

1.6/5.6

The Cannon range of 1.6/5.6 connectors are suitable for use in 75 ohm communication systems and have become the recognized standard in telecommunications in many parts of the world.

Designed around the requirements of DIN 47295, CECC 22240 and IEC 169-13, these connectors are designed for field installation and feature threaded couplings to ensure mating integrity and a snap-on interface for ease of connection.

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



Applications

- Switching Equipment • DSX Cross Connects • Base Stations • Routers • Wireless • Telecom • LAN Equipment

Features and Benefits

Threaded coupling mechanism to ensure secure connection and snap-on interface for ease of engagement and separation

Three-part construction with crimp inner contact and outer ferrule (no soldering required)

Designed for the most commonly used telecom cables in North America and Europe

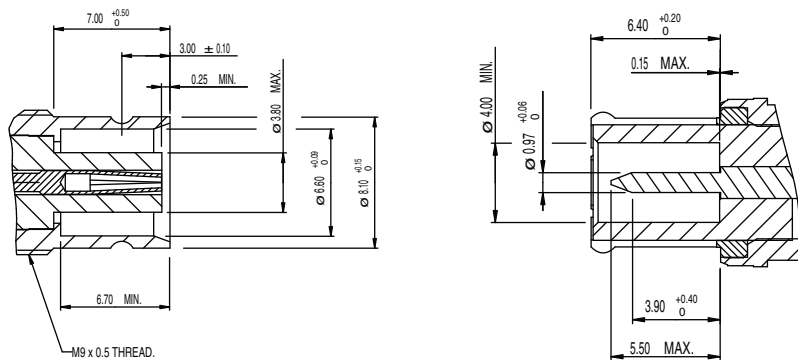
Most installations require no special tooling

Designed for field installation

RoHS Compliant Part Numbers



Mating Interfaces



Dimensions shown in mm (inch)
Specifications and dimensions subject to change

www.ittcannon.com



Cannon 75 Ohm Connectors

DIN1.6/5.6

ELECTRICAL	Impedance	75 Ω nominal	
	Frequency Range	0-1 GHz	
	Voltage Rating*	At sea level =330 Vrms	
	Insulation Resistance	10G Ω minimum	
	Contact Resistance	Inner contact = 4 m Ω maximum Outer contact: 2 m Ω 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	0.5N (0.11 lbs) minimum		
Withdrawal force inner male contact	1.7N (0.38 lbs) minimum		
Insertion force between jacks and plugs	Screw types: 12N (2.7 lbs) maximum. Push-pull type: 20N (4.5 lbs) maximum		
Withdrawal force between jacks and plugs	Screw types: 22N (4.9 lbs) minimum. Push-pull type: 20N (4.5 lbs) maximum		
	Materials	Body and nuts: Brass. Inner male contact: Brass Inner ferrule 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	Temperature	-40°C to 85°C	
GENERAL	Connector Durability	500 matings minimum	
	Standards	CECC 22240, DIN 47295, IEC 169-13	

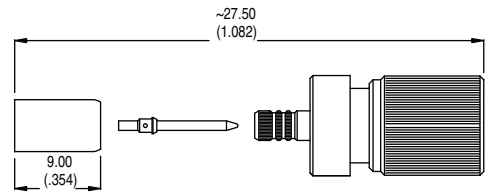
*Guideline value only - will depend on cable and connector types



DIN1.6/5.6

1.6/5.6 Straight Plug

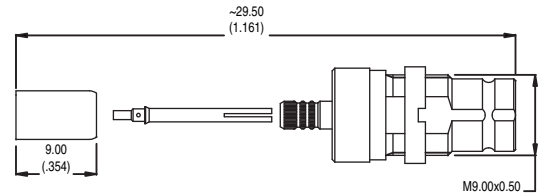
Part Number	Cable Type
D50-A24-3033GDA	BT2003
D50-A24-3035GDA	BT3002/TZC75024
D50-A24-3037GDA	RA7000



Assembly Instructions: BBAI 1245

1.6/5.6 Straight Bulkhead Jack

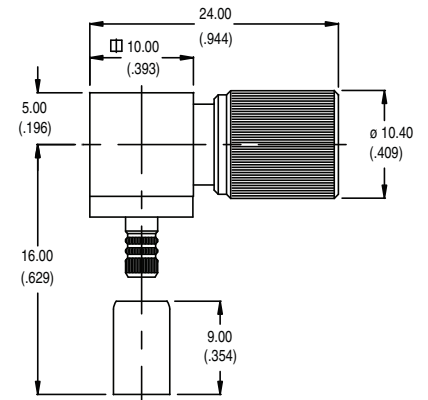
D50-A27-3033GEA	BT2003
D50-A27-3035GEA	BT3002/TZC75024
D50-A27-3037GEA	RA7000



Assembly Instructions: BBAI 1245

1.6/5.6 Right Angle Plug

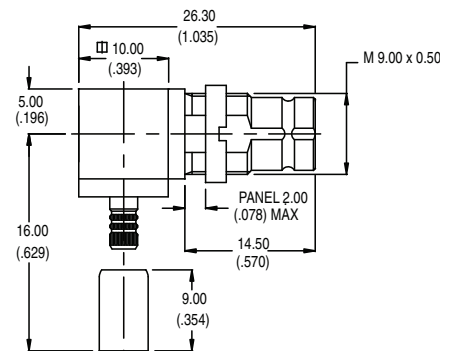
D50-A28-3133GKA	BT2003
D50-A28-3135GKA	BT3002/TZC75024
D50-A28-3137GKA	RA7000



Assembly Instructions: BBAI 1247

1.6/5.6 Right Angle Bulkhead Jack

D50-A30-3233GBA	BT2003
D50-A30-3235GBA	BT3002/TZC75024
D50-A30-3237GBA	RA7000



Assembly Instructions: BBAI 1247

Contact Customer Service for other cable types