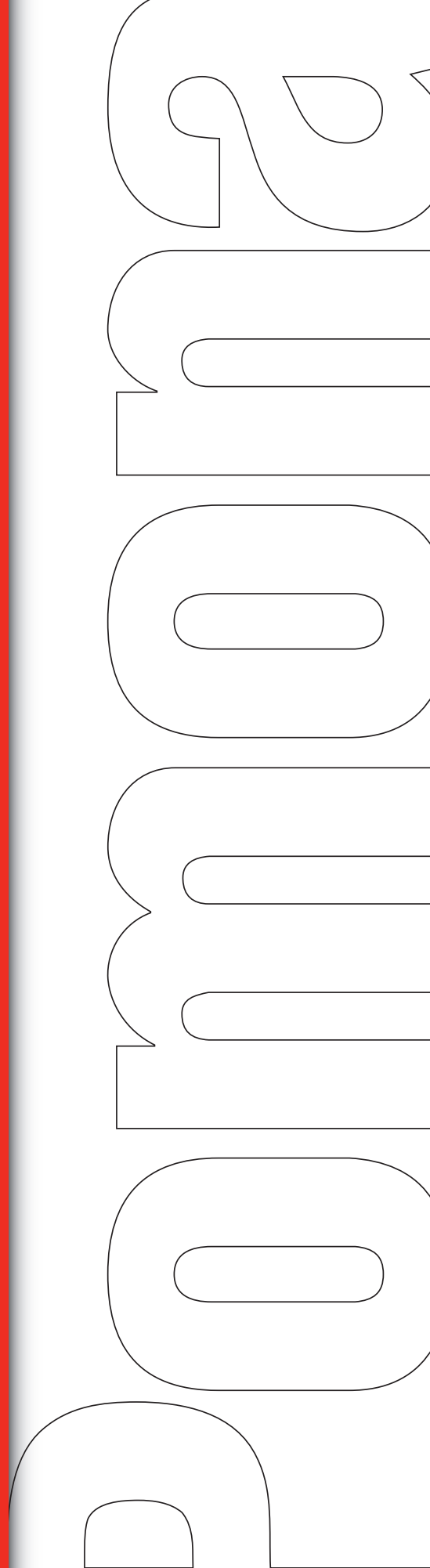


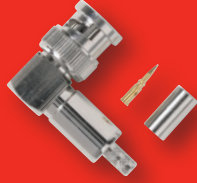
Pomona[®]

ELECTRONICS

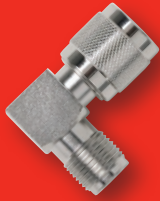
**New! Pomona expands
their selection of RF cable
assemblies and connectors**

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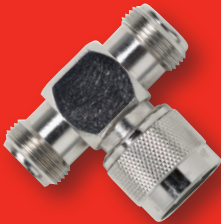




BNC



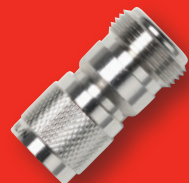
TNC



N Type



UHF



Between Series

Introducing New RF cable assemblies and connectors

RF cable assemblies and connectors are used for connection in communications, instrumentation, aerospace, and industrial applications where bandwidth and low signal loss are critical. As electronic products like cell phones and PDAs have become more compact, connectors to these products have also become smaller. Rather than using standard BNC cable assemblies, today's technicians need RF cable assemblies with smaller format connectors like SMA, SMB, MCX, and MMCX connector types.

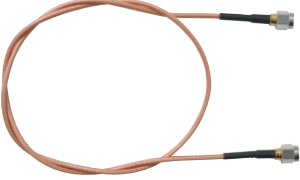

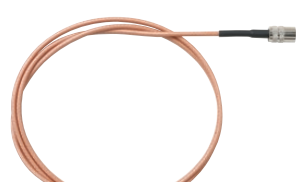
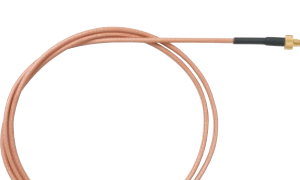
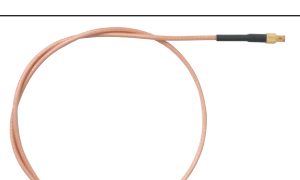
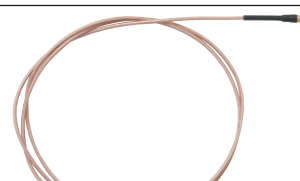
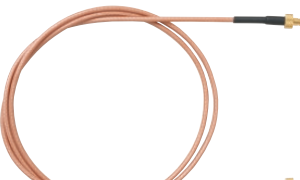
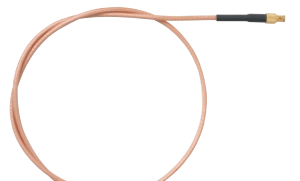
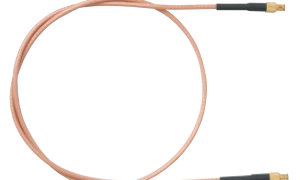
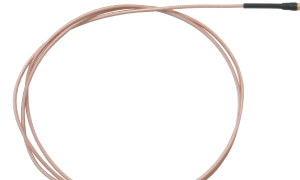
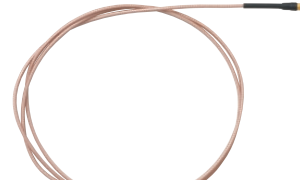
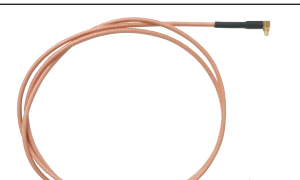


To meet this demand, Pomona is introducing a family of 23 new Pomona RF cable assemblies that include the smaller SMA, SMB, MCX, and MMCX connectors.

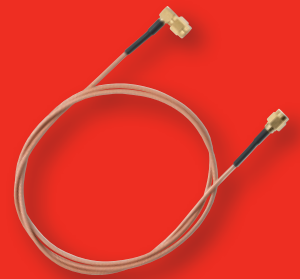
And with the demand for more popular RF connectors in the communications and instrumentation realms, Pomona is also expanding with 19 new RF connectors, such as BNC, TNC, N Type, and UHF connectors and adapters.

New connectors

| Connector type | Model number | Description | Assembly type | Impedance | Cable type |
|----------------|--------------|----------------------------------------------------|---------------|-----------|--------------------------------------|
| BNC | 73042 | BNC (M) Right-Angle | Crimp | 50 Ω | RG174, 188, 316 |
| | 73043 | BNC (M) | Crimp | 50 Ω | RG8, 9, 11, 213, 214 |
| | 73061 | BNC (M) Right-Angle | Crimp | 50 Ω | RG58, 141 |
| TNC | 73053 | TNC (F-M) Right-Angle Adapter | - | 50 Ω | - |
| | 73054 | TNC (M) Right-Angle | Crimp | 50 Ω | RG55, 142, 223, 400 |
| | 73056 | TNC (M) | Crimp | 50 Ω | RG58, 141 |
| | 73057 | TNC (M) | Crimp | 50 Ω | RG59, 62 |
| N Type | 73044 | N Type (F-M-F) Adapter | - | 50 Ω | - |
| | 73045 | N Type (F-F) Bulkhead Adapter, Hermetically Sealed | - | 50 Ω | - |
| | 73048 | N Type (M) Right-Angle | Clamp | 50 Ω | RG214, 225, 393 |
| | 73049 | N Type (M) Right-Angle | Crimp | 50 Ω | RG55, 142, 223 |
| | 73050 | N Type (M) | Crimp | 50 Ω | RG58, 141 |
| | 73051 | N Type (M) | Clamp | 50 Ω | RG8, 213 |
| | 73052 | N Type (M) | Crimp | 50 Ω | RG402 |
| | 73062 | N Type (M) | Clamp | 50 Ω | RG8, 9, 144, 165, 213, 214, 216, 225 |
| UHF | 73058 | UHF (F-F) Adapter | - | - | - |
| | 73059 | UHF (M) | Crimp | - | RG8, 9, 11, 63, 87A, 213, 214, 225 |
| Between Series | 73046 | N Type (F) to TNC (M) Adapter | - | 50 Ω | - |
| | 73047 | N Type (F) to UHF (M) Adapter | - | - | - |

New RF cable assemblies

| Type | Description | Electrical | | | | Materials | | |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------|------------|----------------------------|---------------------------------|-------------------------------------------|-----------------------------------------------------------------------------|-----------------------|
| | | Model # | Impedance | Frequency range | Cable type | Shell | Center contacts | Insulators |
| SMA |  SMA Plug to SMA Plug | 4846 | 50 Ω | DC - 4 GHz | RG58C/U RG178/U | Gold-plated machined brass | Plug: brass All contacts gold-plated | PTFE |
| |  SMA Plug to SMA Right-Angle Plug | 73069 | 50 Ω | DC - 4 GHz | RG316/U | Gold-plated machined brass | Plug: brass All contacts gold-plated | PTFE |
| |  SMA Plug to SMA Bulkhead Jack | 73070 | 50 Ω | DC - 3 GHz | RG58C/U RG316/U | Gold-plated machined brass | Plug: brass Jack: beryllium copper, All contacts gold-plated | PTFE |
| |  SMA Plug to Quick-Connect Plug | 73082 | 50 Ω | DC - 4 GHz | RG142B/U | Gold-plated, nickel-plated machined brass | Plug: brass All contacts gold-plated | PTFE |
| |  SMA Quick-Connect Plug to SMA Quick-Connect Plug | 73083 | 50 Ω | DC - 4 GHz | RG142B/U RG316/U | Nickel-plated brass | Plug: brass All contacts gold-plated | PTFE |
| |  SMA Right-Angle Plug to SMA Bulkhead Jack | 73071 | 50 Ω | DC - 4 GHz | RG142B/U RG316/U | Gold-plated machined brass | Plug: brass Jack: beryllium copper All contacts gold-plated | PTFE |
| SMB |  SMB Male to SMB Male | 73072 | 50 Ω, 75 Ω | DC - 3 GHz DC - 2 GHz | RG316/U RG179B/U | Gold-plated machined brass | Jack: brass, phosphor bronze All contacts gold-plated | PTFE, Silicone Rubber |
| |  SMB Right-Angle Male to SMB Right-Angle Male | 73073 | 50 Ω | DC - 3 GHz | RG316/U | Gold-plated machined brass | Jack: phosphor bronze All contacts gold-plated | PTFE |
| MCX |  MCX Plug to MCX Plug | 73067 73075 | 50 Ω, 75 Ω | DC - 3 GHz DC - 1.5 GHz | RG178B/U RG316/U RG179B/U | Gold-plated machined brass | Plug: phosphor bronze All contacts gold-plated | PTFE |
| |  MCX Right-Angle Plug to MCX Right-Angle Plug | 73068 | 50 Ω | DC - 3 GHz | RG316/U | Gold-plated machined brass | Plug: phosphor bronze All contacts gold-plated | PTFE |
| MMCX |  MMCX Plug to MMCX Plug | 73063 73077 | 50 Ω | DC - 3 GHz | RG178B/U RG316/U | Gold-plated machined brass | Plug: phosphor bronze All contacts gold-plated | PTFE |
| |  MMCX Plug to MMCX Right-Angle Plug | 73064 | 50 Ω | DC - 3 GHz | RG316/U | Gold-plated machined brass | Plug: phosphor bronze All contacts gold-plated | PTFE |
| Between Series |  MMCX Plug to SMA Bulkhead Jack | 73078 73065 | 50 Ω | DC - 3 GHz | RG178B/U RG316/U | Gold-plated machined brass | Plug: phosphor bronze Jack: beryllium copper All contacts gold-plated | PTFE |
| |  MMCX Right-Angle Plug to SMA Bulkhead Jack | 73066 | 50 Ω | DC - 3 GHz | RG316/U | Gold-plated machined brass | Plug: phosphor bronze Jack: beryllium copper All contacts gold-plated | PTFE |



SMA



SMB



MCX



MMCX



Between Series

Who can use the new cables

- Electrical and electronics engineers and technicians
- OEM (original equipment manufacturers)
- Communications technicians
- Instrumentation technicians
- Process control technicians

Applications

- Design
- Test
- Service
- Instrumentation
- Communications systems

Comparative overview

| | SMA | SMB | MCX | MMCX | BNC | TNC | N | UHF |
|----------------------------------------|-----|-----|-----|------|-----|-----|---|-----|
| Test and measurement | • | • | • | • | • | • | • | • |
| Cable assemblies | • | • | • | • | • | • | • | • |
| Instrumentation | • | • | • | • | • | • | • | • |
| Process control | • | • | • | | • | | • | |
| Communications including base stations | • | • | • | • | • | • | • | • |
| Automotive | | • | • | | • | | | |
| Telecom | | • | • | • | • | • | • | • |
| PCMCIA cards | | | | • | | | | |
| Military | • | | | | • | • | • | • |
| Computers | | | • | • | • | | | |
| Wireless | | | • | • | • | • | • | • |
| GPS | | | • | • | | | | |
| Components | | | | • | • | | | |

SMA

SMA stands for SubMiniature version A connector. It is threaded and offers excellent electrical performance from dc to 18 GHz with semi-rigid cable, dc to 12 GHz on flexible cables. These connectors are compact and very durable.

SMB

SMB similarly stands for SubMiniature version B connector. It is smaller than an SMA connector, but with the added advantage of snap-on coupling rather than threads. SMB connectors are great for fast connect and disconnect requirements. Along with this easy connection ability, the SMB offers a bandwidth of 4 GHz.

MCX

MCX coaxial RF connectors are 30% smaller than SMB connectors, yet have the same size inner contacts and dimensions. They feature easy snap-on connection and support a bandwidth from dc to 6 GHz. MCX connectors are used in applications requiring tight spacing and light weight.

MMCX

MMCX coaxial RF connectors are even smaller than MCX connectors. They are micro-miniature connectors and offer a lock-snap connection with 360 degrees rotation. This capability offers the optimum in versatility for use on today's circuit boards. MMCX connectors have a bandwidth from dc to 6 GHz.

Like MCX connectors, MMCX connectors are used in applications where small size and light weight are critical. They are often used on Wi-Fi Mini PCI cards as antenna connectors.

BNC

BNC connectors are the most popular when it comes to RF signal connections. With easy connect and disconnect offered by their bayonet coupling, they are the work-horse of the industry. In most versions, BNC connectors are 50 Ω connectors rated to 4 GHz. 75 Ω, 4 GHz connectors are also available to meet the demand and usage of broadcast applications.

TNC

The TNC connector is almost identical to the BNC connector, except it replaces the bayonet coupling with a threaded coupling. The tight interface of the threads, especially when subjected to vibrations, allows the connector to maintain a low VSWR up to 11 GHz with flexible cable and up to 15 GHz with semi-rigid cable. TNC connectors offer better performance than the BNC connector at microwave frequencies, and are employed in a wide range of radio and wired applications.

N Type

These screw thread connectors were the first true RF connectors, originally designed to carry signals of up to 1 GHz in military applications, precision enhancements to the design have scaled this up to 18 GHz. It is still widely used in the infrastructure of land mobile, wireless data, paging, and cellular systems.

UHF

UHF connectors are generally usable through VHF and HF frequencies and can handle RF power level over one kilowatt. Despite the name, it is rarely used for actual UHF frequencies. Instead, UHF connectors are more widely used in amateur radio, citizens' band radio, and marine VHF radio.

Don't forget about these other Pomona products



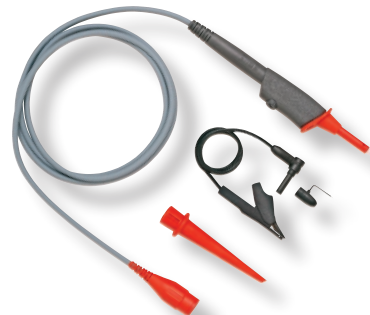
New! Calibration Kit (model number CK73041)

The Pomona Calibration Kit includes the major connectors and test cables you need for instrument calibration in one comprehensive kit. Versatile adapters and flexible cables greatly expand the variety of test cables you can create, reducing the number of special-purpose patch cords and connectors needed for calibration applications.



New! RF Connectors

RF connectors are used for connection of coaxial cables in communications, instrumentation, aerospace, and industrial applications where bandwidth and low signal loss are critical. As electronic products like cell phones and PDAs have become more compact, connectors to these products have also become smaller. Rather than using standard BNC connectors, today's technicians need smaller format connectors like SMA, SMB, MCX and MCXX connector types. To meet this demand, Pomona has introduced a family of 80 new Pomona RF connectors including SMA, SMB, MCX, and MCXX connectors and adapters.



New! Insulated Oscilloscope Probes for Portable Applications

Featuring an ergonomic design with comfort grip, fully insulated, and with a 500 MHz bandwidth, these probes provide plenty of headroom for those high frequency measurements.

With a CAT II 600 V, CAT III 300 V rating, these probes are perfect for use with portable oscilloscopes.

For more information

You can quickly find complete product specifications and discover Pomona's newest product announcements when you visit our website: www.pomonaelectronics.com

Now there are three ways for you to find the product you are looking for.

• Search by Keywords

Simply click on Search by Keywords in the left hand column of the homepage. Then enter the description of the product in the keywords box and select Go.

• Search by Model Number

Enter the model number of the Pomona product into the Search by Model No. box and select Go.

• Search by Category

From the homepage, select View Products under either 'Test and Measurement' or 'Broadcast/Multimedia'. You will see a list of product categories from which to choose.

Whichever method you choose, you will be presented with model numbers and 'pdf' hotkeys which will take you directly to specification information on the product you want.



Key literature

Pomona full line catalog

Pomona has a full line of products from cables, banana plugs, patch cords, test clips, and probes. Visit www.pomonaelectronics.com to order or download your copy today.



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