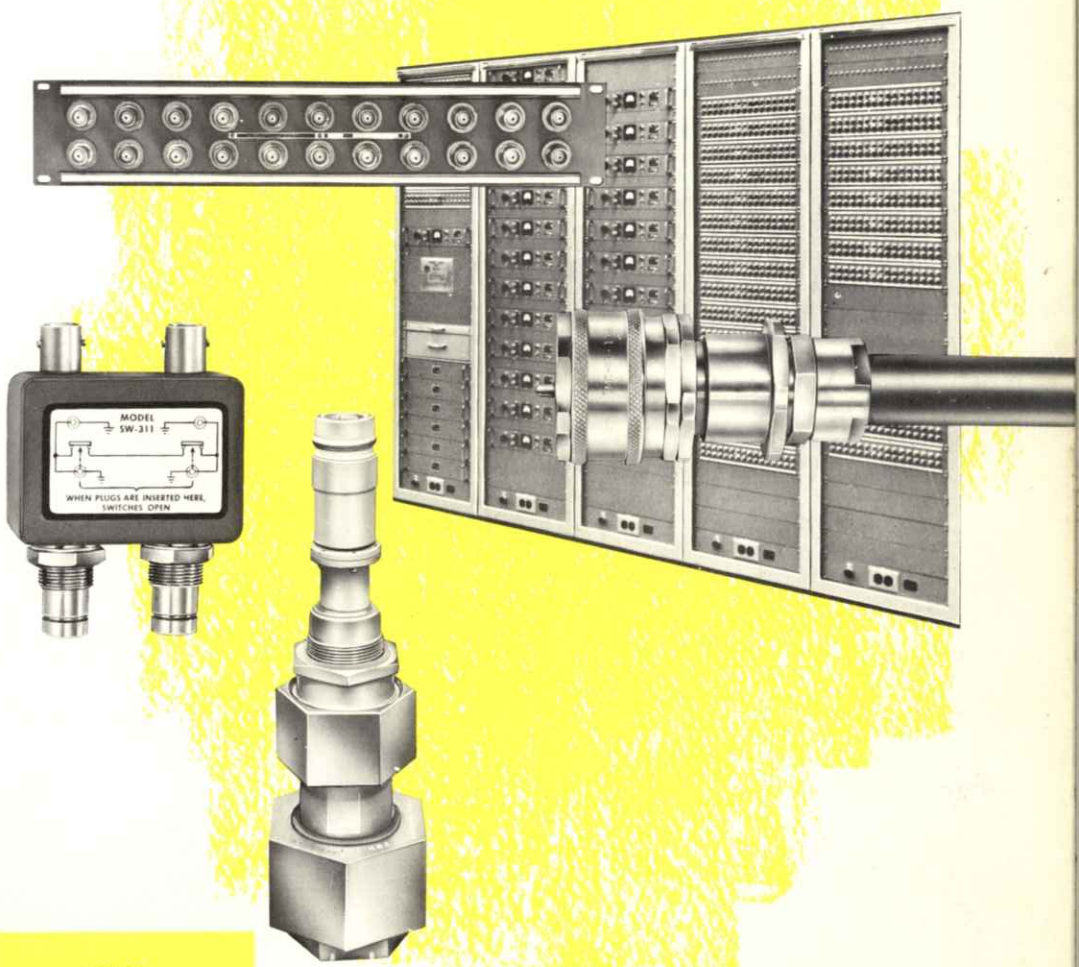
AUDIO

AF

VIDEO

RF PATCHING *Systems* & ACCESSORIES



CONNECTOR PRODUCT CATALOG

The Technical Materiel Corporation

MAMARONECK N. Y. 10543

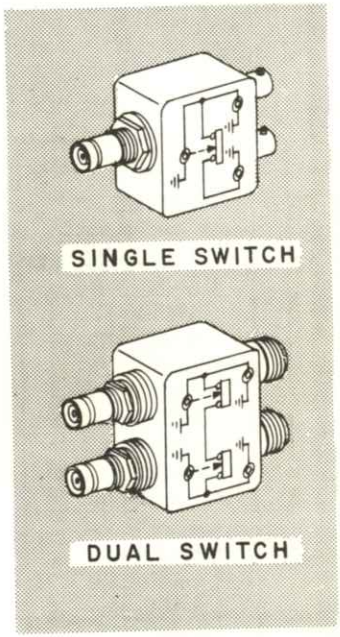
NORMAL THRU RF SWITCH ASSEMBLIES

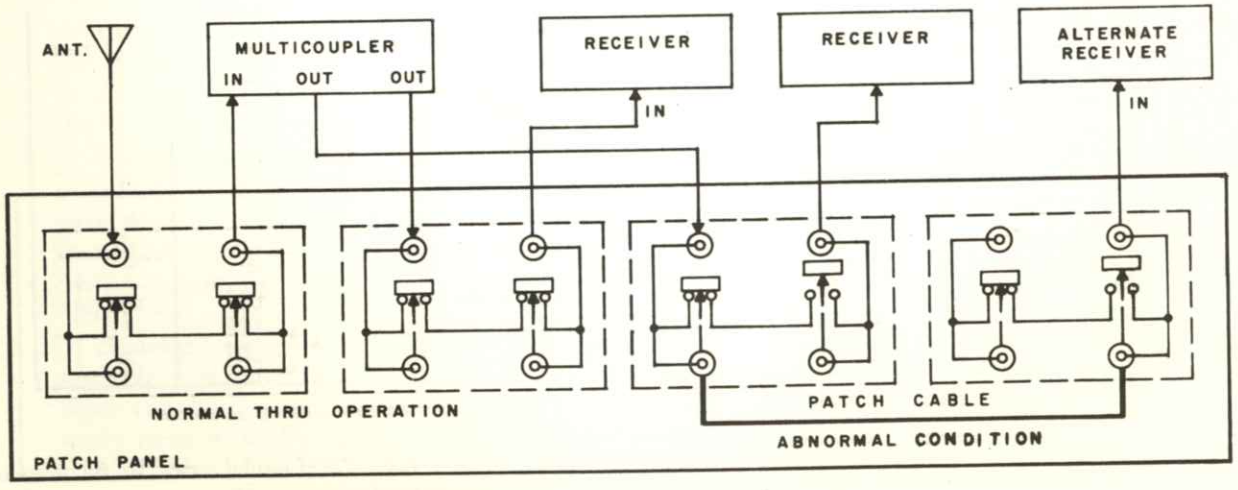
SW SERIES 50 and 70 OHMS

SW

TMC R.F. Switch Assembly (SW) series are of the normal-thru type. Standard series rear connections and a special patented switch assembly for front connections of standard "BNC", "C" and the new "QDM" and "QDS" quick disconnect series are provided.
These connectors utilize a special switch jack assembly which permits complete coaxial R.F. switching without frictional sliding contacts. Assemblies are complete and hermetically sealed against dust and moisture.
All assemblies supplied can be mounted directly on the TMC SPP series.

SINGLE SWITCH		CONNECTOR SERIES		DUAL SWITCH	
50 OHM	70 OHM	FRONT	REAR	50 OHM	70 OHM
SW-195	–	QDS	UHF	SW-206	–
SW-196	–	QDS	BNC	SW-224	–
SW-211	–	QDS	N	SW-225	–
SW-282	–	QDS	C	SW-284	–
SW-210	–	QDS	HN	–	–
SW-317	–	QDM	QDM	SW-318	–
SW-305	SW-483	QDM	BNC	SW-311	SW-477
SW-307	SW-482	QDM	N	SW-309	SW-458
SW-306	SW-481	QDM	C	SW-310	SW-488
SW-308	SW-480	QDM	UHF	SW-312	SW-478
SW-401	–	C	C	SW-348	–
SW-493	–	C	BNC	SW-498	–
SW-494	–	C	UHF	SW-499	–
SW-409	SW-484	BNC	BNC	SW-422	SW-489
SW-495	SW-485	BNC	UHF	SW-500	SW-490
SW-496	SW-486	BNC	N	SW-501	SW-491
SW-497	SW-487	BNC	C	SW-502	SW-492



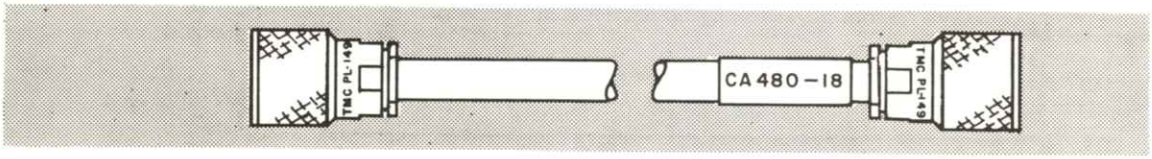


PATCH CABLES
QDS, QDM, BNC, C TYPE

CA

CA-480 SERIES

TMC Patch Cables are available in a variety of types and lengths to meet specific requirements. Cable assemblies are manufactured in accordance with rigid Quality Control and inspection procedures that meet or exceed most Military and Commercial specifications.
Cable assemblies are constructed of the latest components consistent with Military specifications.



TMC PART NO.	Connectors		CABLE		Connectors	
	Series	Type	RG-/U	OHMS	Series	Type
CA-480- 5- XX	BNC		RG-58/U	50	BNC	
CA-480- 6-	BNC		RG-59/U	70	BNC	
CA-480- 17-	QDS		RG-8/U	50	QDS	
CA-480- 18-	QDS		RG-11/U	70	QDS	
CA-480- 19-	QDS		RG-59/U	70	QDS	
CA-480- 20-	QDS		RG-216/U	70	QDS	
CA-480- 21-	QDS		RG-10/U	50	QDS	
CA-480- 22-	QDS		RG-12/U	70	QDS	
CA-480- 25-	QDS	Angle	RG-8/U	50	QDS	Angle
CA-480- 26-	QDS	Angle	RG-11/U	70	QDS	Angle
CA-480- 30-	QDS		RG-11/U	70	UHF	
CA-480- 33-	C		RG-8/U	50	C	
CA-480- 43-	QDS		RG-216/U	70	QDS	
CA-480- 46-	QDS		RG-55/U	50	QDS	
CA-480- 50-	QDS		RG-214/U	50	QDS	
CA-480- 69-	QDM		RG-58/U	50	QDM	
CA-480- 70-	QDM		RG-59/U	70/50	QDM	
CA-480- 78-	QDS		RG-213/U	50	QDS	
CA-480- 89-	QDM		RG-62/U	93	QDM	
CA-480- 93-	QDM		RG-55/U	50	QDM	
CA-480- 98-	C		RG-213/U	50	C	
CA-480-106-	QDS		RG-213/U	50	N	
CA-480-108-	QDS		RG-58/U	50	QDM	
CA-480-127-	QDS		RG-213/U	50	QDS	
CA-480-140-	QDS		RG-8/U	50	C	
CA-480-146-	QDS		RG-8/U	50	N	
CA-480-151-	QDS		RG-8/U	50	HN	
CA-480-155-	QDM		AMP.621-186	75	QDM	
CA-480-159-	BNC		RG-58/U	50	QDM	
CA-480-167- X X	QDM		RG-59/U	70	QDM	

ADD LENGTH IN INCHES

For ease of selection, Patch cables are listed separately in this catalog for each Patch Panel model series. We recommend cable listed for use with TMC models and components for electrical and mechanical compatibility.

RF SWITCH PATCH PANELS

SPP

The expanded TMC R.F. Switch Panel (SPP) series is of the normal-thru type and is provided with standard series rear connections and a special patented switch assembly for front connections of standard "BNC" and "C" series and the new quick disconnect series "QDM" and "QDS". These connectors utilize a special switch jack assembly which permits complete coaxial R.F. switching without frictional sliding contacts. Assemblies is complete and hermetically sealed against dust and moisture.

TMC R.F. Patch Panels have been installed for jackfield installations above and below ground: for transmitting, receiving, video, signal synchronizing and signal distribution systems through-out the world, military or commercial.

TMC Patch Panels are supplied for standard rack or console installations with a wide range of variations to handle a large number of "signal" to "termination" circuits. The number of switch assemblies mounted in a standard 19 inch wide panel is limited; but selection can be made for maximum circuit requirements by increased panel heights and with switch assemblies mounted across the panel as follows:

1 to 16 QDM or BNC switch connector series;

1 to 11 QDS or C switch connector series.

All panels are machined for mounting maximum number of switch assemblies across the panel.

Identification strips are provided for each connector on the front of the panel. Symbol numbers can be provided for each connection on the rear; upon request. If a minimum number of switch assembly is used, all remaining holes are blanked with appropriate covers; thus future expansion is assured by simply obtaining and mounting another component.

Switch assemblies are of the normal-thru type and associates a normal signal "source" with particular equipment "termination" so that under normal conditions there are no patch cords visible. Coupling a patch cord into a jack on the signal "source" automatically interrupts the "source" for rerouting of signal to another pre-selected "termination" and with another patch cord to interrupt the "termination" and route to another pre-selected signal "source".

Switch assemblies and Patch Panels have exceeded shock and vibrations tests of MIL-S-901 and MIL-STD-167. The QDS series VSWR via normal or switched path does not exceed 1.02/1 over the frequency range of 2 to 32 MHz. Isolation from jack to jack with normals terminated is 55db at 8 MHz, 43db at 30 MHz. Switch assemblies range 50 and 70 ohms and will meet most rigid specs to 400 MHz.

Standard switch assemblies, mounted in Panels (SPP Series), is available or as separate components (SW Series). Patch Facilities or single assembly configurations can be designed for most circuit requirements. TMC Connector Division is ready to assist with qualified and experienced technical assistance.

RF SWITCH PATCH PANELS

MODEL EXPLANATION
QDM, BNC, C, SWITCH PATCH PANEL

SPP N 40 4 16

NUMBER OF SWITCH ASSEMBLIES: SINGLE ROW, PER PANEL

1 - 16 QDM, BNC, Dual Series per 3 1/2 Panel
1 - 11 QDS, C Dual Series per 3 1/2 Panel
1 - 16 QDM, BNC Single Series per 1 3/4 Panel
1 - 11 QDS, C Single Series per 1 3/4 Panel

CONNECTOR (FEMALE) SERIES TO APPEAR ON REAR OF SWITCH ASSEMBLY

1 - QDS	4 - BNC	7 - UHF	10 -
2 -	5 - C	8 - HN	11 - TWIN
3 - QDM	6 - N	9 -	12 - TNC

DUAL OR SINGLE R.F. SWITCH SERIES TO APPEAR ON FRONT OF PANEL

50 ohm	30	Single QDM	41	Single BNC	51	Single C
	40	Dual QDM	42	Dual BNC	52	Dual C
70 ohm	33	Single QDM	43	Single BNC		
	34	Dual QDM	44	Dual BNC		

NOTE:

Patch Panels which are not part of this nomenclature, but fall within category, are the QDS series SPP 1A11, SPP 3B11, etc; SEE NEXT PAGE.

PANEL MATERIAL REQUIREMENTS

----	Standard Alum Panel 2024.T3
E -	Epoxy Panel
N -	Insulated Switches on Alum Panel

TMC MODEL DESIGNATION:

SPP Switch Patch Panel

Standard finish on all TMC Panels in accordance with TMC Specification S-115 Color grey enamel, Front and leading edges; unless otherwise specified as per customer specification.

For further information or Application Engineering contact • THE TECHNICAL MATERIEL CORP.
*CONNECTOR PRODUCTS DIVISION OF
MAMARONECK, NEW YORK, 10544

ACCESSORIES
PLUGS, SERIES ADAPTERS

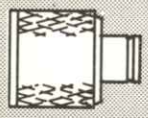
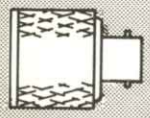
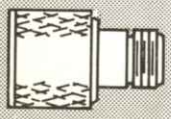
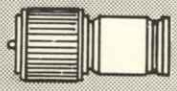
WORLD WIDE SUPPLIERS OF ELECTRONIC COMMUNICATIONS EQUIPMENT

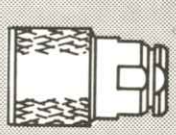
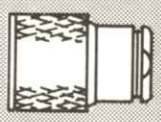
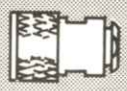
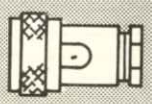
SA/PL/UG

TMC nomenclatured connectors are "RTG" constructed and inspected to rigid quality control procedures. Plugs (PL), Jack Receptacles (JJ) and Series (SA) retain TMC Part nomenclatures to insure proper mating compatibility with each series. Connectors compatible to military "UG" versions, are manufactured to military specifications.

Between Series Adapters (SA) are in-line connectors which allow adaption of one type of coaxial fitting to another. Utilizing these adapters, temporary, rapid or permanent connections can be made between dissimilar coaxial connectors.

Plug connectors are designed to adapt a variety of cables with different diameters to specific plug series.

	SA-101 ADAPTER, RECEPTACLE QDS MALE / UHF FEMALE
	SA-121 ADAPTER, RECEPTACLE QDS MALE / QDM FEMALE
	SA-105 ADAPTER, RECEPTACLE QDS MALE / BNC FEMALE
	SA-127 ADAPTER, RECEPTACLE QDS MALE / N FEMALE
	SA-125 ADAPTER, RECEPTACLE QDM MALE / BNC FEMALE
	SA-106 ADAPTER, RECEPTACLE UHF MALE / QDS FEMALE

	PLUG CONNECTOR, QDS PL-149 RG 8-9-10-11-12-13-213-214-215-216 /U
	PLUG CONNECTOR, QDS PL-156 RG 55-58-223 /U PL-157 RG 59-62-71 /U
	PLUG CONNECTOR, QDM PL-224 RG 55-58-223 /U PL-255 RG 59-62-71 /U
	PLUG CONNECTOR, BNC UG 88 /U RG 55-58-223 /U UG 260 /U RG 59-62-71 /U
	PLUG CONNECTOR, C UG 943 /U RG 8-9-10-11-12-13-213-214-215-216 /U UG 709 /U RG 55-58-223 /U UG 627 /U RG 59-62-71 /U
	PLUG CONNECTOR, N UG 941 /U RG 8-9-10-11-12-13-213-214-215-216 /U UG 536 /U RG 55-58-223 /U UG 603 /U RG 59-62-71 /U

WORLD WIDE SUPPLIERS OF ELECTRONIC COMMUNICATIONS EQUIPMENT

Modern communication systems demand the utmost of personnel and equipment to ensure the effective performance of todays highly sophisticated and complex systems. Therefore, reliability of each piece of equipment and component is essential.

TMC, in achieving this goal, applies the concept of established reliability to the manufacture of its Patch Panels and Components. This method of Quality Control assures the high reliability and performance of all its patch facilities in the vital operation of transmitting, receiving, video, signal synchronizing and signal distribution installations, both commercial and military throughout the world.

The connectors used in our products are fabricated to rigid TMC specifications and utilize our standard "RTG" construction wherever practicable.

RHODIUM FLASH PLATING — Over silver plate on all components, resulting in extreme hardness, low noise frequency caused by oxidation and long lasting attractiveness.

TEFLON INSULATION — Virgin Teflon dielectric material providing low loss, high insulation resistance.

GOLD PLATED CONTACTS — Gold electro-plating on beryllium copper, phospher bronze, brass contacts and contact shielding fingers, providing high conductivity and extremely low contact noise and resistance.

THE TECHNICAL MATERIEL CORPORATION

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