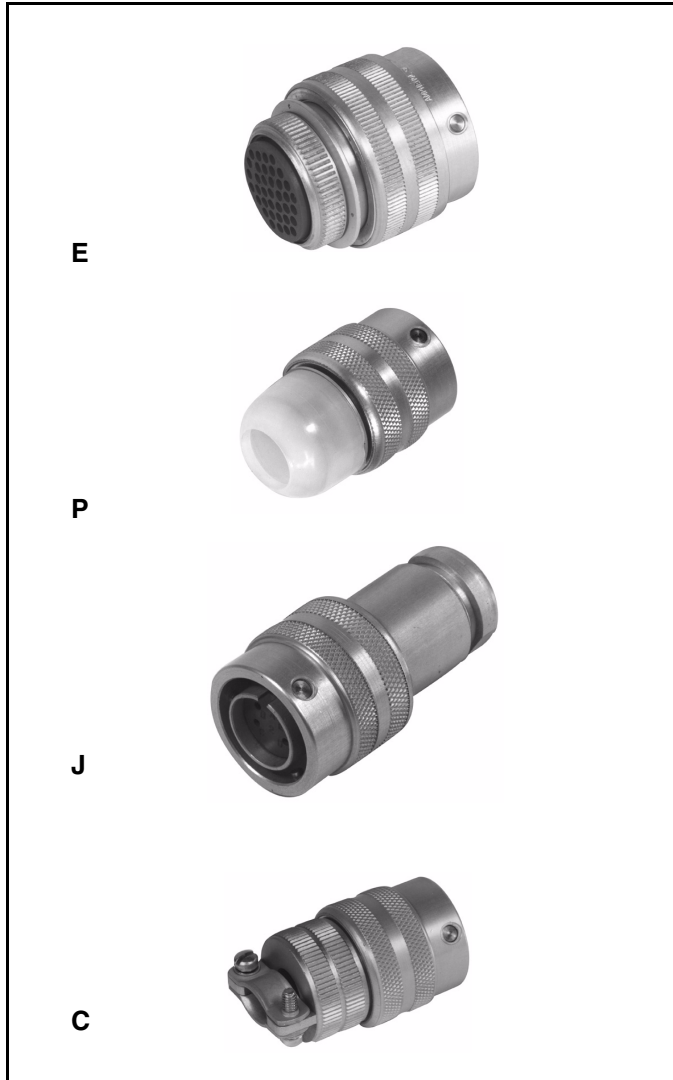


# Amphenol® 67 Series “Minni E” environmental resistant cylindrical connectors



## DESIGN CHARACTERISTICS

- Approximately half the weight of standard cylindricals
- Quick, positive, stainless steel bayonet coupling
- Operating temperatures from -67°F to +257°F per MIL-C-5015
- Sealed connectors capable of 1500 VRMS at 70,000 ft. altitude
- Vibration resistance of 10 to 2,000 cps at 20Gs
- Interfacial seal of neoprene rubber with individual contact barriers
- Moisture resistance exceeds MIL-C-5015 requirements with potting
- UL approved recognition file E115497

## CUSTOMER OPTIONS

- Five shell styles
- Choice of unitized back end grommet or provision for potting
- Seventeen insert configurations
- Four construction classes available:
  - E - with unitized grommet for individual wire seal
  - P - includes potting mold
  - J - sealing clamp for jacketed cable
  - C - vise action with two-screw strain relief

Shell components are fabricated from high grade aluminum with gray anodize finish and stainless steel bayonet pins and slots. Contacts are copper alloy gold over nickel plate. Inserts are diallyl phthalate, providing high arc and insulation resistance under both humidity and thermal stress conditions. Positive locking action is provided by the spring-loaded coupling ring.

Amphenol® 67 Series connectors are ideal for applications that require a light to medium weight, durable, environmentally sealed connector.

For additional information on Amphenol® 67 Series connectors, or for special application requirements, contact your local sales office, authorized distributor, or

Amphenol Corporation  
Amphenol Aerospace  
40-60 Delaware Avenue  
Sidney, New York 13838-1395  
Phone: 607-563-5011  
Fax: 607-563-5157  
www.amphenol-aerospace.com

## Voltage Rating

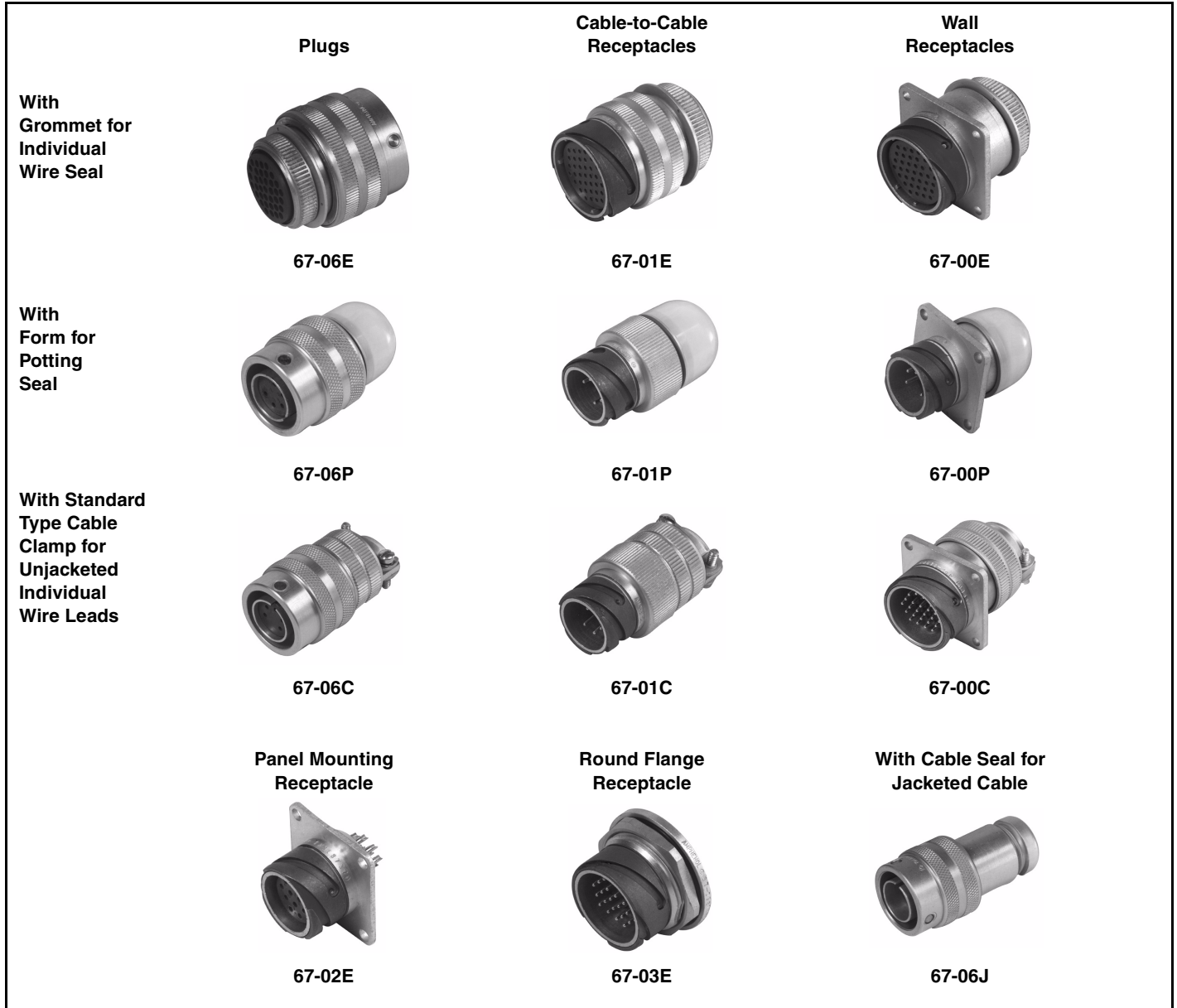
	Rating**	Mechanical Spacing (Nominal)	Flashover V-RMS*	Test V-RMS*	Recommended Working Voltage	
					DC	AC
Sea Level (unsealed)	A	.034	2,000	1,500	700	500
	B	.046	2,300	1,800	840	600
Sea Level (sealed)	A	.034	2,500	2,000	700	500
	B	.046	3,000	2,500	840	600
70,000 ft. (unsealed)	A	.034	500	375	175	125
	B	.046	600	450	210	150
70,000 ft. (sealed)	A	.034	2,500	1,500	700	500
	B	.046	3,000	1,800	840	600

\* RATING - "B" rating is for insert 14-5 which takes a higher voltage; "A" rating is for other inserts.

\*\* TYPICAL FLASHOVER VOLTAGES AT STANDARD CONDITIONS  
(unsealed) Refers to connectors with no provisions for sealing front or rear areas.  
(sealed) Refers to connectors that are potted or pressurized in mounting, with front and rear areas sealed.

**Amphenol Aerospace is a certified ISO 9001 manufacturer.**

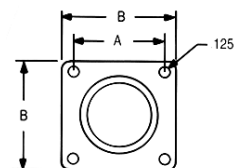
# 67 Series connector applications



## Mounting Dimensions

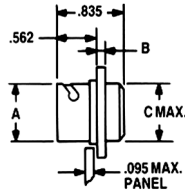
(For all 67 Series square flange connectors)

Connector Size	A	B	Suggested Mounting Hole
12	.812	1.031	.700
14	.906	1.125	.822
18	1.062	1.312	1.072
20	1.156	1.437	1.197
22	1.250	1.562	1.291

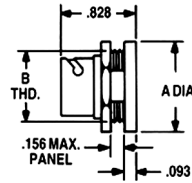


NOTE: All dimensions for reference only.

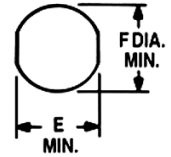
# 67 Series connector applications



67-02E



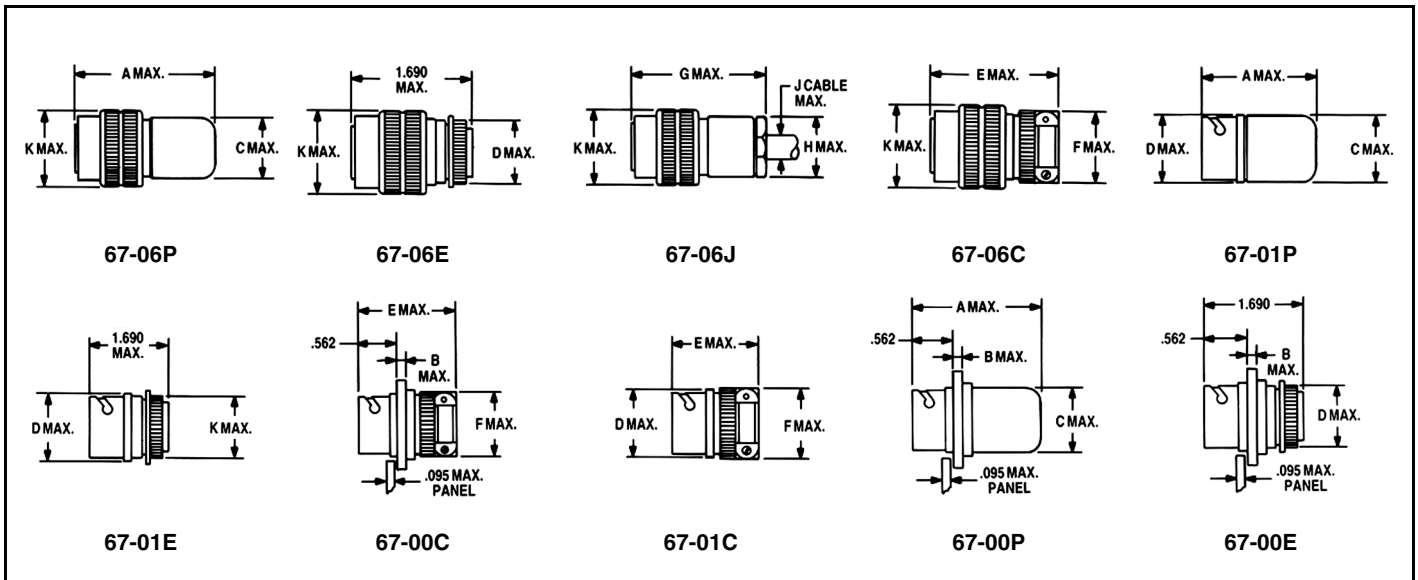
67-03E



Suggested  
Mounting Hole

Connector Size	A	B	C
12	.662	.062	.690
14	.781	.062	.812
18	1.032	.093	1.062
20	1.156	.093	1.187
22	1.281	.093	1.281

Connector Size	A	B	E	F
12	1.031	.750	.695	.755
14	1.156	.875	.820	.880
18	1.406	1.125	1.079	1.130
20	1.531	1.250	1.195	1.255
22	1.656	1.375	1.320	1.380



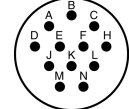
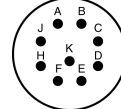
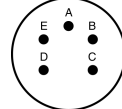
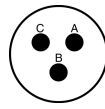
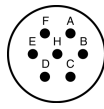
Connector Size	A	B	C	D	E	F	G	H	J	K
12	1.687	.093	.795	.895	1.870	.817	1.937	.706	.250	.957
14	1.687	.093	.920	1.000	1.870	.967	1.937	.812	.375	1.082
18	1.687	.093	1.170	1.250	1.870	1.185	1.937	1.062	.656	1.375
20	1.734	.093	1.223	1.375	1.970	1.312	2.312	1.187	.750	1.500
22	1.734	.093	1.352	1.468	1.970	1.440	2.312	1.317	.875	1.625

NOTE: All dimensions for reference only.

# 67 Series

## insert arrangements

front face of insert illustrated



Insert Arrangement  
Number of Contacts  
Contact Size

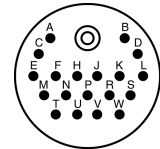
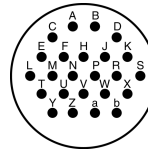
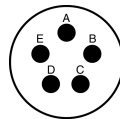
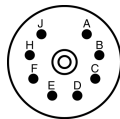
12-7  
7  
20

12-60  
3  
16

14-5  
5  
20

14-9  
9  
20

14-12  
12  
20



Insert Arrangement  
Number of Contacts  
Contact Size

14-61  
8  
20

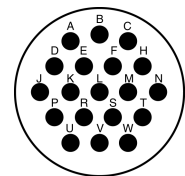
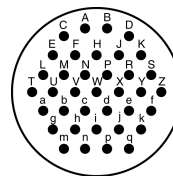
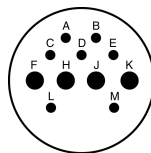
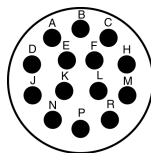
14-63  
5  
16

18-24  
24  
20

18-62  
19  
20

plus 1 shielded contact

plus 1 shielded contact



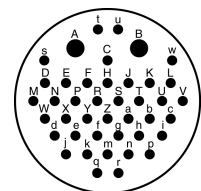
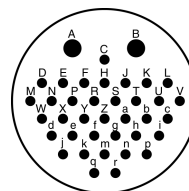
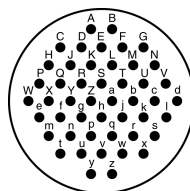
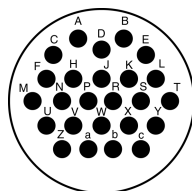
Insert Arrangement  
Number of Contacts  
Contact Size

18-64  
14  
16

18-65  
7 4  
20 16

20-37  
37  
20

20-66  
19  
16



Insert Arrangement  
Number of Contacts  
Contact Size

22-67  
25  
16

22-48  
48  
20

22-68  
36 2  
20 16

22-69  
40 2  
20 16

Current rating - #20 contact: 7.5 amps, #16 contact: 12 amps  
Shielded contact: 7.5 amps

Contact Legend

16 ●

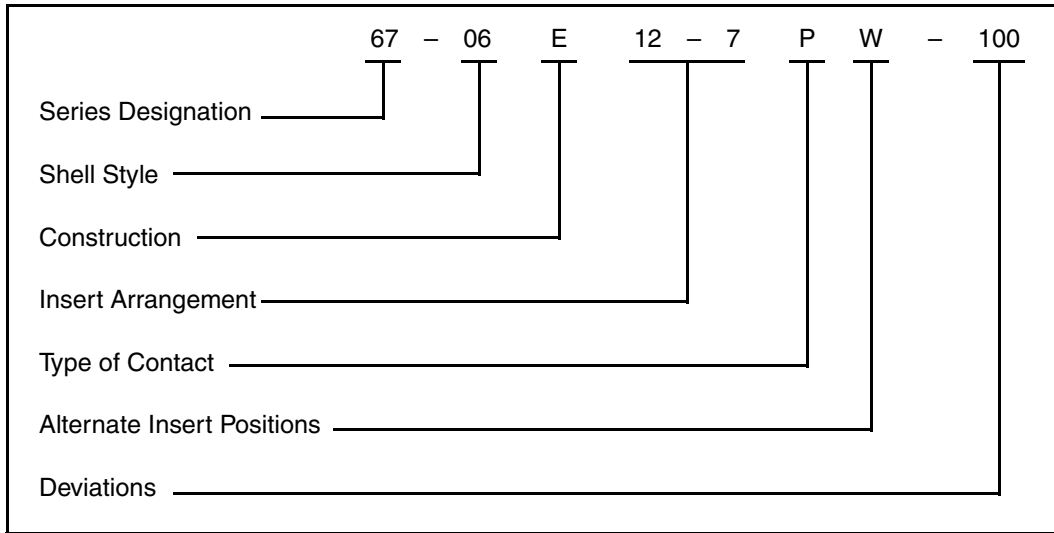
20 ●

shielded ☉

# 67 Series

## how to order

Amphenol® 67 Series “Minni E” Connectors can be ordered by coded part number. Ordering procedure is illustrated by part number 67-06E12-7PW-100 as shown below:



### Series Designation

67 -

### Shell Style

- 00 - Wall mounting receptacle
- 01 - Cable mounting receptacle
- 02 - Panel mount receptacle
- 03 - Rear panel mount, round flange receptacle
- 06 - Cable plug - straight

### Construction

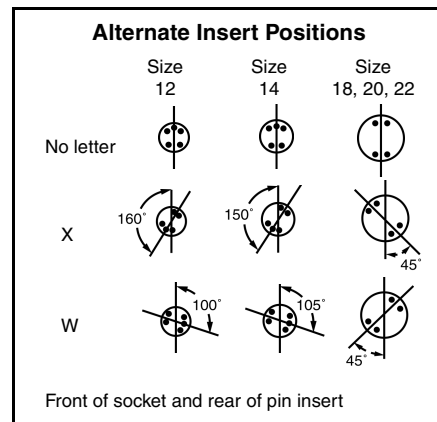
- E Environmentally sealed (Unitized grommet)
- P Environmentally sealed (Disposable polyethylene potting form furnished)
- J Sealing clamp for jacketed cable (Waterproof)
- C Mechanical Clamp (Sealed only when potted)

### Insert Arrangement

See available insert arrangements, page 4

### Type of Contact

- P - Pin
- S - Socket



### Deviations

- 100 - 100 μin. gold over silver contacts
- 106 - Pretinned solder wells
- 113 - Aluminum parts iridite finish