



## 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 cable sizes. **NOTE: See V-Bite 861V509ER6 -40dB @ 2.3GHz**

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 (see below 861V509ER6 to 3GHz)
VSWR	1.5 Max.
Working Voltage (At Sea level)	500V rms
Insulation Resistance	5000 Megohm Min.
Contact Resistance	3 mW 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

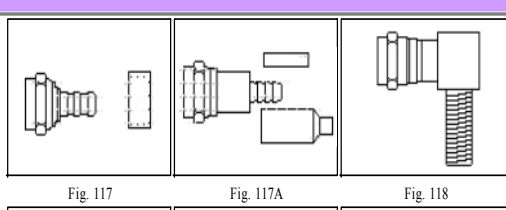
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## "F" Connectors

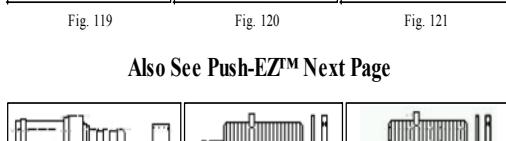
### Plugs, Jacks, Adapters

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.

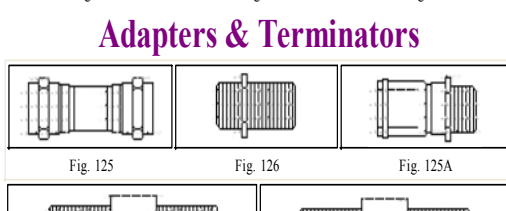
Part Number	Description	RG/U Cable	Fig. No.
810A209A	2 Piece Crimp Plug, Short Ferrule	6	117
810A209D	2 Piece Crimp Plug, Short Ferrule	11	117
810A209G	2 Piece Crimp Plug, Short Ferrule	59	117
810B209G	2 Piece Crimp Plug, Long Ferrule	59	118
810D209A	2 Piece Crimp Plug, Short Ferrule	6	117
810A209MV	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
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



Also See Push-EZ™ Next Page



### Adapters & Terminators



This recessed male acts as a jack & allows for a replaceable female end by using a 832A519 adapter. Also, this can be used to accommodate any adapter with a female F interface on one side. The other end can be BNC, TNC, or any style available. (See adapter pages)

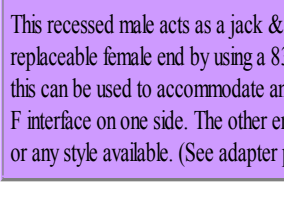
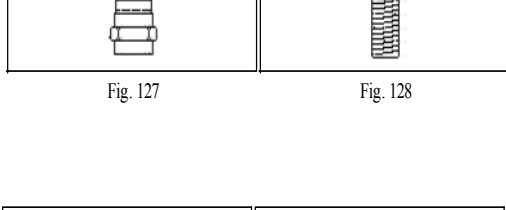
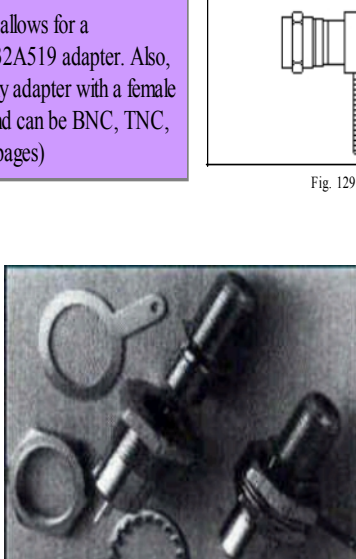


Fig. 130A2

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



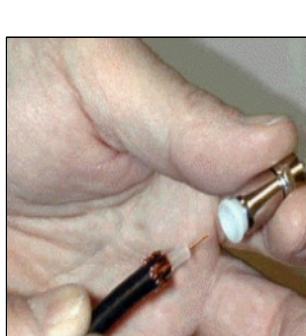
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## Push EZ™ "F" Plugs With LIFT™

Bomar's exclusive LIFT® Technology (Low Insertion Force Termination) is used in the patented Push-EZ™ connector. It installs by simply stripping the cable and inserting it into the connector. That's it.

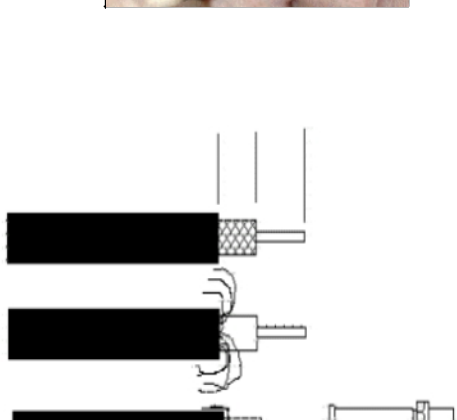
And it will not pull out.

**No crimp tooling required.**



Part Number	Description	RG/U Cable	Body Plating
810PE209A	Push-EZ™ Plug with LIFT® Technology	6	Nickel
810PE209G	Push-EZ™ Plug with LIFT® Technology	59	Nickel
810PE205A	Push-EZ™ Plug with LIFT® Technology	6	Gold
810PE205G	Push-EZ™ Plug with LIFT® Technology	59	Gold

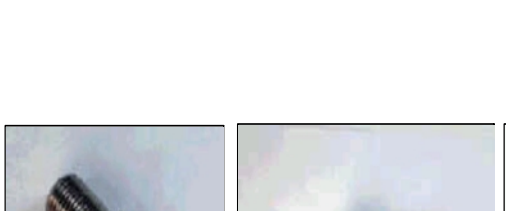
RoHS compliant [REQUEST QUOTE](#) [REQUEST DRAWING](#)



## PC Board Connectors

Part Number	Description	RG/U Cable	Fig. No.
861A509	PC Board Jack, Vertical	N/A	131
861V509E	V-Bite™ Edge Mount PC Jack	N/A	131V
861V509ER	V-Bite™ Reflow Type w/ TFE Insulator RG59	N/A	131V
861V509ER6	V-Bite™ Reflow Type w/ TFE Insulator RG6/59 (3GHz)	N/A	131V
861VH509ER6	V-Bite™ Reflow Type w/ TFE Insulator RG6/59 (3GHz)	N/A	131V
864B509	PC Board Jack, Right Angle, Long	N/A	132
864B509HF	PC Board Jack, Right Angle, Long (3GHz)	N/A	132
864B509S	PC Board Jack, Right Angle, Short	N/A	133
866B509	PC Board Male, Right Angle The Eliminator™	N/A	136B

RoHS compliant reflow or wave solder only [REQUEST QUOTE](#) [REQUEST DRAWING](#) RoHS compliant wave solder



### The V-Bite™

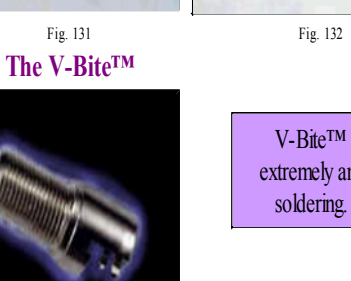


Fig. 131V

V-Bite™ Mounts on the PC edge and is extremely anti-rotational. It is soldering. Available in reflow

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.

### PCB Layout 864B Series



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