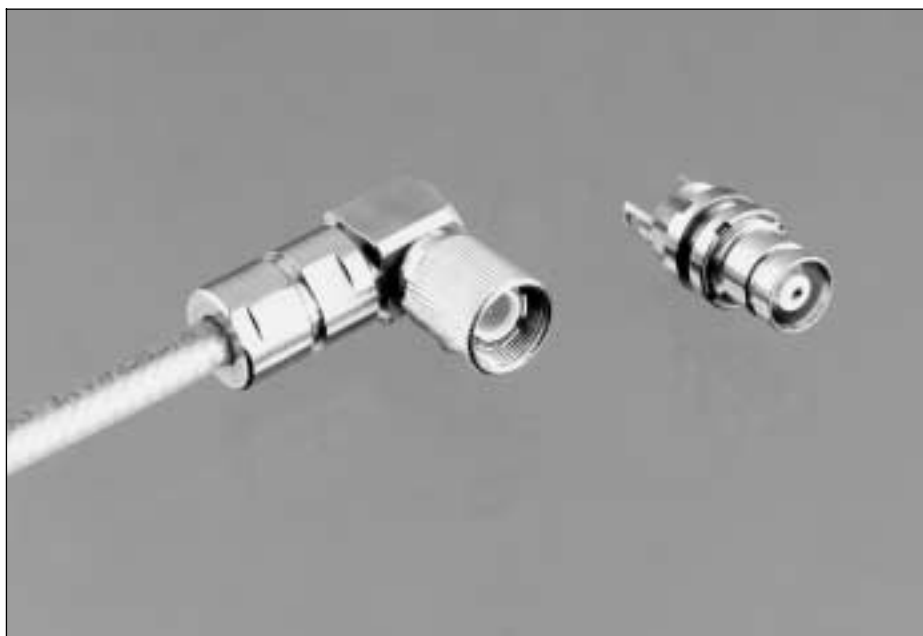


Introduction

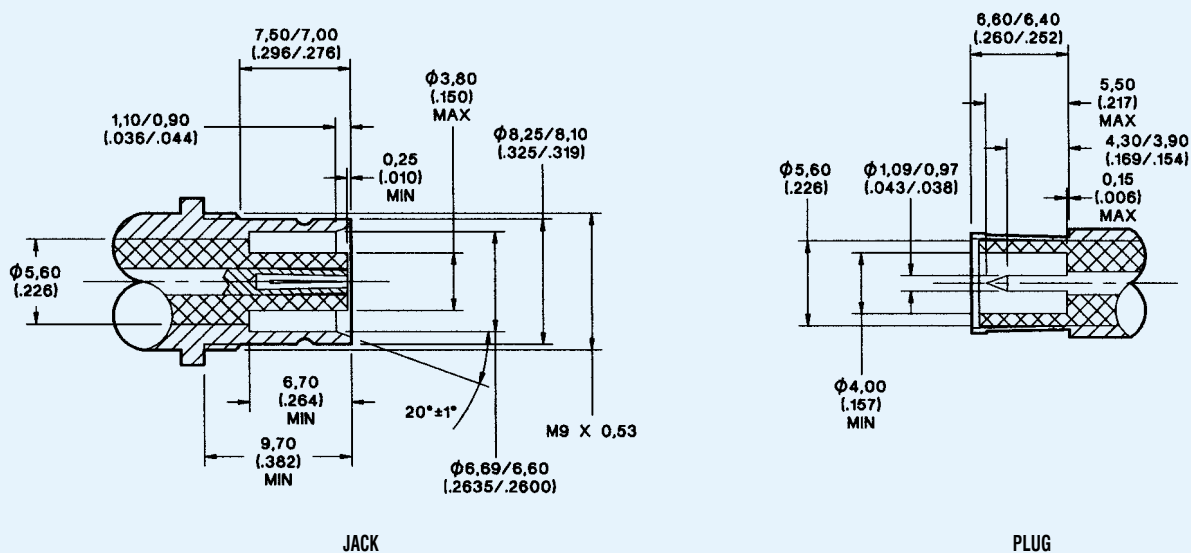
The ITT Cannon range of 1.6/5.6 Connectors are suitable for use in 75 ohm communication systems. These connectors have become the recognised standard in telecommunication systems in many parts of the world.

Designed to meet the requirements of DIN 47295, CECC 22240 and IEC 169-13, these connectors feature screw couplings to ensure mating integrity and snap coupling for ease of connection and disconnection (New Push-Pull coupling will be introduced in 1996).

The range of parts shown in this publication includes plug and jack connectors for a variety of cables, together with PCB styles and U links. Other cable types and connector styles may be available on request.



Mating Interfaces



Specifications

ELECTRICAL	Impedance	75 Ω nominal
	Frequency Range	0 - 1 GHz
	Voltage Rating *	At Sea Level = 330 Vrms
	Insulation Resistance	10 GΩ minimum
	Contact Resistance	Inner contact = 4 mΩ maximum Outer contact = 2 mΩ maximum
	Reflection Coefficient *	With f = 0.1 GHz = 0.02 maximum With f = 0.1 – 0.5 GHz = 0.04 maximum With f = 0.5 – 1.0 GHz = 0.10 maximum
MECHANICAL		
	Withdrawal force inner female contact	0.5 N (0.11 lbs.) minimum
	Withdrawal force inner male contact	1.7 N (0.38 lbs.) minimum
	Insertion force between jacks and plugs	Screw types: 12 N (2.7 lbs.) maximum. Push-pull type: 20 N (4.5 lbs.) maximum
	Withdrawal force between jacks and plugs	Screw types: 22 N (4.9 lbs.) minimum. Push-pull type: 20 N (4.5 lbs.) maximum
	Materials	Bodies and nuts: Brass. Inner male contact: Brass. Inner female contact and outer male contact: Beryllium copper. Insulators: PTFE. Crimp ferrules: Annealed copper alloy.
	Finish/Plating	Contact surfaces: Gold over nickel. Female bodies: Gold over nickel. Male bodies: Nickel or silver. Nuts and crimp ferrules: Nickel
ENVIRONMENTAL GENERAL	Temperature Rating	–40° C to 85° C
	Connector Durability	500 matings minimum
	Standards	CECC 22240, DIN 47295, IEC 169-13

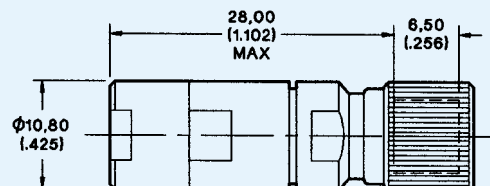
* Guideline value only– will depend on cable and connector type

Cable Plugs

OTHER CABLE TYPES AVAILABLE ON REQUEST

**Straight Clamp Plug
Screw Coupling**

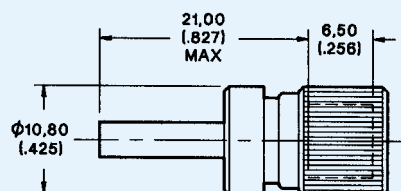
Part Number	Cable Numbers
F50-A07-3002A90	2YCCY 0.4/2.5, 2YC(MS)CY 0.4/2.5 ST121
F50-A07-3003A90	2YCY 0.7/4.4 RG59B/U, ST120, ST214



Assembly Instruction BBAI-1244 (Apply ITT Cannon Sales Dept.)

**Straight Crimp Plug
Screw Coupling**

Part Number	Cable Numbers
F50-A24-3002A90	2YCCY 0.4/2.5
F50-A24-3003A90	2YCY 0.7/4.4
F50-A24-3033A90	BT2003
F50-A24-3035A90	BT3002, TZC75024

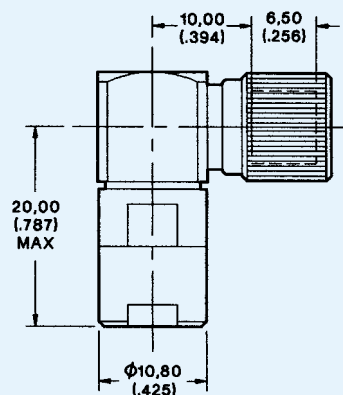
**Assembly Instructions**

F50-A24-3002A90	BBAI-1245
F50-A24-3003A90	BBAI-1246
F50-A24-3033A90	BBAI-1245
F50-A24-3035A90	BBAI-1246

(Apply ITT Cannon Sales Dept.)

**Right Angle Clamp Plug
Screw Coupling**

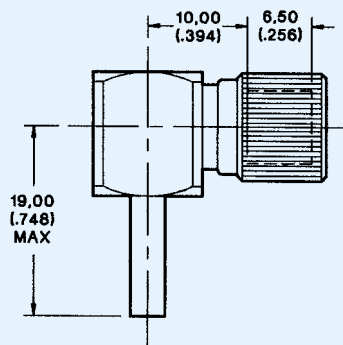
Part Number	Cable Numbers
F50-A11-3002A90	2YCCY 0.4/2.5, 2YC(MS)CY 0.4/2.5 ST121
F50-A11-3003A90	2YCY 0.7/4.4 RG59B/U, ST120, ST214



Assembly Instruction BBAI-1231 (Apply ITT Cannon Sales Dept.)

**Right Angle Crimp Plug
Screw Coupling**

Part Number	Cable Numbers
F50-A28-3002A90	2YCCY 0.4/2.5
F50-A28-3003A90	2YCY 0.7/4.4
F50-A28-3033A90	BT2003
F50-A28-3035A90	BT3002, TZC75024

**Assembly Instructions**

F50-A28-3002A90	BBAI-1247
F50-A28-3003A90	BBAI-1248
F50-A28-3033A90	BBAI-1247
F50-A28-3035A90	BBAI-1248

(Apply ITT Cannon Sales Dept.)

Cable Jacks

Straight Bulkhead Clamp Jack
All Couplings

Part Number	Cable Numbers
F50-A10-3002A90	2YCCY 0.4/2.5, 2YC(MS)CY 0.4/2.5 ST121
F50-A10-3003A90	2YCY 0.7/4.4 RG59B/U, ST120, ST214

Straight Bulkhead Crimp Jack
All Couplings

Part Number	Cable Numbers
F50-A27-3002A90	2YCCY 0.4/2.5
F50-A27-3003A90	2YCY 0.7/4.4
F50-A27-3033A90	BT2003
F50-A27-3035A90	BT3002, TZC75024

Assembly Instructions

F50-A27-3002A90	BBAI-1245
F50-A27-3003A90	BBAI-1246
F50-A27-3033A90	BBAI-1245
F50-A27-3035A90	BBAI-1246

(Apply ITT Cannon Sales Dept.)

Right Angle Bulkhead Clamp Jack
All Couplings

Part Number	Cable Numbers
F50-A12-3002A90	2YCCY 0.4/2.5, 2YC(MS)CY 0.4/2.5 ST121
F50-A12-3003A90	2YCY 0.7/4.4 RG59B/U, ST120, ST214
F50-A12-3033A90	BT2003
F50-A12-3035A90	BT3002, TZC75024
F50-A12-3045A90	2.5C-2V

Right Angle Bulkhead Crimp Jack
All Couplings

Part Number	Cable Numbers
F50-A30-3002A90	2YCCY 0.4/2.5
F50-A30-3003A90	2YCY 0.7/4.4
F50-A30-3033A90	BT2003
F50-A30-3035A90	BT3002, TZC75024

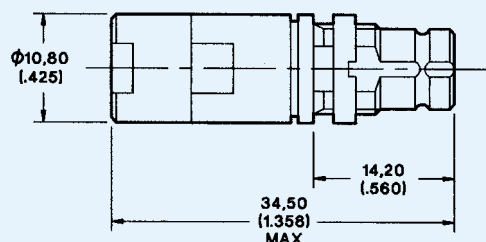
Assembly Instructions

F50-A30-3002A90	BBAI-1247
F50-A30-3003A90	BBAI-1248
F50-A30-3033A90	BBAI-1247
F50-A30-3035A90	BBAI-1248

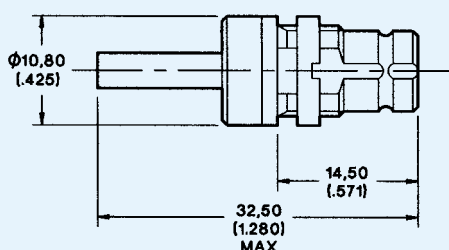
(Apply ITT Cannon Sales Dept.)

* Apply ITT Cannon Sales Department

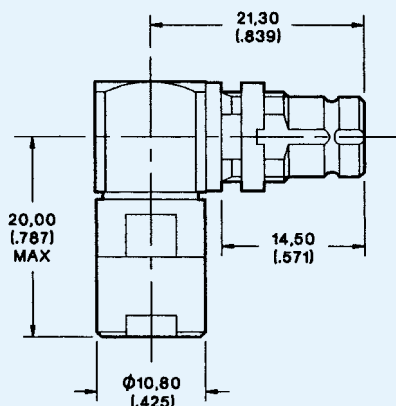
OTHER CABLE TYPES AVAILABLE ON REQUEST



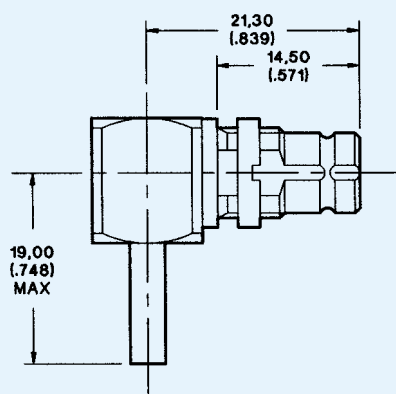
Mounting Plan BB (Page 109). Maximum Panel Thickness 2,00 (.078). Assembly Instruction BBAI-1244*



Mounting Plan BB (Page 109). Maximum Panel Thickness 2,00 (.078)



Mounting Plan BB (Page 109). Maximum Panel Thickness 2,00 (.078). Assembly Instruction BBAI-1231*

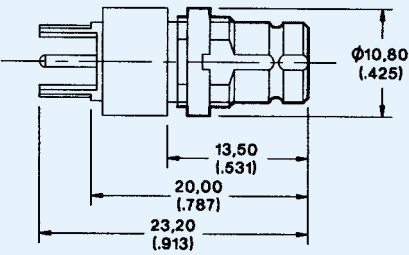


Mounting Plan BB (Page 109). Maximum Panel Thickness 2,00 (.078)

Printed Circuit Board Connectors

Straight Panel Jack
All Couplings

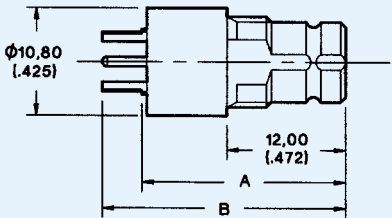
Part Number
F50-A51-9001A9A



Mounting Plan P & E (Page 108). Maximum Panel Thickness 1,50 (.059)

Straight Jack
All Couplings

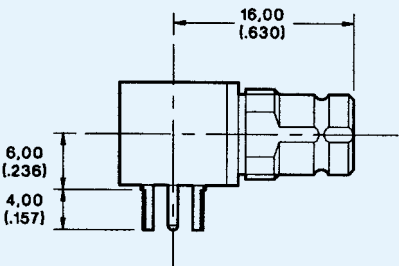
Part Number	A	B
F50-A51-9002A9A	20,80 (.818)	25,00 (.984)
F50-A51-9003A9A	21,50 (.846)	28,50 (1.122)



Mounting Plan B (Page 108)

Right Angle Jack
All Couplings

Part Number
F50-A53-9001A9A



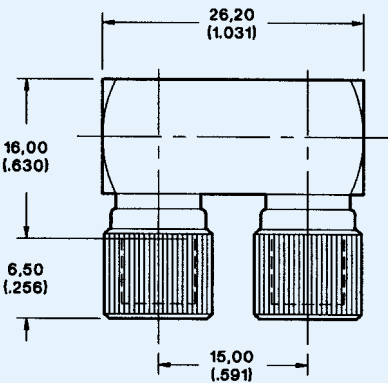
Mounting Plan B (Page 108)

Coaxial Links

OTHER SIZES AVAILABLE ON REQUEST

U Link
Screw Coupling

Part Number
F50-A81-9001A90



1.6/5.6

U Link with Test Port

Part Number
F50-A81-9011A90

