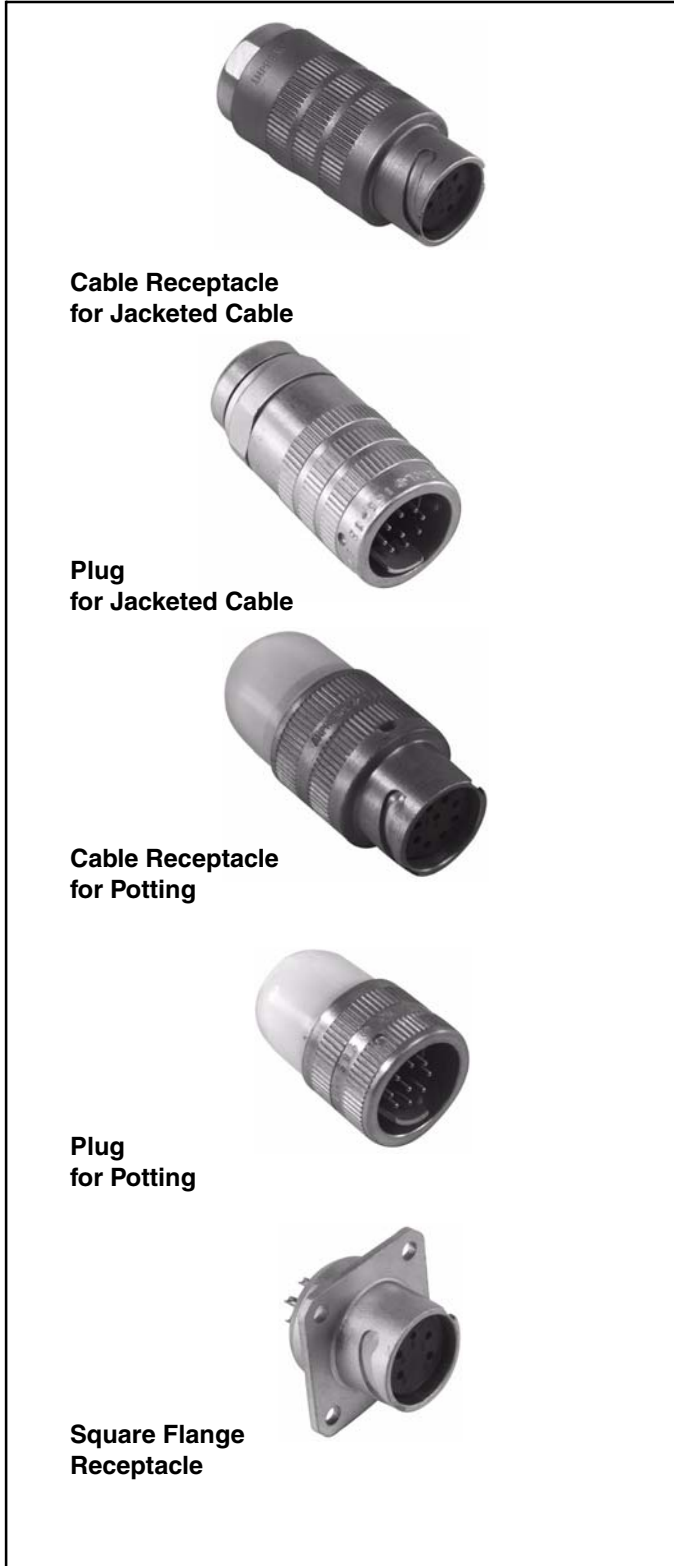


# Amphenol® 165 Series

## miniaturized standard connectors



### DESIGN CHARACTERISTICS

- Approximately one-third the size and weight of standard MIL-C-5015 connectors
- Quick, positive, bayonet coupling
- O-ring seals in both plugs and receptacles make connectors pressure proof and water protected when mated
- Meets pressure seal requirements of MIL-C-5015, Class C construction
- UL approved recognition file E115497

### CUSTOMER OPTIONS

- Five shell styles in two sizes - large and small
- Seven insert configurations

Shell components are fabricated from high grade aluminum with gray anodize finish. 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. Connectors using female inserts feature a sandwich construction with the insert spun into a cartridge. Connectors are factory sealed to prevent leakage.

Amphenol® 165 Series connectors are ideal for applications that demand a lightweight connector that meets MIL-C-5015 requirements.

For additional information on Amphenol® 165 Series connectors, or for special application requirements, contact your local sales office, authorized distributor, or

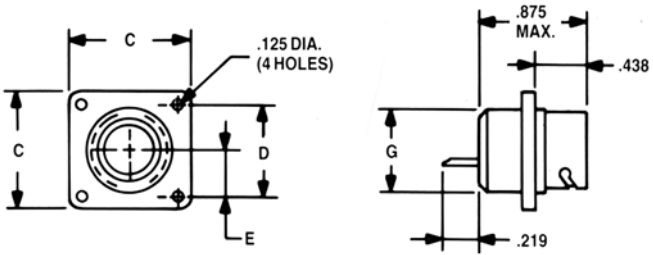
Amphenol Corporation  
 Amphenol Aerospace  
 40-60 Delaware Avenue  
 Sidney, New York 13838-1395  
 Phone: 607-563-5011  
 Fax: 607-563-5157

### Connector Weights

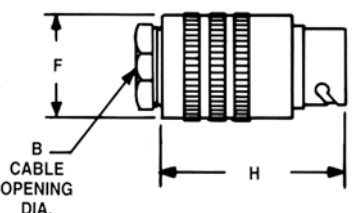
Style	Weight (pounds)	
	Small	Large
Cable receptacle for potting	0.0415	0.0599
Cable receptacle	0.0600	0.0945
Panel receptacle	0.0264	0.0439
Plug	0.0659	0.0975
Plug for potting	0.0302	0.0490

Amphenol Aerospace is a certified ISO 9001 manufacturer.

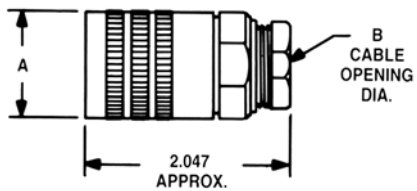
# 165 Series connector applications



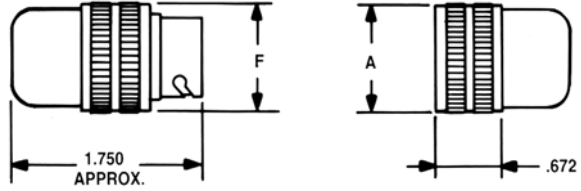
Panel Receptacle



Cable Receptacle



Cable Plug



Potting Construction

	A	B	C	D	E	F	G	H
Small	.891	.375*	1.063	.781	.391	.875	.813	1.922
Large	1.141	.656	1.313	.969	.484	1.125	1.063	1.938

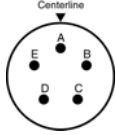
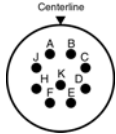
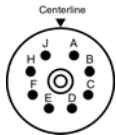
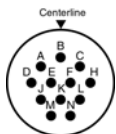
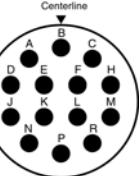
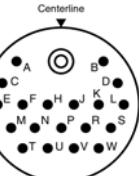
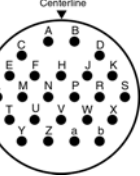
\* 165-33 and 165-34 have cable opening of .281  
NOTE: All dimensions for reference only

# 165 Series

## insert arrangements, order information

front face of insert illustrated

The following chart provides ordering information. For example, to order a 165 Series plug with pin contacts use part number 165-33.

Insert Arrangements	Insert Style	Plug	Receptacle Sq. Flange	Cable Receptacle	Potting Constructions	
					Plug	Receptacle
 <p>5 #20 contacts Current Rating (Amperes) 7.5</p> <p>Voltage rating (Volts RMS at sea level) 600</p>	Pin	165-33	165-35	165-35-1002	165-33-1000	165-35-1000
	Socket	165-34	165-36	165-36-1003	165-34-1000	165-36-1000
 <p>9 #20 contacts Current Rating (Amperes) 7.5</p> <p>Voltage rating (Volts RMS at sea level) 500</p>	Pin	165-13	165-15	165-15-1002	165-13-1000	165-15-1000
	Socket	165-14	165-16	165-16-1003	165-14-1000	165-16-1000
 <p>8 #20 contacts, 1 Shielded contact Current Rating (Amperes) 10.0</p> <p>Voltage rating (Volts RMS at sea level) 500</p>	Pin	165-82	165-73	165-73-1001	165-82-1000	165-73-1000
	Socket	165-61-1008	165-83	165-83-1001	165-61	165-83-1000
 <p>12 #20 contacts Current Rating (Amperes) 7.5</p> <p>Voltage rating (Volts RMS at sea level) 500</p>	Pin	165-9	165-11	165-11-1002	165-9-1000	165-11-1000
	Socket	165-10	165-12	165-12-1002	165-10-1000	165-12-1000
 <p>14 #16 contacts Current Rating (Amperes) 17.0</p> <p>Voltage rating (Volts RMS at sea level) 500</p>	Pin	165-29	165-31	165-31-1003	165-29-1000	165-31-1000
	Socket	165-30	165-32	165-32-1006	165-30-1000	165-32-1000
 <p>19 #20 contacts, 1 Shielded contact Current Rating (Amperes) 10.0</p> <p>Voltage rating (Volts RMS at sea level) 500</p>	Pin	165-86	165-84	165-84-1001	165-86-1000	165-84-1000
	Socket	165-62-1007	165-85	165-85-1001	165-62	165-85-1000
 <p>24 #20 contacts Current Rating (Amperes) 7.5</p> <p>Voltage rating (Volts RMS at sea level) 500</p>	Pin	165-25	165-27	165-27-1005	165-25-1000	165-27-1000
	Socket	165-26	165-28	165-28-1003	165-26-1000	165-28-1000