

Mastering the RF Connection

First: The Problem

Conducting RF power from one location to another has always been a problem in the crowded confines of a communication station. Hundreds of cables in floor troughs or ceiling raceways take on the look of a rat's nest as new facilities are added and old equipment replaced. Not only is keeping track of routing a nightmare, but switching RF is equally painful. TMC long ago recognized the problem and did something about it.

Second: The Solution

The patch panels TMC developed provide a clean way of routing RF without introducing path loss. They also allow operators to isolate equipment that may need servicing or to insert new equipment. Temporary routing to a test console is a particularly useful and widespread application. A variety of adapters convert existing plug and connector types so that any station can use the newer devices without interruption.

Third: The Result

From many years of field experience, the use of patch panels to bring RF out to accessible locations in a station has made servicing a lot easier. Technicians can now locate faulty equipment, perform routine tasks from a central console or alter the RF path to suit varying conditions without bringing the station down. Initial costs are also lower since fewer cables and less support equipment is needed.

> 40KW RF Rating

> Quick-Disconnect Action

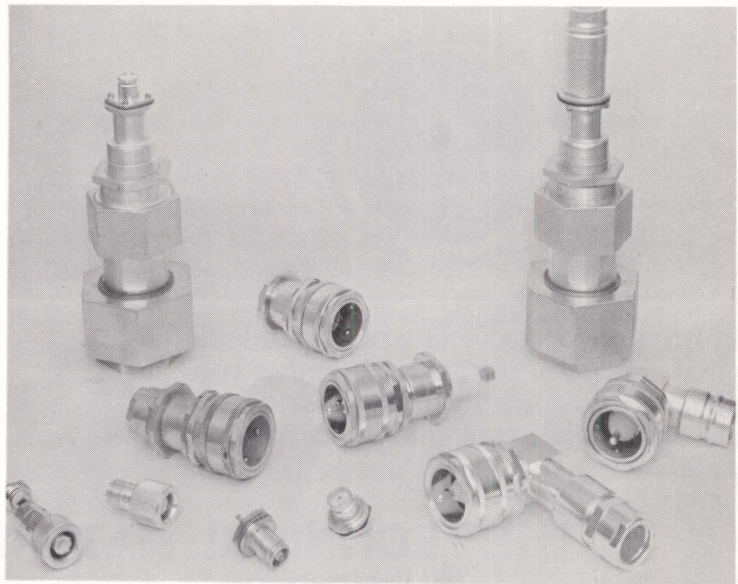
> Coaxial RF Switching

> Sealed-in Protection

> "RTG" Construction

> Adaptable Routing

> Field Proven Designs



^ Connector Accessories

Disconnect Is Quick

To simplify any RF switching from one path to another, TMC developed the quick-disconnect series of connectors and plugs. These coaxial devices use a unique push-pull action to make or break the circuit, and replace the older LC, UHF, N, C and BNC terminations. Operating power levels range from low-level received RF to high-level transmitted RF. The connectors are sized from miniature to large and can be used on all TMC switching patch panels.

Switch and Route

Patch panels can be of two types: normal-thru and switching. Permanent installations use normal-thru types since there are very few changes required in the RF path. Switching panels, however, are popular with technicians, engineers and scientists who often need to change the RF path with a minimum of effort. The simple act of removing one RF patch cable - without plugging another in - has the effect of changing the RF plan of a complete station.

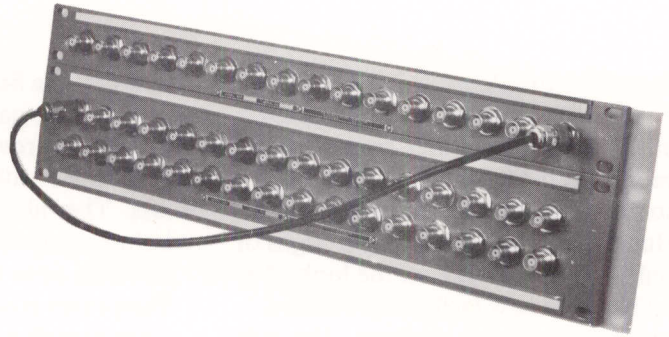
Neat, Clean and Lasting

"RTG" is an acronym for Rhodium-Teflon-Gold which describes the type of construction TMC uses on all of its connector products. It not only gives the equipment a clean look, but it also has a highly practical value: it greatly extends the useful service life of the product. Shock and vibration tests performed have shown that TMC connector products exceed military standards. Active ship and shore stations have consistently confirmed these test results.

Developed initially for use in U.S. Navy fleet operations, TMC's extensive line of connector products sets today's standard for professional RF patching facilities. These products are well-suited to a wide variety of applications, both temporary and permanent, that demand quick re-routing of RF paths or rapid connections between dissimilar coaxial cables. All units are designed to withstand excessive vibration and are built to TMC's rigid standards to insure a long, trouble-free service life.

Free Catalog

The Connector Products Catalog TMC designed for its customers solves two problems: knowing what to specify for purchase and knowing how to apply the connector products you select. Write or call today for a copy of this catalog. It's a handy reference as well as a useful guide to mastering the RF connection in your system.



^ RF Coaxial Switching Patch Panel
Model SPP-40516 with CA480 Cable



Master the RF Connection

Select from an extensive line of professionally-designed connector products. Whether you distribute RF in a laboratory or provide a clear path to antenna systems, find the best solutions with TMC.

RF CONNECTOR PRODUCTS

Switching Patch Panels
Normal-Thru Jack Panels
Bridging Jack Panels
Connector Adapters
UHF/N/C/EIA/BNC/LC/HN
Quick-Disconnect Switches
Cable End Seals
Plugs and Receptacles
RF Patch Cables
Switching Bays
Full Interlock Protection

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