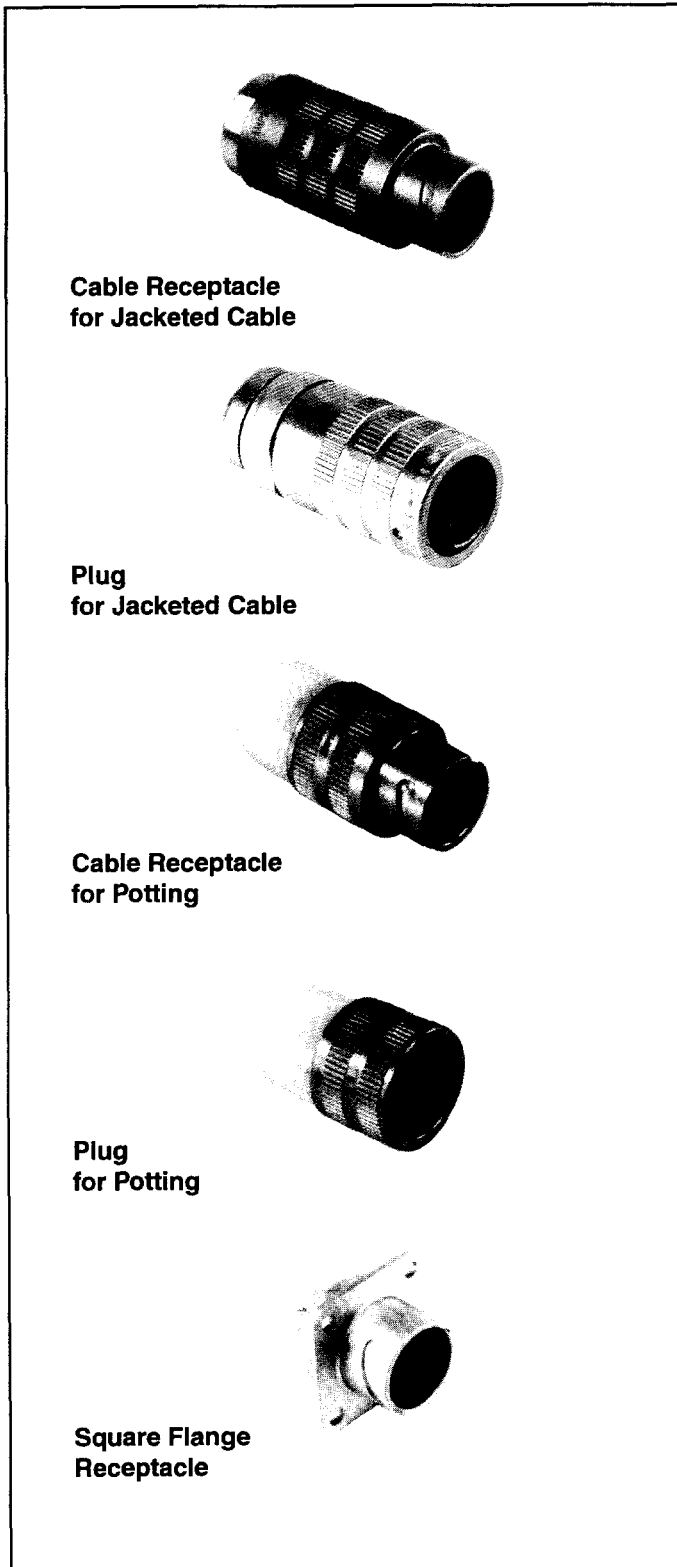


Amphenol® 165 Series miniaturized standard connectors



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

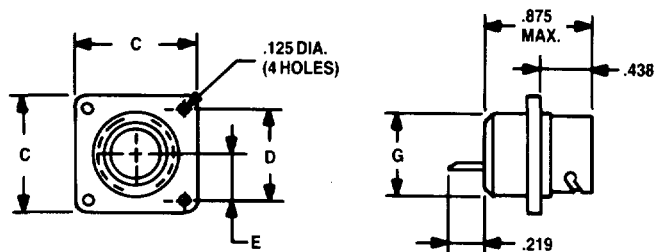
Amphenol Corporation
Amphenol Aerospace
40-60 Delaware Avenue
Sidney, New York 13838-1395
Phone: 607-563-5011
Fax: 607-563-5157

Connector Weights

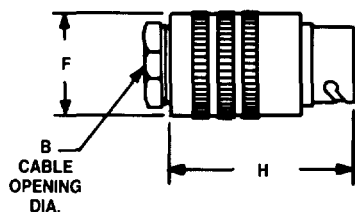
| Style | Weight (pounds) | |
|------------------------------|-----------------|--------|
| | Small | Large |
| Cable receptacle for potting | 0.0415 | 0.0599 |
| Cable receptacle | 0.0600 | 0.0945 |
| Panel receptacle | 0.0264 | 0.0439 |
| Plug | 0.0659 | 0.0975 |
| Plug for potting | 0.0302 | 0.0490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

Amphenol Aerospace is a certified ISO 9001 manufacturer.

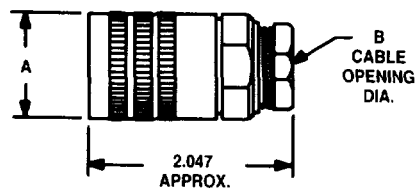
165 Series connector applications



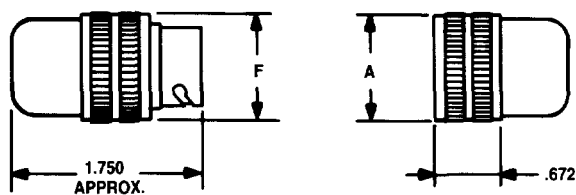
Panel Receptacle



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

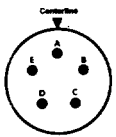
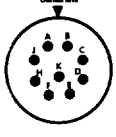
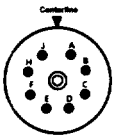
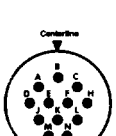
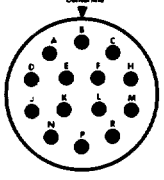
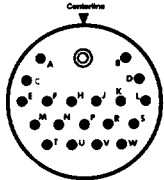
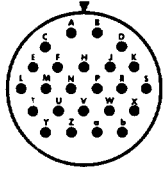
NOTE: All dimensions for reference only

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