



## Introducing ZDC RF Coax Connector Series 50 & 75 Ohm

# ZDC RF Coax Connector Series 50 & 75 Ohm

## KEY FEATURES

Bayonet Coupling for  
rapid connectivity

Threaded Coupling to  
provide secure termination

Multiple PCB mounting  
options and styles

## INTRODUCTION

The RoHS compliant ZDC Coax Connector series from Tyco Electronics offers quality cost effective solutions for commercial applications by the use of precision die-cast components, and thermoplastic dielectrics. This brochure showcases some of the popular BNC interface part numbers in a variety of styles. The ZDC line also includes parts with TNC, UHF, M-UHF, F and SMA interface.

The connector interfaces are compatible with the requirements of MIL-C-39012 and MIL STD348A, and are therefore interchangeable with products manufactured to these specifications. Available in a range of cable mounted plugs and jacks, bulkhead and PCB sockets, the Tyco Electronics ZDC Coax Connector range offers a comprehensive choice of solutions for cost demanding applications. The crimp connectors utilize standard hexagonal crimp tools and die-sets avoiding costly retooling.

## DESCRIPTION

RoHS compliant coax crimp and PCB styles

Precision die-cast construction

Interface meets MIL STD348A

Available in plug, jack, socket and adaptor types

Standard hexagonal crimp hand tool and dies

Terminates to popular RG coax cables

## MECHANICAL

Operating temperature range -55°C to +85°C

Durability 50 cycles minimum

## APPLICATIONS

Instrumentation

Medical equipment

Industrial process and control

Transportation

CCTV monitoring



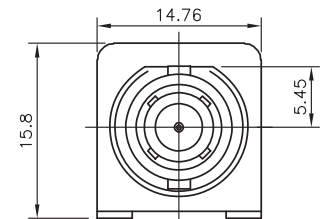
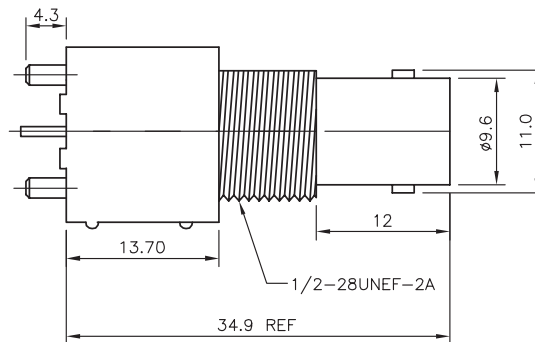
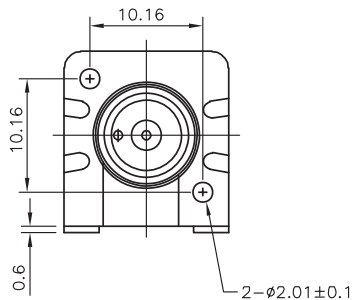
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## ELECTRICAL

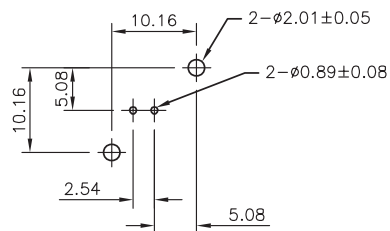
50 Ohm and 75 Ohm impedance  
DC - 4GHz frequency range

## MATERIALS

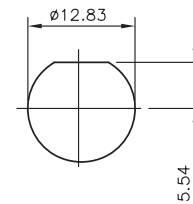
Nickel plated zinc die cast construction  
Gold plated center contact and thermoplastic dielectric



RECOMMENDED PCB LAYOUT  
WITH MOUNTING POSTS OR BOARD LOCKS



RECOMMENDED MOUNTING HOLE  
MAX PANEL THICKNESS: 5.5mm



## PRODUCT OFFERING & DIMENSIONS

### BNC Straight Plug Crimp

| TE Part Number | Ohms | Cable Group |
|----------------|------|-------------|
| 5-1634500-1    | 50   | RG174       |
| 5-1634500-2    | 50   | RG58        |
| 5-1634502-4    | 75   | RG179       |
| 5-1634502-2    | 75   | RG59        |



### BNC Straight Jack Crimp

| TE Part Number | Ohms | Cable Group |
|----------------|------|-------------|
| 5-1634511-1    | 50   | RG174       |
| 5-1634511-2    | 50   | RG58        |
| 5-1634514-1    | 75   | RG59        |



### BNC Bulkhead Jack Rear Mount

| TE Part Number | Ohms | Cable Group |
|----------------|------|-------------|
| 5-1634516-1    | 50   | RG58        |
| 5-1624516-3    | 75   | RG179       |
| 5-1634516-5    | 75   | RG59        |



### BNC Bulkhead Socket Front Mount

| TE Part Number | Ohms | Cable Group |
|----------------|------|-------------|
| 5-1634523-1    | 50   | -           |
| 5-1634523-2    | 75   | -           |



### BNC Bulkhead Socket Rear Mount

| TE Part Number | Ohms | Cable Group |
|----------------|------|-------------|
| 5-1634518-1    | 50   | -           |
| 5-1634518-3    | 75   | -           |



### BNC Insulated Bulkhead Socket

| TE Part Number | Ohms | Cable Group |
|----------------|------|-------------|
| 5-1634504-1    | 50   | -           |
| 5-1634504-2    | 75   | -           |



### BNC Elbow PCB Socket - Insulated\*

| TE Part Number | Ohms | Description       |
|----------------|------|-------------------|
| 1-1337542-0    | 50   | White Low Profile |
| 1-1337543-0    | 50   | White Std Profile |
| 1-1634613-0    | 50   | Black Low Profile |
| 1-1634612-0    | 50   | Black Std Profile |
| 1-1478031-0    | 75   | White Low Profile |
| 1-1478032-0    | 75   | White Std Profile |
| 1-1634624-0    | 75   | Black Low Profile |
| 1-1634622-0    | 75   | Black Std Profile |



### BNC Elbow PCB Socket - Metal\*

| TE Part Number | Ohms | Description       |
|----------------|------|-------------------|
| 1-1337494-0    | 50   | Metal Std Profile |
| 1-1634508-0    | 75   | Metal Std Profile |



### \*BNC PCB Accessories for Noted Series

| TE Part Number | Description |
|----------------|-------------|
| 1-1634817-0    | Lockwasher  |
| 1-1634816-0    | Hex Nut     |



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## PRODUCT OFFERING & DIMENSIONS

### BNC Straight PCB Socket - Insulated\*

| TE Part Number | Ohms | Description |
|----------------|------|-------------|
| 1-1337541-0    | 50   | White       |
| 1-1634505-0    | 50   | Black       |
| 1-1478033-0    | 75   | White       |
| 1-1634629-0    | 75   | Black       |



### BNC Straight PCB Socket - Metal

| TE Part Number | Ohms | Description |
|----------------|------|-------------|
| 5-1634503-1    | 50   | Metal       |
| 5-1634503-3    | 75   | Metal       |



### BNC Straight Adaptors

| TE Part Number | Ohms | Description |
|----------------|------|-------------|
| 5-1634534-1    | 50   | Jack - Jack |



### BNC T - Adaptors

| TE Part Number | Ohms | Description        |
|----------------|------|--------------------|
| 5-1634532-1    | 50   | Jack - Plug - Jack |



## TECHNICAL SPECIFICATIONS

|                                 |                           |
|---------------------------------|---------------------------|
| Nominal Impedance               | 50Ω and 75Ω               |
| Working Voltage                 | 500Vrms                   |
| Contact Resistance              | 1.5mΩ max                 |
| Insulation Resistance (initial) | 5000MΩ min                |
| Dielectric Withstand Voltage    | 1500Vrms (sea level)      |
| Frequency Range                 | 0-4GHz (50Ω) 0-2GHz (75Ω) |
| VSWR                            |                           |
| DC - 2GHz                       | Straight 1.15 max         |
| Durability (Cycles)             | 50                        |
| Temperature Range               | -55°C to +85°C            |
| Body Material                   | Zinc                      |
| Body Plating                    | Nickel                    |
| Male Contact Material           | Brass                     |
| Female Contact Material         | Phosphor Bronze           |
| Contact Plating                 | Gold                      |
| Insulation                      | Delrin or Polyethylene    |

## TERMINATION TOOLING

|           |             |
|-----------|-------------|
| Hand Tool | 9-1478240-0 |
| Die sets  | 9-147824X-0 |

For Tooling see customer drawings at [www.tycoelectronics.com](http://www.tycoelectronics.com)

## Technical Support

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