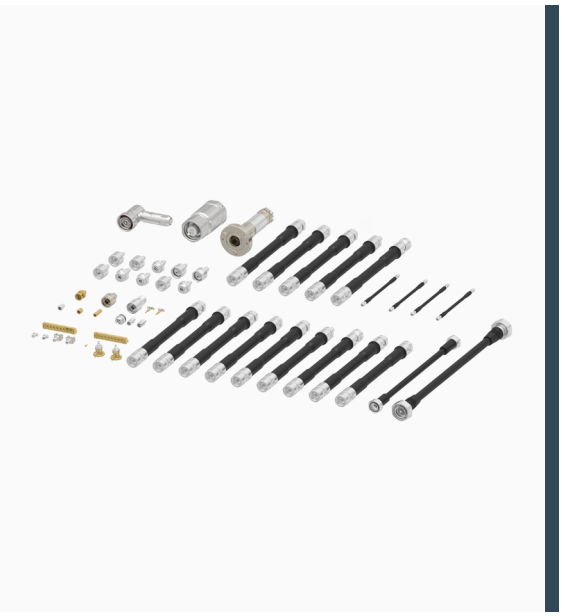


# RF CONNECTORS AND CABLE ASSEMBLIES FOR TESTING AND MEASUREMENT APPLICATIONS

TE Connectivity's (TE) high frequency RF connectors, adaptors, termination and testing cable assemblies support up to 110 GHz and can provide better performance for test & measurement and other demanding applications.

This extended RF product line is one of the highest performing in the industry, with low insertion loss and VSWR, and is compatible with other RF vendors. We make it easy to get these products faster, with competitive pricing and faster delivery.

With a standard product offering and custom capabilities, TE can offer high frequency RF products to meet many customer needs. Our broad RF portfolio allows us to provide a range of RF solutions to our customers.

## PRODUCT FACTS

**Outstanding Performance**

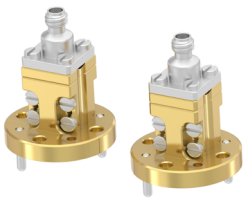
- High frequency performance up to 110 GHz
- Low insertion loss and VSWR
- Amplitude and phase stability

**Competitive Price & Fast Delivery**

- Our engineering and manufacturing expertise along with our global footprint enable competitive pricing and fast delivery

**Broad Portfolio**

- Standard portfolio of N-type, SMA-type, BNC, mini-SMB, 3.5mm, 2.92mm, 2.40mm ,1.85mm, and 1.0mm RF connectors, adaptors, termination and testing cable assemblies available
- Connectors and cable assemblies can be customized to meet many customer needs

| | |
|---|---|
|  | **RF termination**<br>• Industry leading electrical performance (VSWR, insertion loss) for 2.92mm, SMA-type, N-Type, BNC and mini-SMB termination<br>• Compact size |
|  | **Blind mate adaptors**<br>• Screw-on connection<br>• Quicker connection to improve testing efficiency and to help save cost<br>• Floating design for alignment<br>• Rated to 20,000 cycles<br>• Industry leading signal integrity (SI) performance for 2.40mm, 2.92mm, SMA-type, N-type, BNC and testing probes |
|  | **Solderless connectors**<br>• Multi-port SMPM RF product<br>• Up to 70 GHz performance<br>• Customer can assemble connectors to PCB directly without soldering process to help to save development and production time<br>• Industry leading SI performance for SMPM, 2.40mm, 2.92MM, and SMA-type solderless connectors<br>• Vertical and edge launch types.<br>• Rated to 1,000 cycles |
|  | **VNA testing cable assemblies**<br>• Used between testing benchtop (such as VNA) and DUT, stable phase and amplitude<br>• Industry leading SI performance for 1.0mm, 1.85mm, 2.40mm, 3.5mm testing cable assemblies<br>• Ruggedized cable assemblies have improved mechanical reliability |
|  | **Waveguide connectors**<br>• Industry leading SI performance for 1.0mm waveguide connectors<br>• Provide ultra-low loss for signal conversion between rectangular waveguide and coaxial<br>• Rated to 1,000 cycles |



**VNA adaptors**

- Can be used to connect with VNA port to protect VNA
- Can be used to change the VNA port to normal testing adaptors and testing cable assemblies
- Industry leading SI performance for 1.85mm, 2.40mm, 2.92mm VNA adaptors



**High power connectors, Low passive intermodulation (PIM) cable assemblies**

**Connectors**

- Outstanding electrical performance
- Greater locking torque

**Cable assemblies**

- Outstanding electrical performance(VSWR and Low PIM)
- The tail is injection molded to have better reliability

## PART NUMBERS

| Part Number | Description | Product Type |
|---|---|---|
| 2441517-1 | 2.92mm MALE TERMINATION | RF termination |
| 2441518-1 | SMA PLUG 50 OHM FOR LOAD | RF termination |
| 2441519-1 | N MALE TERMINATION | RF termination |
| 2441520-1 | BNC MALE TERMINATION 75 ohm | RF termination |
| 2441521-1 | MINI-SMB 75OHMS MALE TERMINATOR | RF termination |
| 2441538-1 | SMA FEMALE TO FLOATING BLIND MATE SMA MALE ADAPTER, 50Ω | Blind mate adaptors |
| 2441539-1 | 2.92mm FEMALE TO 2.92mm MALE (SLIDE-ON) ADAPTOR | Blind mate adaptors |
| 2441542-1 | 2.4mm FEMALE TO 2.4mm MALE (SLIDE-ON) ADAPTOR | Blind mate adaptors |
| 2441543-1 | N FEMALE TO QUICK LOCK N MALE ADAPTER, 50Ω | Blind mate adaptors |
| 2441534-1 | ML51 J TO RF SWITCH 6 ADAPTOR | Blind mate adaptors |
| 2441535-1 | ML51 J TO RF SWITCH 6 ADAPTOR | Blind mate adaptors |
| 2441545-1 | SMA FEMALE S/T FOR PCB MOUNTING,2 HOLES FLANGE ,50Ω | Solderless connectors |
| 2441546-1 | 2.92mm FEMALE S/TFIELD REPLACEABLE,50Ω | Solderless connectors |
| 2441872-1 | 2.4mm FEMALE S/T CONNECTOR WITH END LAUNCH, 50Ω | Solderless connectors |
| 2441873-1 | 2.92mm FEMALE S/T CONNECTOR WITH END LAUNCH, 50Ω | Solderless connectors |
| 2441483-1 | SSMP SB MALE S/T 8-PORT EDGE LAUNCH,50Ω | Solderless connectors |
| 2441484-1 | SSMP FEMALE TO SSMP FEMALE ADAPTOR,50Ω | Solderless connectors |
| 2441485-1 | SSMP FD MALE S/T 8-PORT EDGE LAUNCH,50Ω | Solderless connectors |
| 2441515-1 | WR10-1.0KWAVEGUIDE COAXIAL CONVERTER | Waveguide connectors |
| 2441516-1 | WR12-1.0K WAVEGUIDE COAXIAL CONVERTER | Waveguide connectors |
| 2441390-1 | 2.4mm FEMALE TO 3.5mm FEMALE S/T NMD ADAPTOR ,50 Ω | VNA adaptors |
| 2441417-1 | 2.4mm FEMALE TO 3.5mm MALE S/T NMD ADAPTOR ,50 Ω | VNA adaptors |
| 2441440-1 | 2.4mm FEMALE TO 2.92mm MALE S/T NMD ADAPTOR ,50 Ω | VNA adaptors |

## RF CONNECTORS AND CABLE ASSEMBLIES FOR TESTING AND MEASUREMENT APPLICATIONS

| Part Number | Description | Product Type |
|---|---|---|
| 2441445-1 | 2.4mm FEMALE TO 2.92mm FEMALE S/T NMD ADAPTOR ,50 Ω | VNA adaptors |
| 2441448-1 | 2.4mm FEMALE TO 2.4mm MALE S/T NMD ADAPTOR ,50 Ω | VNA adaptors |
| 2441449-1 | 2.4mm FEMALE TO 2.4mm FEMALE S/T NMD ADAPTOR ,50 Ω | VNA adaptors |
| 2441450-1 | 1.85mm FEMALE TO 1.85mm FEMALE S/T NMD ADAPTOR ,50 Ω | VNA adaptors |
| 2441451-1 | 1.85mm MALE TO 1.85mm FEMALE S/T NMD ADAPTOR ,50 Ω | VNA adaptors |
| 2441452-1 | 2.92 MALE TO 2.92mm FEMALE S/T NMD ADAPTOR ,50 Ω | VNA adaptors |
| 2441453-1 | 2.92 FEMALE TO 2.92mm FEMALE S/T NMD ADAPTOR ,50 Ω | VNA adaptors |
| 1-2441454-0 | NMD 1.85mm FEMALE SIT TO NMD 1.85mm MALE SIT TEST CABLE 1000mm | VNA testing cable assemblies |
| 1-2441456-0 | NMD 1.85mm FEMALE SIT TO 1.85mm FEMALE SIT TEST CABLE 1000mm | VNA testing cable assemblies |
| 1-2441460-0 | NMD 2.4mm FEMALE S/T TO NMD 2.4mm MALE S/T TEST CABLE 1000mm | VNA testing cable assemblies |
| 1-2441463-0 | NMD 2.4mm FEMALE S/T TO 2.4mm FEMALE S/T TEST CABLE 1000mm | VNA testing cable assemblies |
| 1-2441466-0 | NMD 2.4mm FEMALE S/T TO NMD 3.5mm MALE S/T TEST CABLE 1000mm | VNA testing cable assemblies |
| 1-2441470-0 | NMD 2.4mm FEMALE S/T TO 3.5mm MALE S/T TEST CABLE 1000mm | VNA testing cable assemblies |
| 1-2441474-0 | NMD 2.4mm FEMALE S/T TO N MALE S/T TEST CABLE 1000mm | VNA testing cable assemblies |
| 2441454-1 | NMD 1.85mm FEMALE SIT TO NMD 1.85mm MALE SIT TEST CABLE 600mm | VNA testing cable assemblies |
| 2441456-1 | NMD 1.85mm FEMALE SIT TO 1.85mm FEMALE SIT TEST CABLE 600mm | VNA testing cable assemblies |
| 2441460-1 | NMD 2.4mm FEMALE S/T TO NMD 2.4mm MALE S/T TEST CABLE 600 mm | VNA testing cable assemblies |
| 2441463-1 | NMD 2.4mm FEMALE S/T TO 2.4mm FEMALE S/T TEST CABLE 600mm | VNA testing cable assemblies |
| 2441466-1 | NMD 2.4mm FEMALE S/T TO NMD 3.5mm MALE S/T TEST CABLE 600mm | VNA testing cable assemblies |
| 2441470-1 | NMD 2.4mm FEMALE S/T TO 3.5mm MALE S/T TEST CABLE 600mm | VNA testing cable assemblies |
| 2441474-1 | NMD 2.4mm FEMALE S/T TO N MALE S/T TEST CABLE 600mm | VNA testing cable assemblies |
| 1-2441478-0 | 1.0mm MALE S/T TO 1.0mm MALE S/T FOR TEST CABLE WITH 1M | VNA testing cable assemblies |
| 2441478-1 | 1.0mm MALE S/T TO 1.0mm MALE S/T FOR TEST CABLE WITH 300mm | VNA testing cable assemblies |
| 2441478-2 | 1.0mm MALE S/T TO 1.0mm MALE S/T FOR TEST CABLE WITH 500mm | VNA testing cable assemblies |
| 2441478-3 | 1.0mm MALE S/T TO 1.0mm MALE S/T FOR TEST CABLE WITH 600mm | VNA testing cable assemblies |
| 2441529-1 | 4.3-10 MALE S/T TO 4.3-10 MALE S/T FOR M5458H-3/8 SF CABLE | Connectors for low PIM cable assemblies |
| 2441531-1 | 7-16 MALE S/T TO 7-16 MALE S/T FOR 1/2 SF CABLE | Connectors for low PIM cable assemblies |
| 2441522-1 | 7/16 Male(Plug) R/A FOR RG-213/RG-214/RG-393 CABLE | Low PIM cable assemblies |
| 2441524-1 | LC Male(Plug) S/T CRIMP FOR HPL-1200 CABLE,50Ω | Low PIM cable assemblies |
| 2441708-1 | EIA 7/8′ S/T CLAMP CONNECTOR FOR SFT-600 CABLE,50Ω | Low PIM cable assemblies |

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