Radiall



Medical Solutions

High-Performance Interconnect Solutions for Next-Generation Medical Devices

SIMPLIFICATION IS OUR INNOVATION

Foreword

Radiall is a trusted partner in the medical market, where quality, reliability and performance directly support patient care and clinical outcomes. With more than 30 years of experience supporting medical applications worldwide, Radiall delivers proven interconnect solutions designed to meet stringent regulatory, safety and demanding applications.

Supported by a cross-business-unit and cross-regional organization, Radiall delivers consistent quality and long-term reliability across a wide range of medical technologies. Custom solutions are designed to address the specific requirements of medical device manufacturers, helping bring dependable, high-performance systems to market.

Our complete range of interconnect solutions for medical applications includes:

- Radiofrequency connectors and assemblies
- Fiber Optic connectors and assemblies
- Multipin connectors
- Microwave components
- Contactless solutions






SURGICAL DEVICES
IMAGING SYSTEMS
MONITORING
LAB
TEST & MEASUREMENT
WEARABLES

Table of Contents

01

Imaging Systems

- **MRI** – Patient Coil
- **MRI** – Patient Table
- **MRI** – Gradient Coil & Technical Room
- **CT Scanner** – Gantries Interface
- **X-Ray Machine** – High-Voltage Generator

02

Surgical Devices

- **Robotics** – Surgical Arm
- **Surgical Laser** – Laser Delivery
- **Fixed Infusion Pump** – Inter-Pump Connectivity
- **Portable Infusion Pump** – Pump Docking
- **Optical Sensors** – Probe Connectivity
- **Endoscopes** – CCU Connectivity
- **Skin Care & Aesthetic Devices** – RF Transmission

03

Monitoring

- **Fetal Monitoring** – Transducer Connectivity

04

Lab

- **NMR Spectrometer** – Magnet-to-Console

05

Wearables

- **Cochlear Implant** – Processor-to-Transmitter

06

Test & Measurement

- **T&M Equipment** for Medical Devices

One Partner.
Every Connection.

The medical environment introduces a unique set of constraints that require purpose-designed interconnect solutions and proven expertise. To meet the diverse needs of medical devices, Radiall offers a broad portfolio of interconnect technologies. This multi-technology approach allows engineers to select and combine the right solutions while maintaining consistent quality and performance.



RF Coaxial Connectors

- Non Magnetic Coaxial Connectors
- High Voltage Connectors
- High Power RF Connectors
- RF Coaxial Adapters



RF Cable Assemblies

- Non-Magnetic Flexible Cables
- Non-Magnetic Semi-Rigid Cables



Optical Connectors

- ST, LC and F-SMA Connectors Adapted for Standard and Large Core Fibers



Optical Cable Assemblies

- Single-fiber Custom Cable Assemblies (LC, SC, ST)
- Multi-fiber Custom Cable Assemblies (MPO, Multi-channel Circular, Rectangular connectors)
- Fiber Lensing and Glass Shaping Technology



Microwave Components

- Attenuators and Terminations
- Coaxial Switches
- Power Dividers and Couplers
- Antennas and Contactless Connectors



Multipin Industrial Connectors

- Power, Circular, Custom and Modular Connectors



Meeting the Demands of Medical Technology

EMI Exposure

Medical devices are often sensitive to electromagnetic interference (EMI), which can disrupt their operation. Connectors must therefore provide good EMI shielding or immunity to prevent noise or interference from affecting data transmission or device performance.

High Mating Cycles

Medical connectors may be repeatedly connected and disconnected during cleaning, maintenance, or patient reconfiguration. They must therefore withstand a high number of mating/unmating cycles without mechanical or electrical degradation.

Exposure to Fluids

In medical environments, connectors may be exposed to biological fluids, cleaning solutions and disinfectants. They must be fluid-resistant and sealed to specific IP ratings to prevent ingress, corrosion and contamination while ensuring long-term performance.



Non-Magnetism

Some medical devices, like MRI or NMR spectrometers, use very strong magnetic fields. Components must be fully non-magnetic to avoid interference and ensure patient and operator safety. Connectors must use non-ferromagnetic materials to meet this requirement.

Sterilization

Connectors must endure common sterilization processes such as autoclaving (high-temperature steam), chemical sterilization, or radiation sterilization. This means materials must resist heat, moisture, and chemicals without losing performance or degrading.

Biocompatibility

In applications where connectors are exposed to the patient or to bodily fluids, they must comply with applicable biocompatibility requirements. In these cases, materials must remain non-toxic, non-irritating and biologically inert for the duration of contact.



01

IMAGING SYSTEMS

- **MRI** – Patient Coil
- **MRI** – Patient Table
- **MRI** – Gradient Coil & Technical Room
- **CT Scanner** – Gantries Interface
- **X-Ray Machine** – High Voltage Generator

Medical imaging technologies play a critical role in diagnosis, monitoring and treatment across a wide range of clinical applications.

Radiall supports next-generation imaging systems with advanced RF, fiber optic and other interconnect solutions that preserve image quality, meet the demanding requirements of MRI and modular imaging platforms, and support the evolution toward higher resolution, data-intensive and AI-enabled medical imaging.

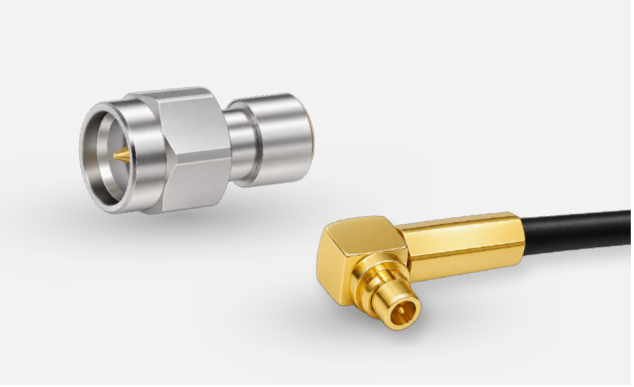
APPLICATIONS

MRI – PATIENT COIL	
Multi-Channel Coil & Common Input Board	Non-Magnetic RF Connectors & Cable Assemblies
MRI – PATIENT TABLE	
Posterior Coil Connectivity & Table Position Control	Custom Non-Magnetic Multigang Solutions
MRI – GRADIENT COIL & TECHNICAL ROOM	
Technical Room Connections	Small RF Connectors and Assemblies
	Medium RF Connectors and Assemblies
Technical Room-to-Coil Connectivity	High-Power Connectors and Assemblies
Transmitter-to-Receiver Coil Signal Routing	Switch SPDT
Scanner-to-Computer Image Data Transmission	Optical Connectors and Assemblies
CT SCANNER – GANTRIES INTERFACE	
Rotating-to-Stator Gantry Data Transfer	Contactless Connectors
X-RAY MACHINE – HIGH VOLTAGE GENERATOR	
Generator-to-X-Ray Tube Power Supply	High-Voltage Circular Connectors
	RF High-Voltage Connectors

MRI – Patient Coil



Multi-Channel Coil & Common Input Board



Non-Magnetic RF Connectors & Cable Assemblies

Radiall's non-magnetic connectors and cable assemblies cover a broad range of small RF connectors **(SMA, SMB, SMP, MCX, MMCX)**, PCB cable terminations and flexible and semi-rigid cables. Built with a snap-on connection system, excellent shielding and MIL-STD-202 compliant mechanical robustness, they support cable-to-board, cable-to-cable and board-to-board configurations with low insertion loss throughout.

The nonmagnetic, customizable design delivers MRI-safe operation, low EMI, reliable signal stability and tool-free installation in compact environments.

MRI – Patient Table



Posterior Coil Connectivity & Table Position Control



Custom Non-Magnetic Multigang Solutions

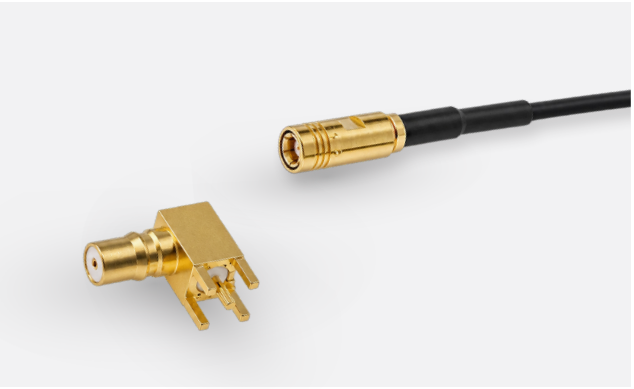
Radiall's custom non-magnetic multigang coaxial kits are tailor-made to support multiple connector types with a customizable number of gangs, impedance levels and a locking housing.

In MRI equipment rooms, these solutions reduce cable clutter and deliver accurate RF signal transmission for patient coils in demanding and compact medical environments.

MRI – Gradient Coil & Technical Room



Technical Room Connections



Small RF Connectors and Assemblies

Radiall's small RF connectors and assemblies include **SMA, SMB, SMP, MCX, MMCX** and **SMC** connectors alongside flexible and semi-rigid cable assemblies in compact, high-density formats. With excellent shielding, MIL-STD-202 compliant robustness and a choice of snap-on, push-on or threaded coupling, they support fully customizable plating and geometry for virtually any application.

Low insertion loss and low EMI interference support high-quality imaging and diagnostic accuracy, while tool-free installation and vibration stability make them a dependable fit for any coil or board configuration.



Medium RF Connectors and Assemblies

Radiall's medium RF connectors and assemblies cover **BNC** and **N** connector types with fully customizable cable lengths, shielding and overmolding options suited to medical applications. They deliver low insertion loss for precise RF performance and are rated to 500 or more mating cycles, making them well-suited for repeated handling in clinical environments.

Easy installation, stable signal integrity under vibration and solid mechanical construction help minimize system downtime across demanding MRI applications.

Technical Room-to-Coil Connectivity

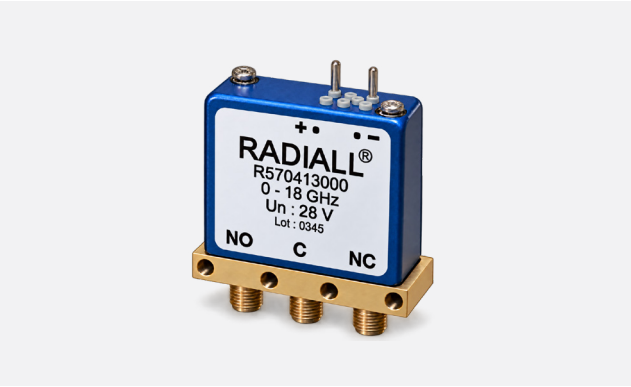


High-Power Connectors and Assemblies

Radiall's high-power connectors and assemblies span **HN, 7/16, 4.3-10** and **NEX10** connector types, paired with corrugated 1/2" flexible cable assemblies. The HN series handles up to 1.2 kW at 1 GHz, 500-plus mating cycle robustness and IP67/IP68 overmolding keep assemblies protected in tough environments.

With dielectric withstanding voltage up to 2 kV, they simplify installation and reduce failure risk in the most power-intensive MRI technical room setups.

Transmitter-to-Receiver Coil Signal Routing

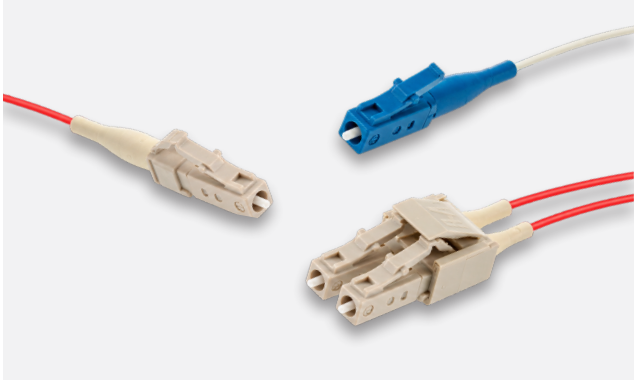


Switch SPDT

Among Radiall's extensive range of RF switching solutions, the **Single-Pole Double-Throw (SPDT)** switch is one example, operating up to 18 GHz with a mechanical lifetime of 10 million cycles, making it a strong fit for repeated automated calibration routines.

Very low insertion loss as low as 0.10 dB typical, high isolation of 60 to 80 dB and a switching time under 10ms in either failsafe or latching configurations deliver the RF performance needed for maximum image quality. SMA connectors allow straightforward integration into existing test and monitoring boards without any system redesign.

Scanner-to-Computer Image Data Transmission



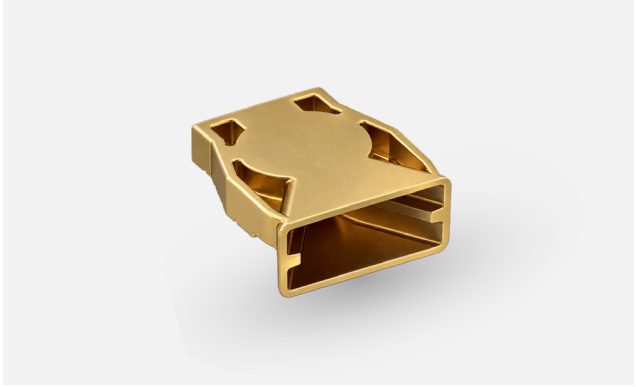
Optical Connectors and Assemblies

The growing volume of imaging data generated by next generation MRI systems is driving increased adoption of fiber-optic interconnects for high-speed, reliable transmission. Radiall's connectors and cable assemblies support data rates up to several Gb/s in a compact housing rated to 500 or more mating cycles. Built from UL 94 V0-rated plastic with customizable lengths and termination options such as **LC** or **MT**, they provide electromagnetic isolation from MRI magnetic fields for high-fidelity, low-loss transmission over tens of meters. Plug-and-play assemblies tailored to specific applications further simplify integration.

CT Scanner – Gantries Interface



Rotating-to-Stator Gantry Data Transfer



Contactless Connectors

Radiall's **CO60** contactless connectors operate at 60 GHz and support data rates up to 6 Gb/s while consuming only 55 mW in transmit mode and 30 mW in receive mode. Their compact, contactless design eliminates wear from rotating parts, simplifies integration, and reduces maintenance requirements.

As CT scanners continue to deliver higher-resolution images with faster acquisition speeds, the volume of data transferred across the rotating gantry keeps increasing, making high-speed, reliable contactless connectivity more critical than ever.

X-Ray Machine – High Voltage Generator



Generator-to-X-Ray Tube Power Supply





High-Voltage Circular Connectors

Our **CVS** and **CVBS High-Voltage Circular Connectors** are specifically designed for high-voltage generator applications. Engineered to withstand kV-level pulses, they feature a quick bayonet coupling, IP68 sealing, an operating temperature range from -55 °C to +200 °C, and customized sealing for oil-immersed environments.

Their rugged design ensures reliable high-voltage power transmission, enhanced durability in harsh operating conditions, and simplified installation, making them ideal for demanding diagnostic imaging systems.

RF High-Voltage Connectors

Radiall's RF high-voltage connectors are rated for pulses between 5 kV and 40 kV and come in four termination types: **BNC HT, MHV, SHV, THT20** and **THT40.** Protected center contacts ensure there is no risk of electrical shock when connectors are unmated, and multiple coupling options including bayonet allows for an easy and safe integration.

The broad range of configurations supports reliable energy delivery across a wide variety of application requirements.



02

SURGICAL DEVICES

- **Robotics** – Surgical Arm
- **Surgical Laser** – Laser Delivery
- **Fixed Infusion Pump** – Inter-Pump Connectivity
- **Portable Infusion Pump** – Pump Docking
- **Optical Sensors** – Probe Connectivity
- **Endoscopes** – CCU Connectivity
- **Skin Care & Aesthetic Devices** – RF Transmission

Surgical environments demand uncompromising reliability, ergonomic designs and components capable of withstanding sterilization cycles. Radiall's interconnect solutions deliver dependable performance in life-critical applications while supporting compact, lightweight, easy-to handle devices.

From fiber optic connectivity for surgical lasers and optical sensors to customized solutions for robotic surgery, energy-based devices, and other advanced equipment, Radiall supports a broad range of surgical applications tailored to the specific needs of each system.

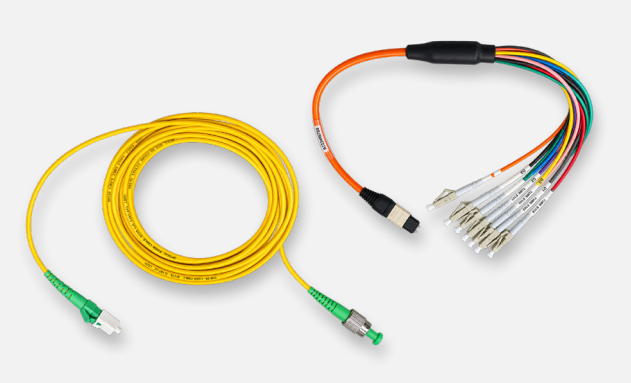
APPLICATIONS

ROBOTICS – SURGICAL ARM	
Sensors & Control Modules-to-Main Console	Harnesses & Optical Cords
SURGICAL LASER – LASER DELIVERY	
Laser Source-to-Handpiece Optical Transmission	ST Connectors Adaptable to Large-core Fiber
	SMA Fiber Assemblies with Large-core Fiber
FIXED INFUSION PUMP – INTER-PUMP CONNECTIVITY	
Power Supply & Data Transfer	Custom Electric Connectors & Cable Harnesses
PORTABLE INFUSION PUMP – PUMP DOCKING	
Battery Recharging & Data Transfer	Custom Pogo Connectors
OPTICAL SENSORS – PROBE CONNECTIVITY	
Optical Light Transmission	Large-Core Fiber Optic Connectors & Cable Assemblies
Data, Power, Signal & Light Transmission	Custom Hybrid Fiber Optic & Electrical Connectors & Cable Assemblies
ENDOSCOPES – CCU CONNECTIVITY	
Video Transmission	Custom Overmolded Cable Assembly
SKIN CARE & AESTHETIC DEVICES – RF TRANSMISSION	
Treatment Mode RF Signal Switching	Radiofrequency Switches
Generator-to-Treatment Head	Small RF Connectors & Assemblies
	Medium RF Connectors & Assemblies
	High-Power Connectors & Assemblies

Robotics – Surgical Arm



Sensors & Control Modules-to-Main Console



Harnesses & Optical Cords

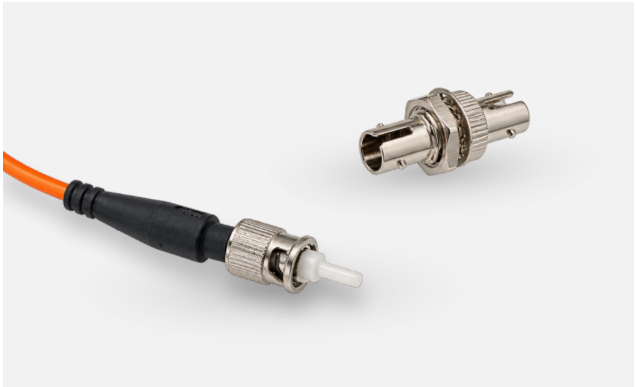
These standard fiber optic cable assemblies and patch cords support multiple termination types including **LC**, **SC** and **MTRJ** across both multimode and single-mode fiber in a range of fiber diameters.

Reliable by design for medical environments, they offer several customization options in terms of cable assemblies to suit all specific application requirements.

Surgical Laser – Laser Delivery



Laser Source-to-Handpiece Optical Transmission





ST Connectors Adaptable to Large-Core Fiber

Compatible with large-core multimode fiber up to 1,000 µmin diameter, the **ST connectors** are suited for low-power laser applications handling a few watts. A full-metal cylindrical body, 500 or more mating cycles and an operating temperature range of -55 to +125 °C give them the durability needed for repeated clinical use, and sealed versions are available for more demanding environments.

Bayonet coupling keeps installation and maintenance quick and error-resistant, and fully customizable cable assemblies make them a versatile fit for a wide range of small surgical lasers.

Custom Large Core Fiber Assemblies

Supporting fiber cores up to 600 µm and handling approximately 10 to 30 W, our fully customizable large core fiber assemblies are terminated with a large range of connectors, including the **F-SMA.** It is well-suited for common surgical laser applications in fields such as dermatology and urology.

Mature, cost-effective technology means predictable lead times and a stable product, while design flexibility, responsive engineering support and adaptability to other termination types make them a reliable option for a broad range of surgical laser setups.

Fixed Infusion Pump – Inter-Pump Connectivity



Power Supply & Data Transfer



Custom Electric Connector & Cable Harnesses

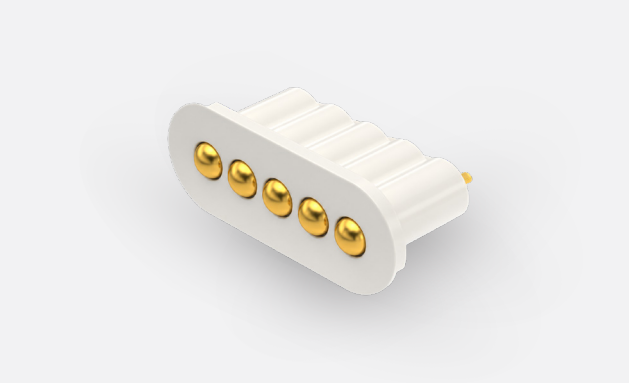
Designed for demanding medical environments, these custom electric connectors and hybrid data and power harnesses withstand up to 10,000 mating cycles and offer fluid resistance to Anios D.D.S.H, 300V DC insulation, 30 dB crosstalk and up to 64 W peak power.

Custom harnesses support up to 8 DC contacts with twisted pair wiring for Ethernet and power. Tailored lengths and configurations combine power and data in a single harness, simplifying integration and meeting application-specific requirements.

Portable Infusion Pump – Pump Docking



Battery Recharging & Data Transfer



Custom Pogo Connectors

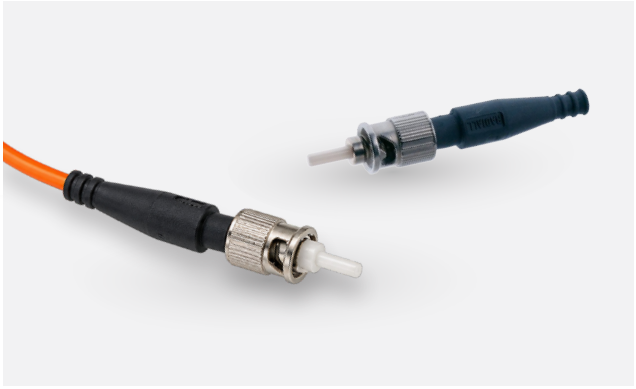
Configured to order with a custom number of contacts, these pogo connectors support up to 5,000 mating cycles, 24 V max power and 1A max intensity via PCB soldering. Proven designs include 2-contact versions for battery charging and 5-contact versions combining power supply and data connectivity for pump SIM integration.

High durability for repeated medical environment handling and close engineering support throughout development make these a dependable solution for specialized surgical device applications.

Optical Sensors – Probe Connectivity



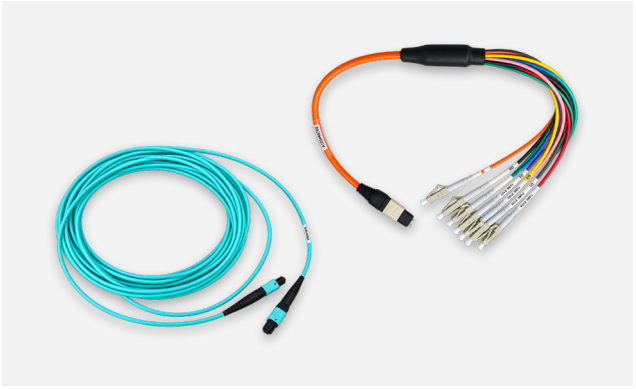
Optical Light Transmission



Large-Core Fiber Optic Connectors & Cable Assemblies

Following the IEC 1754 standard, these **ST-type** large-core fiber optic connectors and cable assemblies support fiber diameters from 140 to 660 µm with a full-metal cylindrical body, bayonet coupling, IP64 environmental protection and an operating temperature range of -55 to +125 °C rated to 500 or more mating cycles. Compatible with a wide range of sensor types, they support efficient light transmission across multiple wavelengths, connect quickly with reduced risk of connection errors and ensure repeated use thanks to their robust metal construction.

Data, Power, Signal & Light Transmission

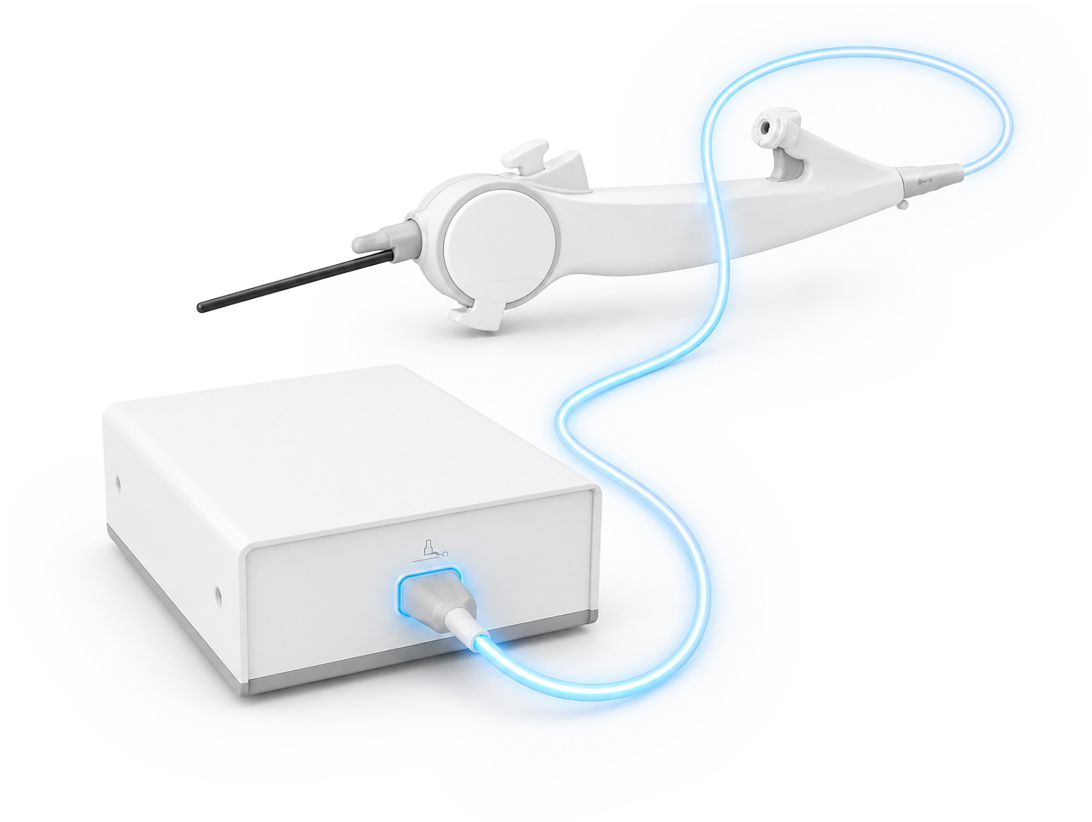


Custom Hybrid Fiber Optic and Electrical Connectors & Cable Assemblies

Combining optical and electrical functionality in a single sterilizable, biocompatible assembly, these custom hybrid assemblies support large-core optical fibers across multiple wavelengths from UV to IR.

The design includes optical fibers for sensing and illumination, low-voltage electrical contacts for EEPROM integration and a durable stainless-steel probe with a sterile cable. Supporting up to 100 sterilization cycles, they are ideal for communication, power, signaling and illumination.

Endoscopes – CCU Connectivity



Video Transmission

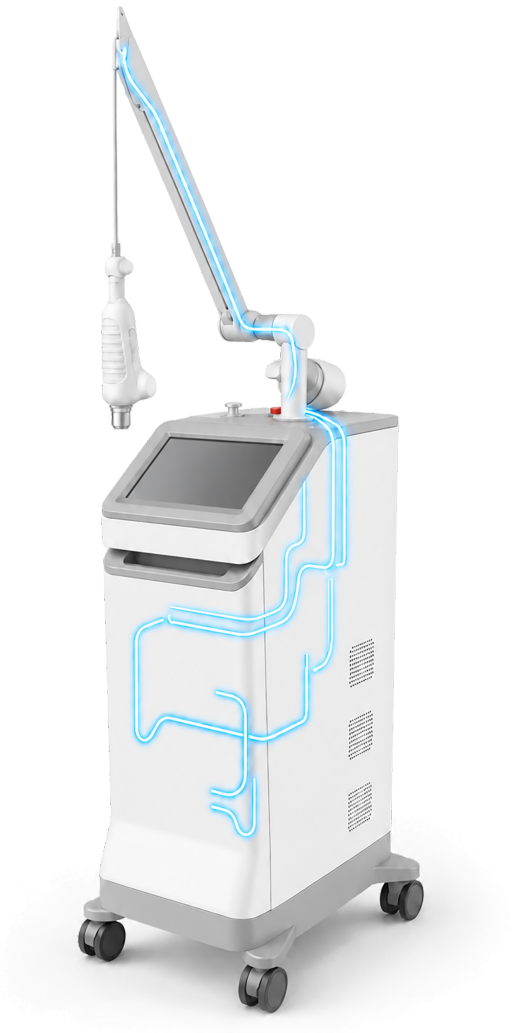


Custom Overmolded Cable Assembly

Purpose-built for endoscope integration, this 6-cable harness features USB-C on one end and PCB mount on the other, with over-molded strain relief for robustness and sealing. It supports 5 V LED and camera power, video up to 200 Mbps, and control deflection under 10 mA, with low EMI throughout.

The assembly is fully customizable - connector types, cable count, length and electrical specifications can all be adapted to match the endoscope's mechanical and electrical design requirements.

Skin Care & Aesthetic Devices – RF Transmission



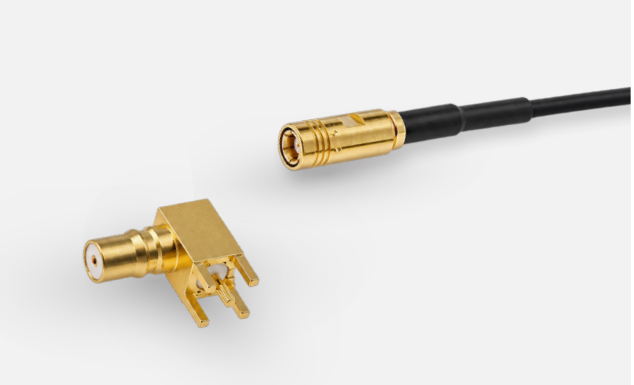
Treatment Mode RF Signal Switching



Radiofrequency Switches

Available in a standard version and the more compact **Quartz** series with surface mount technology, our RF switches, including the 3 GHz **SPDT switch**, offer insertion loss of 0.2 dB or less, isolation of 80 dB or more, an operating temperature range of -40 to +85 °C and a rated life of 10 million cycles via SMA or N connectors. This mechanical longevity minimizes maintenance and downtime, while stable performance across a wide temperature range supports various RF routing needs in cosmetic and surgical device applications. Our Quartz relay series provides a more compact, space-saving option in a surface-mounted solution.

Generator-to-Treatment Head



Small RF Connectors & Assemblies

Radiall's small RF connectors and assemblies include **SMA, SMB, SMP, MCX, MMCX** and **SMC** connectors alongside flexible and semi-rigid cable assemblies in compact, high-density formats. With excellent shielding, MIL-STD-202 compliant robustness and a choice of snap-on, push-on or threaded coupling, they support fully customizable plating and geometry for virtually any application.

Low insertion loss and low EMI interface allow very high level of performances, while tool-free installation make them a dependable fit for every configuration.



Medium RF Connectors & Assemblies

Radiall's medium RF connectors and assemblies cover **BNC** and **N** connector types with fully customizable cable lengths, shielding and over-molding options suited to medical applications.

They deliver low insertion loss for precise RF performance and are rated to 500 or more mating cycles, making them well-suited for repeated handling in clinical environments. Easy installation, stable signal integrity under vibration and solid mechanical construction help minimize system downtime.



High-Power Connectors & Assemblies

Radiall's high-power connectors and assemblies span **HN, 7/16, 4.3-10** and **NEX10** connector types, paired with corrugated 1/2" flexible cable assemblies. They handle up to 1.2 kW at 1 GHz with HN termination, and offer several coupling options.

Engineered for demanding environments, these robust cable assemblies combine IP67/IP68 overmolding with dielectric withstand voltage up to 2 kV, ensuring reliable performance, simplified installation, and reduced maintenance and failure risks.



03

MONITORING

Fetal Monitoring – Transducer Connectivity

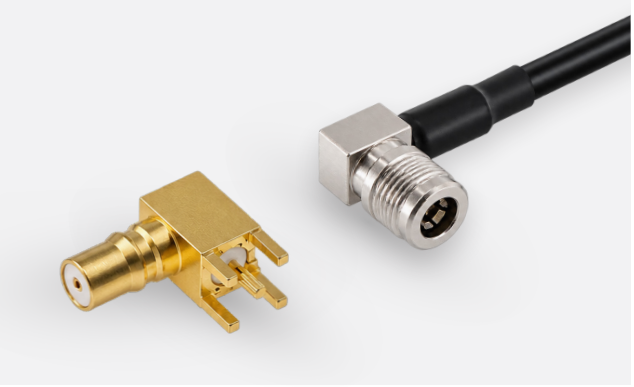
Medical monitoring technologies provide critical, real-time insight into patient health, supporting diagnosis, treatment and ongoing care across a wide range of clinical environments.

Radiall supports next-generation monitoring systems with reliable RF, fiber-optic and interconnect solutions designed to maintain signal integrity, enable accurate data transmission, withstand repeated clinical use, and deliver compact, dependable connectivity for a broad range of patient monitoring applications

Fetal Monitoring – Transducer Connectivity



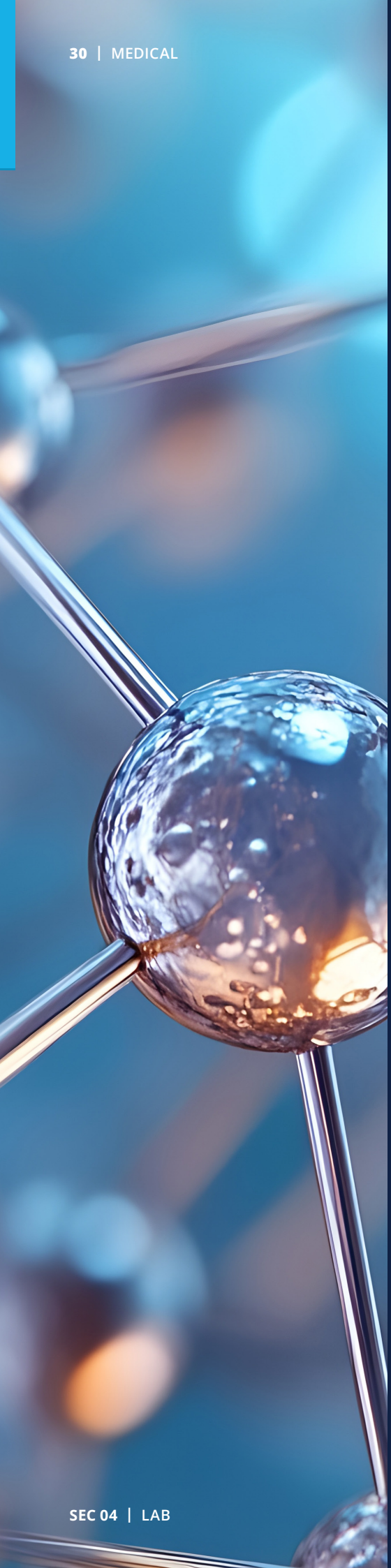
Internal Circuit-to-Antenna Signal Transmission



WQMA Connector

Operating in the DC - 6 GHz frequency range, the **WQMA** coaxial connector is fully waterproof up to 1 meter depth thanks to O-ring and adhesive heat-shrink sealing that holds even when unmated.

That fully sealed design allows patient monitoring during bathing or showering, minimizes contamination risk and paired with a crimped push-pull interface, keeps assembly and maintenance quick and straightforward.



04

LAB

NMR Spectrometer – Magnet-to-Console

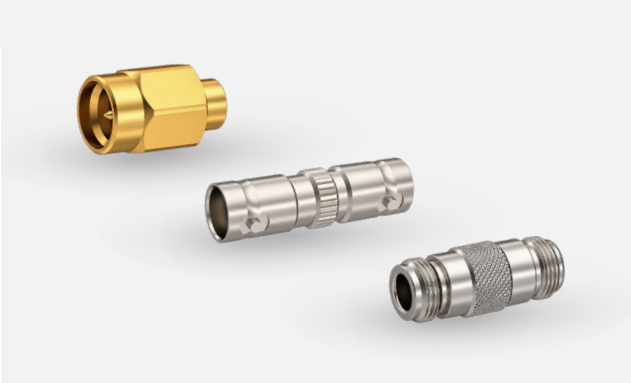
Laboratory technologies play a critical role in research, analysis and discovery, enabling precise measurement and reliable data across a wide range of scientific and clinical applications.

Radiall supports advanced laboratory systems with high-performance RF, fiber optic and interconnect solutions that maintain signal integrity, enable accurate data transmission, support sensitive instrumentation, and deliver reliable connectivity for demanding laboratory and analytical environments.

NMR Spectrometer – Magnet-to-Console



RF Excitation & Response Signal Transmission



RF Patch Cords & Connectors

Available in **SMA, SMB, BNC, N** and **7/16 DIN** interfaces, this broad range of RF patch cord connectors delivers excellent shielding, mechanical durability and multiple coupling options including snap-on, push-on and threaded designs.

Fully configurable cable assemblies with customizable plating, cable types, shielding and overmolding provide reliable RF performance for laboratory, test and other demanding applications where signal integrity and durability are critical.



05

WEARABLES

Cochlear Implant – Processor-to-Transmitter

Wearable medical technologies support continuous care, communication and quality of life by bringing advanced functionality closer to the patient in compact, everyday formats.

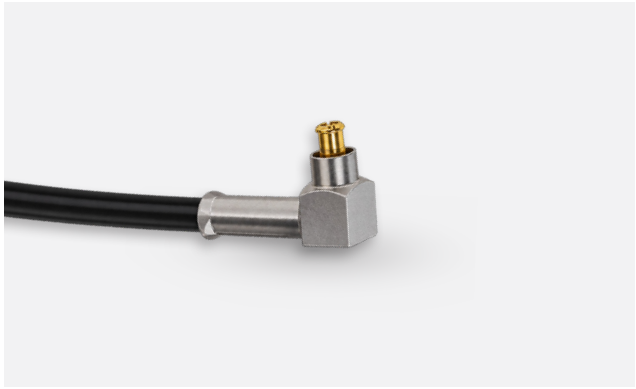
Radiall supports next-generation wearable devices with miniaturized RF and interconnect solutions designed to maintain signal integrity, enable reliable data transmission, withstand repeated daily use, and deliver dependable connectivity in space-constrained medical applications.

Cochlear Implant – Processor-to-Transmitter



Processor-to-Transmitter Interface





Moebius Connector

The **Moebius** solder-to-cable mount jack and plug receptacle operates from DC to 6 GHz in an ultra-miniature, lightweight form factor rated to 25,000 mating cycles. Its rotatable connector interface sits between the processor and cable, built to handle daily user movement and repeated connections without stressing the joint.

A snap-lock mechanism ensures secure mechanical retention throughout, making it a safe and durable choice for wearable and home healthcare devices used by adults and children alike.

MC-Card Connector

Available as a right-angle crimp-to-cable mount plug and jack receptacle, the **MC-Card** operates from DC to 8 GHz with up to 5,000 mating cycles, more than 10,000 rotation cycles and snap-lock retention in an ultra-miniature, lightweight package.

The right-angle form factor keeps cable routing compact, and the design has already been proven with leading medical device customers.



06

TEST & MEASUREMENT

T&M Equipment for Medical Devices

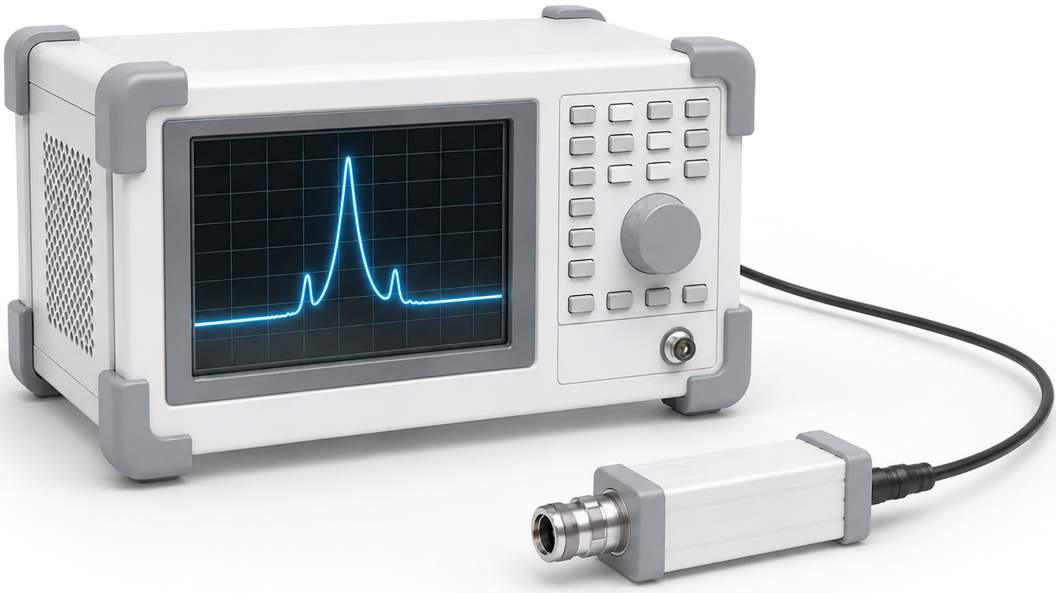
Test & Measurement systems are essential for verifying the performance, accuracy and safety of medical devices during their development, production and clinical use. Radiall delivers innovative RF and microwave interconnect solutions for advanced Test & Measurement equipment, ensuring exceptional signal integrity through low loss, high-frequency technologies.

From high-performance RF connectors to microwave components and customized interconnects, Radiall helps deliver reliable, repeatable and precise measurements.

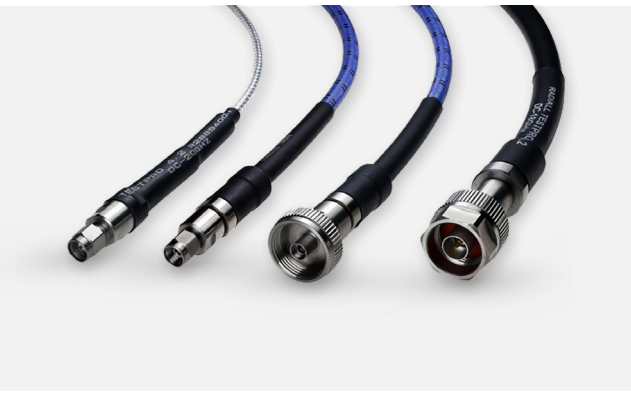
APPLICATIONS

T&M EQUIPMENT FOR MEDICAL DEVICES	
Test & Calibration Connections	TestPro Cable Assemblies
	SHF Cable Assemblies
	Banana Plugs
RF Routing, Control & Signal Stabilization	RF Switches
	Attenuators & Terminations
	RF Adapters
	Platinum Range of Products

T&M Equipment for Medical Devices



Test & Calibration Connections



TestPro Cable Assemblies

Covering a large range of TestPro products with connector interfaces including **SMA, SMA 3.5, SMA 2.9, SMA 2.4, SMA 1.85, NMD 2.9, N, TNC** and **PC7**, these cable assemblies operate from DC to 67 GHz with up to 5,000 mating cycles and over 20,000 flex cycles per MIL IEC966-1.

Phase and loss stability support long calibration intervals. Low-profile connector configurations, TVAC options and phase-matching capabilities further ensure consistent signal quality, reduced maintenance and broad compatibility across multiple connector interfaces.



SHF Cable Assemblies

These SHF cable assemblies operate up to 40 GHz and support a wide range of connector series, including **SMPM, SMP, SMP-LOCK, SSMA, MCX, SMA, SMA 2.9, SMA 3.5, QMA, QN, BMA, TNC/18,** and **N/18.** They offer phase-matching options along with armored or lightweight airframe cable configurations.

This combination of durability and flexibility makes them well-suited for test equipment used in high-resolution imaging applications, as well as compact installations including small enclosures and rotating assemblies.



Banana Plugs

Available in 2 mm, 4 mm and adapter formats, these banana plugs deliver excellent electrical conductivity, very low contact resistance and robust contact point pressure built to withstand a high number of mating cycles.

Standards-compatible with existing lab tools, they provide consistent and reliable power or signal transfer, making them a practical and durable fit for everyday T&M bench use.

T&M Equipment for Medical Devices

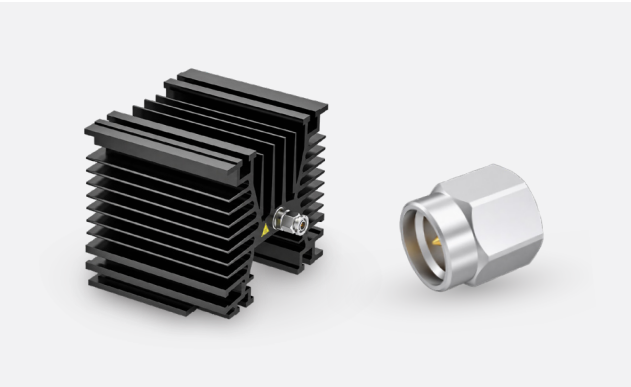
RF Routing, Control & Signal Stabilization



RF Switches

Covering a comprehensive range of **SPDT, DPDT, DP3T** and **SPnT** configurations including the high-reliability **RAMSES** patented modular technology, these RF switches operate up to 67 GHz with terminated and unterminated versions, smallest subminiature SPnT options and TVAC thermal vacuum capability for more than 10 million cycles.

That longevity is critical for reproducible results in sensitive T&M applications, and the very large choice of microwave products and configurations means there is an option suited to virtually any test setup.



Attenuators & Terminations

This large range of attenuators and terminations is compatible with a broad selection of connector types including **SMA 2.92, SMA 1.85** and **N**, operating up to 67 GHz with power handling from 1 W to 150 W for attenuators and 0.5 W to 1,000 W for terminations, fully customizable on demand for design, frequency range and power handling.

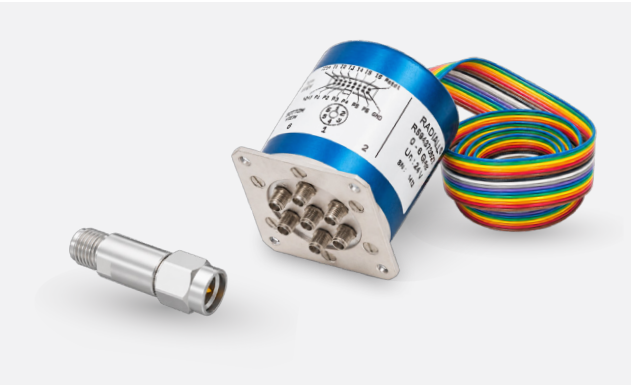
French manufacturing ensures quality control, reactivity and traceability, and a complete catalog of standard, codified products support fast and easy sourcing.



RF Adapters

Available in-series and between-series configurations, these precision RF adapters support push-on or quick-disconnect coupling and cover a wide range of mounting styles including straight, bulkhead, panel, flange mount, press-in, right-angle, sealed and hermetic.

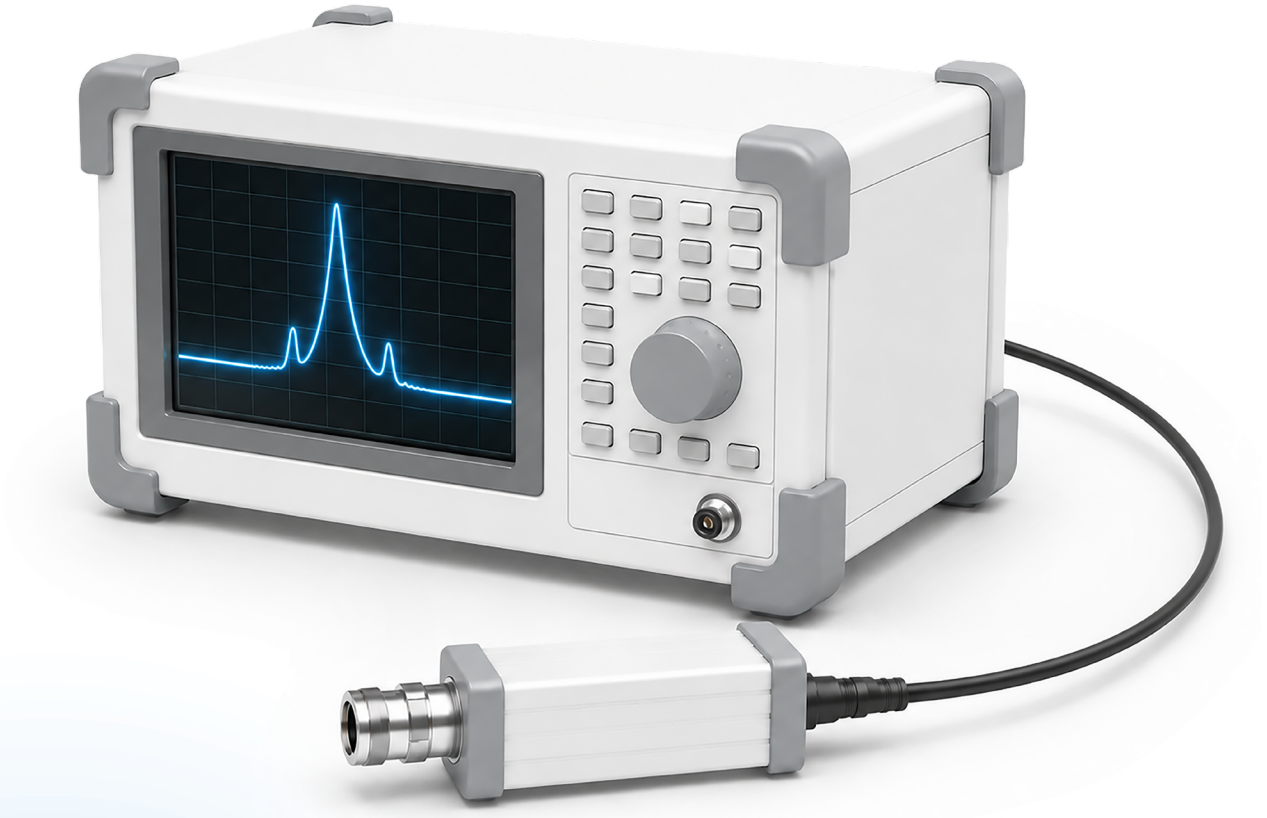
The breadth of options gives T&M engineers the flexibility to interface between virtually any connector type while maintaining the signal integrity and reliability that precision test environments require.

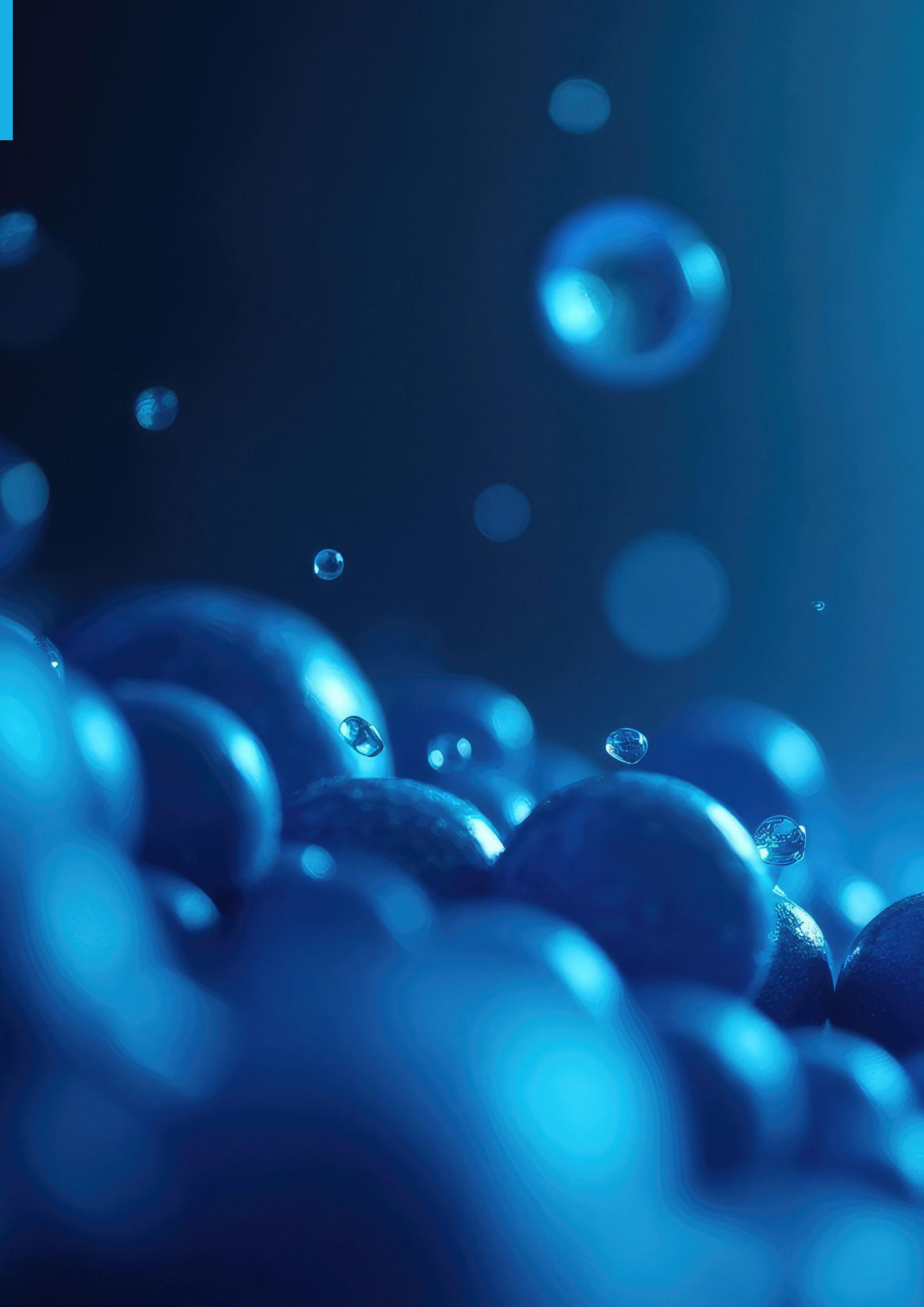


Platinum Range of Products

The Platinum range covers a comprehensive selection of **SPDT, DPDT, SP4T** and **SP6T** switches alongside attenuators, terminations, adapters and probes, all built around very low impedance with a guaranteed insertion loss of 0.03 dB and switch performance rated to over 10 million cycles.

Lower VSWR means better impedance matching and reduced signal reflections across high-performance RF setups, and the switch longevity is particularly valuable for T&M applications where reproducible results in sensitive, repeated test routines are non-negotiable.







One Partner.
Every Connection.

Trusted by customers worldwide to
support critical medical applications.

Connect with RADIALL

In a world where everything is connected, connect with Radiall.
The most meaningful connections go beyond technology. They begin with people, grow through collaboration, and lead to ideas that shape what's next.

At Radiall, connection means understanding your challenges, sharing our expertise, and working together to turn possibilities into progress. It's about building relationships grounded in trust, curiosity, and a shared commitment to innovation.

Because the strongest solutions don't happen in isolation. They're created when different perspectives, experiences, and capabilities come together.

Let's connect. And see what we can achieve together.
www.radiall.com





Appendix

Product Name	Part Number	Page Number
SMPCOM F RA SRT NMGT	R222900357	12
SMPCOM M STR NMG	R222941324	12
SMPCOM F RA ST NMG TCE2H2 C100	R222900417	12
SMB F STR F CR 5/50D C100	R114088027	14
SMACOM M STR CR 5/50D C100	R124076323	14
SMPCOM F RA CR 2.6/50S C100	R222900300	14
BNC M STR CR 5/50D C100	R141083000	14
BNC FF STR BHD C100	R141720000	14
N M STR CR 5/50D C50	R161083000	14
HN 7000 UG 59 D/U FI DR10/50	R176019000	15
7/16 FF BHDP C30	R185730020	15
STR 7/16-1/2"ANL-STR HN LG=14 M	R296703262	15
SWITCH SINGLE-POLE DOUBLE-THROW (SPDT) 3 GHZ	R570xxxxxx, Ex: R570013000	15
SWITCH SINGLE-POLE DOUBLE-THROW (SPDT) 18 GHZ	R570xxxxxx, Ex: R570413000	15
QUARTZ RELAY	R516xxxxxx	15
LC CONNECTOR	F727xxxxx [1]	15
C060 HORN ANTENNA – HORIZONTAL POLARIZATION	R380846002	16
C060 HORN ANTENNA – VERTICAL POLARIZATION	R380846102	16
MQHV 24010 M STR5/50	R321007000	17
SHV F STR CL 5/50	R317005000	17
FF STR BHDP	R316754000	17
V CVBS 02R 20-29P F16 S096	VS232009	17
V CVBS 02R 20-19P F16 S096	VS232008	17
LC, SC & MTRJ CONNECTOR & ASSEMBLIES	Custom Only	20
ST CONNECTOR & ASSEMBLIES	F709xxxxx [1]	21
FEMALE HARNESS MIR 85 MM C64	R299992200	22
MALE HARNESS MIR 95 MM C64	R299992202	22
BNC F SQF C100	R141407000	22
BNC F RA BHDP SP C100	R141680000	22
STR RECEPT 2 POGO PIN C360	R299992210	23
STR RECEPT 5 POGO PIN C360	R299992209	23
SMA M STR SD .141 C100	R125055000	31
BNC FF STR C100	R141704000	31
N FF STR	R161705000W	31
SMB F BHD KMC9	R114553000W	31
MCCARD M RA CR 1/50S C100	R199005350	33
MCCARD F STR PCB C100	R199005560	33
MCCARD M RA CR 1/50S C100	R199005320	33
MCCARD F STR PCB C100	R199005570	33
MOEB F STR PIN C100	R199006433	33
MOEB M STR PCB PIN C100	R199006453	33
MOEB M STR PIN C100	R199006503	33
NETWORK MEASUREMENT DIVISION (NMD)	R191962010	36

1. (Connector) + Custom Assemblies

Product Name	Part Number	Page Number
RAMSES SPDT SWITCHES	R570xxxxxx	38
RAMSES DPDT SWITCHES	R577xxxxxx	38
RAMSES DP3T SWITCHES	R585xxxxxx	38
RAMSES SPnT SWITCHES	R573xxxxxx, R574xxxxxx	38
TERMINATION	R404N0xxxx, Ex: R404N05000	38
ATTENUATOR	R4221xx040, Ex: R422110040	38
PLATINUM RANGE OF SPDT, DPDT, SP4T, SP6T RF SWITCHES	R593xxxxxx, R594xxxxxx, R595xxxxxx	38
PLATINUM RANGE OF ATTENUATORS	R413xxxxxx, R414xxxxxx	38
PLATINUM RANGE OF TERMINATIONS	R402xxxxxx, R403xxxxxx	38

SIMPLIFICATION *is our* **INNOVATION**

We advance the design and engineering process for innovators, ground breakers and pioneers of technology. We reduce weight, improve durability and streamline installation to provide leading-edge connectors that drive product performance.

AREA OFFICES LOCAL CONTACTS

EUROPE	ADDRESS	PHONE	FAX	EMAIL
FINLAND	**Radiall Finland** PO Box 202, 90101, Oulu	+358407522412		infofi@radiall.com
FRANCE	**Radiall SA** 25 Rue Madeleine Vionnet, 93300, Aubervilliers	+33149353535		info@radiall.com
GERMANY	**Radiall GmbH** Carl-Zeiss-Straße 10, 63322, Rödermark	+49607491070	+496074910710	infode@radiall.com
ITALY	**Radiall Italia S.R.L.** Corso Europa, 292, 20017 Rho MI, Italy	+39024885121	+390248843018	infoit@radiall.com
NETHERLANDS	**Radiall Nederland BV** Hogebrinkerweg 15b, 3871, KM Hoevelaken	+31332534009	+31332534512	infonl@radiall.com
SWEDEN	**Radiall AB** Sollentunavägen 63, 191 40 Sollentuna	+4684443410		infose@radiall.com
UNITED KINGDOM	**Radiall Ltd.** Profile West, 950 Great West Rd., Brentford, Middlesex TW8 9ES	+441895425000	+441895425010	infouk@radiall.com
ASIA				
CHINA	**Shanghai Radiall Electronics Co., Ltd.** No.688 Hui Fang Road, Shanghai, China, 201806	+862166523788	+862166521177	infosh@radiall.com
HONG KONG	**Radiall Electronics (Asia) Ltd.** Room A, 16/F., Ford Glory Plaza, 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong	+85229593833	+85229592636	infohk@radiall.com
INDIA	**Radiall India Pvt. Ltd.** 25D, Phase 2, Peenya Industrial Area, Bengaluru 560 058	+918028395271	+918028397228	infoin@radiall.com
JAPAN	**Nihon Radiall K.K.** Sawada Building 8F, Shibuya-ku, Tokyo 150-0011	+81364274455	+81364274456	infojp@radiall.com
AMERICAS				
USA & CANADA	**Radiall USA, Inc.** 8950 South 52nd Street, Ste. 401 Tempe, AZ 85284	+14806829400	+14806829403	infousa@radiall.com

GLOBAL PRESENCE

Australia · Austria · Belgium · Brazil · Czech Republic · Denmark · Estonia · Greece · Hungary · Indonesia · Israel · Korea · Latvia · Lithuania
Malaysia · Norway · Philippines · Poland · Portugal · South Africa · Singapore · Spain · Switzerland · Taiwan · Thailand · Turkey · Vietnam