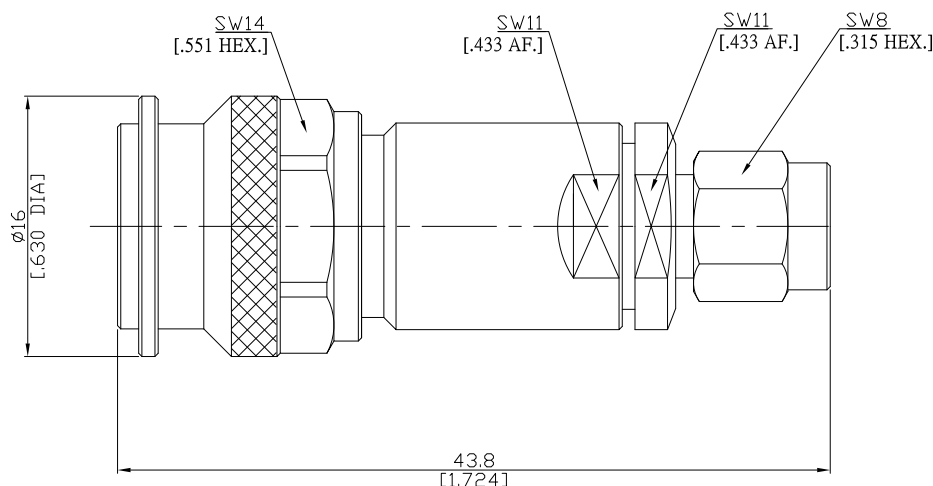


SMA plug (male) / Precision TNC plug (male)  
Straight adaptor DC-18GHz VSWR 1.20

**AD-A1PCT15A / 9XX-9XX**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

SMA according to

IEC 60169-15; MIL-STD-348A/310

Precision TNC according to

IEC 60169-26; MIL-STD-348A/313

**Electrical Data**

Impedance

50  $\Omega$

Frequency

DC to 18 GHz

VSWR (Return Loss)

$\leq 1.20$  ( $\geq 20.8$  dB)

Insertion Loss

$\leq 0.05 \times \sqrt{F}$  (GHz) dB

Insulation resistance

$\geq 5$  G $\Omega$

Center contact resistance

$\leq 3.0$  m $\Omega$ , SMA side;

$\leq 1.5$  m $\Omega$ , Precision TNC side

Outer contact resistance

$\leq 2.0$  m $\Omega$ , SMA side;

$\leq 1.0$  m $\Omega$ , Precision TNC side

Test voltage

1000 V rms

Working voltage

480 V rms

RF-leakage

$\geq 90$  dB up to 1 GHz

Dielectric Withstanding Voltage

1000 VRMS

RF High Potential Withstanding Voltage:

670 VRMS

**Material And Plating**

| Piece Parts (SMA)           | Material         | Plating                                                                          |
|-----------------------------|------------------|----------------------------------------------------------------------------------|
| Centre contact              | Beryllium Copper | Gold plating, 3 pinch<br>(Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body                        | Stainless Steel  | Passivated                                                                       |
| Insulator                   | PTFE             |                                                                                  |
| Gasket                      | Silicone rubber  |                                                                                  |
| Coupling nut                | Stainless Steel  | Passivated                                                                       |
| Piece Parts (Precision TNC) | Material         | Plating                                                                          |
| Centre contact              | Beryllium Copper | Gold plating, 3 pinch<br>(Non-magnetic nickel-phosphorus underplating, 80 pinch) |
| Body                        | Stainless Steel  | Passivated                                                                       |
| Insulator                   | PTFE             |                                                                                  |
| Gasket                      | Silicone rubber  |                                                                                  |
| Coupling nut                | Stainless Steel  | Passivated                                                                       |

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev.:  
Date: JUL/16/2021

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SMA plug (male) / Precision TNC plug (male)  
Straight adaptor DC-18GHz VSWR 1.20

**AD-A1PCT15A / 9XX-9XX**

**Mechanical Data**

|                                   | SMA side           | Precision TNC side |
|-----------------------------------|--------------------|--------------------|
| Coupling mechanisms               | Screw-lock         | Screw-lock         |
| Mating cycles                     | min. 500           | min. 500           |
| Center contact captivation: axial | ≥ 27 N             | ≥ 27 N             |
| Coupling test torque              | max. 1.7 Nm        | max. 1.7 Nm        |
| Recommended torque                | 0.80 Nm to 1.10 Nm | 0.46 Nm to 0.69 Nm |

**Environmental Data**

|                     |                                 |
|---------------------|---------------------------------|
| Temperature Range   | -65°C to +165°C                 |
| Thermal shock       | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion           | MIL-STD-202, Meth. 101, Cond. B |
| Vibration           | MIL-STD-202, Meth. 204, Cond. D |
| Shock               | MIL-STD-202, Meth. 213, Cond. I |
| Moisture resistance | MIL-STD-202, Meth. 106          |
| RoHS                | compliant                       |

**Packing**

Single or 100