

# Cinch



## Cinch is proud to introduce our new RF coax connector line.

Cinch introduces a full-line of RF/Coax connectors to meet the exacting requirements of today's designs where high frequency and low impedance are of primary importance. For use in a wide array of applications in diverse markets such as transportation, broadband, telecommunications, instrumentation and aerospace electronics, Cinch RF connectors are cost-effective products that meet industry standards for performance and quality. Each Cinch RF series is offered in PCB board mount and cable connector configurations with design options to meet each application's specific requirements.



## BNC

The most popular RF style for applications with frequencies under 1 GHz. BNC's are suitable for applications from DC to 4 GHz but can operate satisfactorily up to 11 GHz. Widely used in data networks and telecom equipment for video and RF applications.

## DIN 1.0/2.3

RF style with compact design for use where space is at a premium. DIN 1.0/2.3 connectors are most suitable for applications from 0 - 4 GHz but reliably operate up to 10 GHz. Push-pull mechanism allows for fast, reliable mate/unmate. Used in wireless telecom applications.

## MCX

Favorable where size, performance, and ease of assembly are important considerations. Micro-miniature connectors rated for operation up to 6 GHz. Offers a 30% space reduction over similar SMB types. Typical applications include GPS and wireless communications.

## MMCX

Snap-on mating mechanism provides excellent electrical performance and allows 360 degrees rotation of mated pairs. MMCX micro-miniature connectors are rated for operation up to 6 GHz. Applications include GPS, wireless, test equipment, and consumer electronics.

## SMA

Value connector balancing cost with size and performance. Designed for applications up to 12.4 GHz but performance can be extended to 18 GHz with semi-rigid cabling. Provides low VSWR and minimum attenuation. Common application is in microwave systems.

## SMB

Small size and ease of mate/unmate make SMB's ideal where packaging density is a consideration. Designed for applications up to 4 GHz. SMB's snap-on coupling provides quick connect/disconnect. Applications include test equipment, GPS, and telecom gear.

## N

Threaded coupling assures mating where shock and vibration are considerations. N's are medium sized connectors originally designed for military systems and are suitable up to 11 GHz. Typical uses are aerospace, broadcast, and audio/video applications.

## TNC

Similar to BNC's except for the threaded mating coupling. TNC's are suitable for extreme conditions where shock and vibration are concerned. Designed for applications to 11 GHz. TNC's are used in cellular antenna applications, aerospace, and medical equipment.

## F

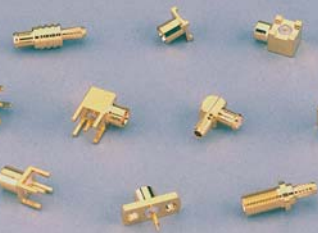
Cinch F connectors are mechanically reliable and provide efficient, low-loss electrical performance. Suitable up to 1.5 GHz with extremely low VSWR, BBF's contribute to the higher levels of operation for network and customer premises products.

**BNC**

Series	Type	Attachment	Catalog P/N
BNC 50 Ohm	Jack, straight, 4 legs	PCB Mount	BNC50-1301
	Jack, straight, 3 legs	PCB Mount	BNC50-1302
	Jack, right angle	PCB Mount	BNC50-1401
	Plug, straight, crimp	RG-58, 58A, 141A	BNC50-4101
	Plug, straight, crimp	RG-142 B/U	BNC50-4102
	Plug, straight, crimp	RG-174, 188A, 316	BNC50-4104
	Plug, right angle, crimp	RG-174, 188A, 316	BNC50-4201
	Jack, 4 hole flange	Solder Pot	BNC50-7601
	Jack, bulkhead	RG-58, 58A, 141A	BNC50-8201
BNC 75 Ohm	Jack, straight, plastic body	PCB Mount	BNC75-1301
	Jack, right angle, low profile	PCB Mount	BNC75-1401
	Jack, right angle, high profile	PCB Mount	BNC75-1402
	Jack, right angle, plastic body	PCB Mount	BNC75-1403
	Jack, str. pressfit, center contact	PCB Mount	BNC75-3301
	Jack, str. pressfit, compliant posts	PCB Mount	BNC75-3302
	Plug, straight, crimp	RG-179B, 187A	BNC75-4101
	Plug, straight	ATT 735A	BNC75-4102
	Plug, right angle, crimp	RG-179B, 187A	BNC75-4201
	Jack, bulkhead	RG-179B, 187A	BNC75-8201

**DIN 1.0/2.3**

Series	Type	Attachment	Catalog P/N
DIN 1.0/2.3 50 Ohm	Jack, straight	PCB Mount	DIN50-1301
	Plug, straight	RG-58, 58A, 141A	DIN50-4101
	Plug, straight	RG-174, 188A, 316	DIN50-4102
	Plug, straight	RD-316	DIN50-4103
	Plug, right angle	RG-58, 58A, 141A	DIN50-4201
	Plug, right angle	RG-174, 188A, 316	DIN50-4202
	Plug, right angle	RD-316	DIN50-4203
	Jack, right angle	RG-174, 188A, 316	DIN50-4401
	Jack, bulkhead	PCB Mount	DIN50-7201
	Jack, bulkhead, right angle	PCB Mount	DIN50-7801
	Jack, bulkhead	RG-174, 188A, 316	DIN50-8201

**MCX**

Series	Type	Attachment	Catalog P/N
MCX 50 Ohm	Plug, straight	PCB Mount	MCX50-1101
	Jack, straight	PCB Mount	MCX50-1301
	Jack, right angle	PCB Mount	MCX50-1401
	Jack, straight	Surface Mount	MCX50-2301
	Jack, right angle	Surface Mount	MCX50-2401
	Plug, straight	RG-174, 188A, 316	MCX50-4101
	Plug, right angle	RG-174, 188A, 316	MCX50-4201
	Jack, 2 hole flange	Solder Pot	MCX50-7401
	Jack, bulkhead	RG-174, 188A, 316	MCX50-8201
MCX 75 Ohm	Jack, straight	PCB Mount	MCX75-1301
	Jack, right angle	PCB Mount	MCX75-1401

**MMCX**

Series	Type	Attachment	Catalog P/N
MMCX 50 Ohm	Plug, straight	PCB Mount	MMCX50-1101
	Jack, straight	PCB Mount	MMCX50-1301
	Jack, right angle	PCB Mount	MMCX50-1401
	Jack, straight	Surface Mount	MMCX50-2301
	Plug, straight	RG-174, 188A, 316	MMCX50-4101
	Plug, right angle	RG-178, 196	MMCX50-4202
	Jack, straight	RG-174, 188A, 316	MMCX50-4301
	Jack, bulkhead, rear mount	RG-174, 188A, 316	MMCX50-8201

**SMA**



**SMA**

Series	Type	Attachment	Catalog P/N
SMA 50 Ohm	Jack, straight	PCB Mount	SMA50-1301
	Jack, right angle	PCB Mount	SMA50-1401
	Jack, edgemount	Edgemount	SMA50-1501
	Plug, straight	RG-174, 188A, 316	SMA50-4101
	Plug, straight	RG-58, 58A, 141A	SMA50-4102
	Plug, straight	RG-142B/U	SMA50-4103
	Plug, straight	RD-316U	SMA50-4104
	Plug, right angle	RG-174, 188A, 316	SMA50-4201
	Plug, right angle	RG-58, 58A, 141A	SMA50-4202
	Plug, right angle	RD-316U	SMA50-4203
	Jack, 2 hole flange	Solder Pot	SMA50-7401
	Jack, straight bulkhead	RG-174, 188A, 316	SMA50-8201



**SMB**

Series	Type	Attachment	Catalog P/N
SMB 50 Ohm	Plug, straight	PCB Mount	SMB50-1101
	Jack, straight	PCB Mount	SMB50-1301
	Jack, right angle	PCB Mount	SMB50-1401
	Plug, straight	RG-174, 188A, 316	SMB50-4101
	Plug, right angle	RG-174, 188A, 316	SMB50-4201
	Jack, bulkhead	Solder Pot	SMB50-7201
	Jack, 2 hole flange	Solder Pot	SMB50-7401
	Jack, 4 hole flange	Solder Pot	SMB50-7601



**N**

Series	Type	Attachment	Catalog P/N
N 50 Ohm	Plug, straight, crimp	RG-58, 58A, 141A	N50-4101
	Jack, straight, clamp	RG-58, 58A, 141A	N50-5101
	Plug, right angle, clamp	RG-142B/U	N50-5201
	Plug, 4 hole flange	Panel Mount	N50-7501
	Jack, 4 hole flange	Solder Pot	N50-7601
	Jack, 4 hole flange	Tab Contact	N50-7602
	Jack, 4 hole flange	Panel Mount	N50-7603
	Jack, bulkhead	RG-142B/U	N50-8201
	Jack, 4 hole flange	RG-142B/U	N50-8601



**TNC**

Series	Type	Attachment	Catalog P/N
TNC 50 Ohm	Jack, right angle	PCB Mount	TNC50-1401
	Plug, straight, crimp	RG-58, 58A, 141A	TNC50-4101
	Plug, right angle, crimp	RG-58, 58A, 141A	TNC50-4201
	Jack, straight, crimp	RG-174, 188A, 316	TNC50-4301
	Plug, right angle, clamp	RG-142B/U	TNC50-5201
	Jack, straight, clamp	RG-142B/U	TNC50-5301
	Jack, bulkhead, crimp	RG-58, 58A, 141A	TNC50-8201
	Jack, bulkhead, crimp	RG-174, 188A, 316	TNC50-8202
	Jack, bulkhead, clamp	RG-142B/U	TNC50-8203



**F**

Series	Type	Attachment	Catalog P/N
F 75 Ohm	Jack, right angle, 2 flats on barrel	PCB Mount	BBF75-1401
	Jack, right angle, PCB grip posts, 1 flat on barrel	PCB Mount	BBF75-1402
	Jack - Jack Adapter, Long	Adapter	BBF75-9301
	Jack - Jack Adapter, Short	Adapter	BBF75-9302



## Proven Excellence

For over 70 years, Cinch has been a reliable supplier of a variety of quality connector products to various industries. We are a multi-national manufacturer with manufacturing facilities in the U.S. and Mexico.

Cinch has applied its extensive expertise in interconnection technology to engineer and manufacture connectors of various complexities using state-of-the-art technology and tooling. Mechanical design is accomplished using Pro/E® 3D solid modeling and AutoCAD® supported by nonlinear and linear Finite Element Analysis, and Mold Flow software.

Our engineers utilize in-house capabilities in high frequency interconnect simulation, Spice model generation and high frequency testing to develop the optimum product.

All products are validated in Cinch's First Article, mechanical, electrical, and environmental test facilities ensuring the finished products meet our customers' most stringent specifications.

Simply, your connectors are manufactured in state-of-the-art facilities that are committed to customer satisfaction and continuous improvement.

# Cinch

1700 Finley Road  
Lombard, IL 60148

Phone: 630.705.6000  
1.800.323.9612  
Fax: 630.705.6060  
E-mail: [info@cinch.com](mailto:info@cinch.com)  
[www.cinch.com](http://www.cinch.com)

© 2004 Cinch Connectors Inc.  
RF-602/02.04

## Cable Assemblies

Cinch has been a trusted supplier of coax cable assemblies for over ten years. With our interconnect expertise and cost effective world class manufacturing, Cinch RF can solve your customer's most demanding applications at a competitive price.



## For More Information

Contact the Cinch RF Marketing department at 1.800.323.9612 or e-mail directly to [rf@cinch.com](mailto:rf@cinch.com)