

Specifications for "F" Connectors

F style connectors are the least expensive, general purpose connectors with non-constant impedance for use at 500 volts or less, and for use with low frequencies to 500Mhz. These coaxial connectors are widely used in Cable TV, MATV, CCTV, and related consumer television products. They are available in a limited selection to fit various cables sizes.

| MATERIALS | |
|--------------------------|-----------------|
| Connector Parts | Material |
| Connector Body and Parts | Brass |
| Male Contact Pin | Brass |
| Insulators. | Polypropylene |
| Plating | Nickel |
| Ferrule | Annealed Copper |

| ELECTRICAL | |
|--------------------------------|--------------------|
| Requirement | Performance |
| Impedance | Non Constant |
| Frequency Range | 0-500MHz |
| VSWR | 1.5 Max. |
| Working Voltage (At Sea level) | 500V rms |
| Insulation Resistance | 5000 Megohm Min. |
| Contact Resistance | 3 mΩ Max. |
| Test Voltage | 1000V r.m.s. |

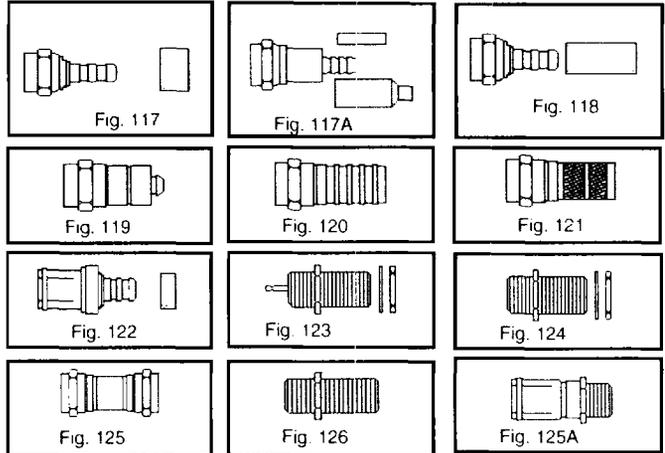
| MECHANICAL & ENVIRONMENTAL | |
|---------------------------------------|--------------------|
| Requirement | Performance |
| Durability | 500 Matings |
| Shock | 30 G |
| Cable Retention | 40 Lbs. Min. |
| Temperature Range | -40 to +65°C. |
| Moisture Range | Continuous Test |

"F" Connectors

Plugs, Jacks, Adapters

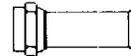
F type plugs are available in three different crimp styles: two piece with separate ferrules, one piece crimp with a short crimp body and a one piece crimp with a long body. Also, a twist-on type for tool-less installations. Jacks for bulkhead, inline, or PC board, and a variety of adapters are all machined brass construction.

| Part Number | Description | RG/U | Fig. Cable No. |
|-------------|---|------|----------------|
| 810A209A | 2 Piece Crimp Plug, Short Ferrule | 6 | 117 |
| 810A209D | 2 Piece Crimp Plug, Short Ferrule | 11 | 117 |
| 810A209G | 2 Piece Crimp Plug, Short Ferrule | 59 | 117 |
| 810B209G | 2 Piece Crimp Plug, Long Ferrule | 59 | 118 |
| 810D209A | 1 Piece Crimp Plug, Short Ferrule | 6 | 119 |
| 810A209MV | 4 Pc Crimp Mini Coax. Uses BD11007 Tool | 174 | 117A |
| 810D209D | 1 Piece Crimp Plug, Short Ferrule | 11 | 119 |
| 810D209G | 1 Piece Crimp Plug, Short Ferrule | 59 | 119 |
| 810E209A | 1 Piece Crimp Plug, Long Ferrule | 6 | 120 |
| 810E209D | 1 Piece Crimp Plug, Long Ferrule | 11 | 120 |
| 810E209G | 1 Piece Crimp Plug, Long Ferrule | 59 | 120 |
| 810A409A | Twist-On | 6 | 121 |
| 810A409G | Twist-On | 59 | 121 |
| 810P209A | Push-On | 6 | 122 |
| 810P209G | Push-On | 59 | 122 |
| 810PE209A | Push-EZ™ Plug with LIFT® Technology | 6 | 126A |
| 810PE209G | Push-EZ™ Plug with LIFT® Technology | 59 | 126A |
| 816B519 | Male Bulkhead Receptacle. 3/8-32 THD I.D. | Any | 130A |
| 826B519 | Bulkhead Jack, Solder Tab | Any | 123 |
| 832A519N | Inline Female/Female W/Nut & Washer | N/A | 124 |
| 830A509 | Inline, Male/Male | N/A | 125 |
| 831B509 | Inline Female/Male Push-On | N/A | 125A |
| 832A519 | Inline Female/Female | N/A | 126 |
| 843A509 | "T" Adapter, Female/Male/Female | N/A | 127 |
| 845A509 | "T" Adapter, Female/Female/Female | N/A | 128 |
| 851A509 | Right Angle Adapter, Male/Female | N/A | 129 |
| F0884 | 75 Ohm Male Terminator | N/A | 130 |
| 861A509 | PC Board Jack, Vertical | N/A | 131 |
| 861V509E | V-Bite™ Edge Mount PC Jack | N/A | 134V |
| 861V509R | V-Bite™ Reflow Type w/TFE Insulator | N/A | 134V |
| 864B509 | PC Board Jack, Right Angle, Long | N/A | 132 |



New! LIFT® Technology (Low Insertion Force Termination)

Fig. 126A



40 lb. Retention.

The Push-EZ™ connector installs by simply stripping the cable and inserting it into the connector. That's it.

Patented

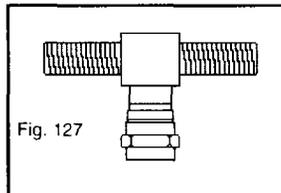


Fig. 127

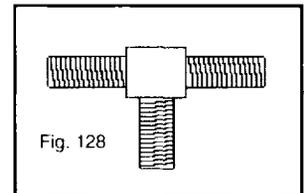


Fig. 128

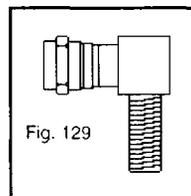


Fig. 129

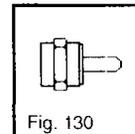


Fig. 130

This new item acts as a jack & allows for a replaceable female end by using a 832A519 adapter.

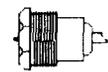


Fig. 130A

3/8" - 32 Internal Thd.
1/2" External Thd

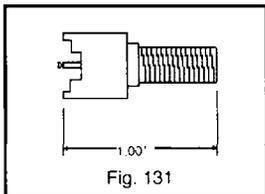


Fig. 131

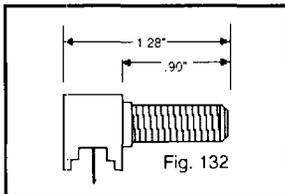


Fig. 132

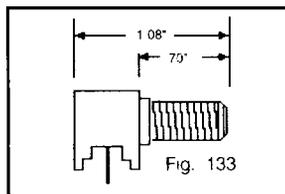


Fig. 133

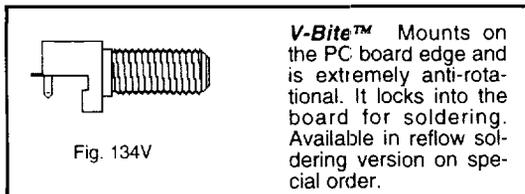
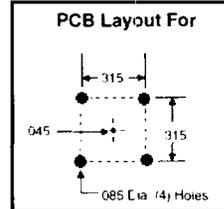
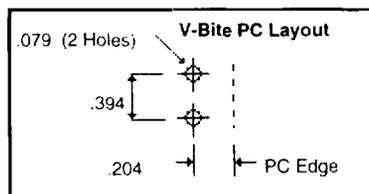


Fig. 134V

V-Bite™ Mounts on the PC board edge and is extremely anti-rotational. It locks into the board for soldering. Available in reflow soldering version on special order.



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