32
20

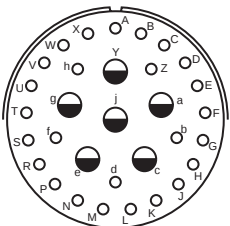


22-41
I
27 14
20 16

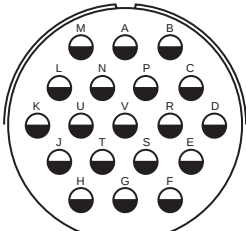


22-55
I
55
20

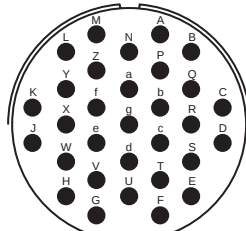
Insert Arrangement
Service Rating
Number of Contacts
Contact Size



22-95
I
26 6
20 12

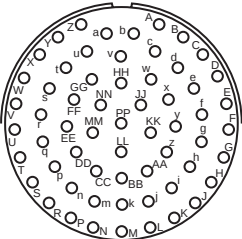


24-19
II
19
12



24-31
I
31
16

Insert Arrangement
Service Rating
Number of Contacts
Contact Size



24-61
I
61
20

CONTACT LEGEND

○ 20
● 16
◐ 12

Miniature Cylindrical MIL-C-26482, Series 2 contact information, sealing plugs, crimping and insertion/removal tools

MIL-C-26482, SERIES 2 CRIMP CONTACTS

Contact Size	Wire Range		Socket Contacts		Pin Contacts	
	AWG	mm ²	Military Part Number	Amphenol/Matrix Part Number	Military Part Number	Amphenol/Matrix Part Number
20	24-20	0.2-0.6	M39029/5-115	M5100-001-0020L	M39029/4-110	M5000-054-0020L
16	20-16	0.5-1.4	M39029/5-116	M5100-001-0016L	M39029/4-111	M5000-054-0016L
12	14-12	2-3	M39029/5-118	M5100-001-0012L	M39029/4-113	M5000-054-0012L

CONTACT CURRENT RATING AND RETENTION

Contact Size*	DC Test Amperage	Contact Retention	
		Axial Load	
		lb.	N
20	7.5	15	66.7
16	13.0	25	111.2
12	23.0	30	133.4

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

SEALING PLUGS

Contact Size	Sealing Plugs	
	Military Part Number	Amphenol/Matrix Part Number
20	MS27488-20	10-405996-020
16	MS27488-16	10-405996-016
12	MS27488-12	10-405996-012

CRIMPING TOOLS

Contact Size	Wire Range		Finished Wire Dia. Range		Crimping Tool Part Number	Turret or Positioner Part Number
	AWG	mm ²	Inch	mm		
20	24-20	0.2-0.6	.040-.083	1.02-2.11	M22520/1-01 or M22520/2-01	M22520/1-02 or M22520/2-02
16	20-16	0.5-1.4	.053-.103	1.34-2.62	M22520/1-01	M22520/1-02
12	14-12	2-3	.097-.158	2.46-4.01	M22520/1-01	M22520/1-02

INSERTION/REMOVAL TOOLS

Contact Size	Color Code	Military Part Number	Amphenol/Matrix Part Number
20	Red/White	M81969/14-11	10-538988-021
16	Blue/White	M81969/14-03	10-538988-016
12	Yellow/White	M81969/14-04	10-538988-012

Note: Each connector is furnished with contacts. One spare for inserts requiring 1 to 26 of each contact, two spares for inserts with more than 26 contacts, and a minimum of one sealing plug up to 15% of the number of contacts.

MIL-C-26482, Series 2

how to order

HOW TO ORDER BY MILITARY PART NUMBER MIL-C-26482 SERIES 2 CONNECTORS

<u>MS</u>	<u>3470</u>	<u>W</u>	<u>12</u>	<u>10</u>	<u>P</u>	<u>W</u>
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>

1. Connector Type
MS designates Military Standard
2. Connector Style
 - 3470 wall mounting receptacle with narrow flange
 - 3472 wall mounting receptacle with wide flange
 - 3471 cable connecting receptacle
 - 3474 jam nut receptacle
 - 3476 straight plug
 - 3475 straight plug with RFI grounding fingers
3. Service Class
 - L aluminum shell, electroless nickel finish, fluid resistant insert
 - A aluminum shell, black anodized finish, non-conductive fluid resistant insert
 - W aluminum shell, olive drab cadmium plated, fluid resistant insert

Note: For stainless steel shell, passivated, order by Amphenol®/Matrix® proprietary Class G.
Class L inactivates older classes E and R (Ref. MIL-C-26482)
- 4., 5. Shell size and insert arrangement - See chart on page 9 and pattern drawings that follow.
6. Contact Types
 - P designates pin
 - S designates socket
 - A designates less pins
 - B designates less sockets

Note: Use A & B only when other than a full complement of power contacts is to be installed.
7. Insert Rotation
"W", "X", "Y", "Z" designate that insert is rotated in its shell from normal position. No letter required for normal (no rotation) position. See page 9 for description of alternate positions.

HOW TO ORDER BY PROPRIETARY PART NUMBER MIL-C-26482 SERIES 2 CONNECTORS

<u>MB1</u>	<u>0</u>	<u>W</u>	<u>12</u>	<u>10</u>	<u>P</u>	<u>W</u>	<u>***</u>
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>

1. Connector Type
MB1 designates Amphenol®/Matrix® Bayonet Coupling Connector
2. Connector Style
 - 0 wall mounting receptacle with narrow flange
 - 1 wall mounting receptacle with wide flange
 - 3 cable connecting receptacle
 - 4 jam nut receptacle
 - 6 straight plug
 - 8 straight plug with RFI grounding fingers
3. Service Class
 - A aluminum shell, black anodize finish, non-conductive, fluid resistant insert
 - R aluminum shell, electroless nickel finish, fluid resistant insert
 - G stainless steel shell, passivated, fluid resistant insert
 - W aluminum shell, cadmium plated, olive drab finish, fluid resistant insert
- 4., 5. Shell size and insert arrangement - See chart on page 9 and pattern drawings that follow.
6. Contact Types
 - P designates pin
 - S designates socket
7. Insert Rotation
"W", "X", "Y", "Z" designate that insert is rotated in its shell from normal position. No letter required for normal (no rotation) position. See page 9 for description of alternate positions.
8. Modification Number
Consult Amphenol, Sidney, NY for information.
For strain reliefs use the following modification codes:
(189) E-nut M85049/31 configuration
(190) Straight strain relief M85049/52 configuration
(191) 90° strain relief M85049/51 configuration

For ordering information on accessories, such as protection caps and backshell hardware, contact Amphenol, Sidney, NY.