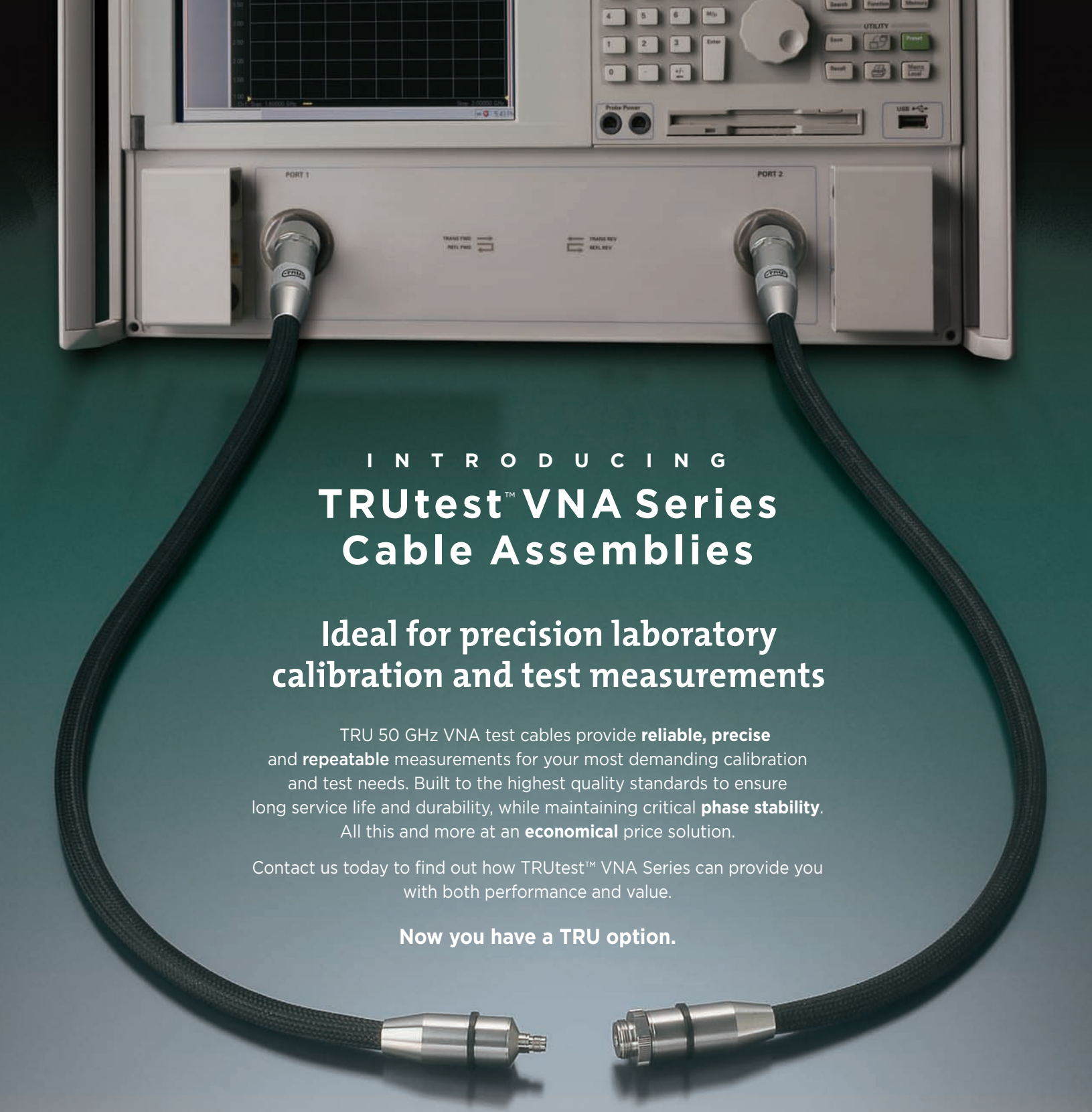



I N T R O D U C I N G

# TRUtest™ VNA Series Cable Assemblies

## Ideal for precision laboratory calibration and test measurements

TRU 50 GHz VNA test cables provide **reliable, precise** and **repeatable** measurements for your most demanding calibration and test needs. Built to the highest quality standards to ensure long service life and durability, while maintaining critical **phase stability**. All this and more at an **economical** price solution.

Contact us today to find out how TRUtest™ VNA Series can provide you with both performance and value.

**Now you have a TRU option.**

TRU®

a division of WINCHESTER ELECTRONICS

TRU Corporation • Peabody, MA 01960 USA • 1 800 262-9878 • (1 800 COAX-TRU) • 978 532-0775

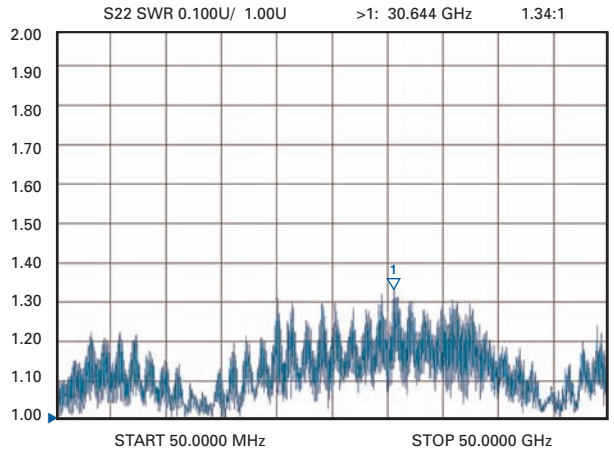
**trucorporation.com**

## TRUtest™ VNA Cable Specifications

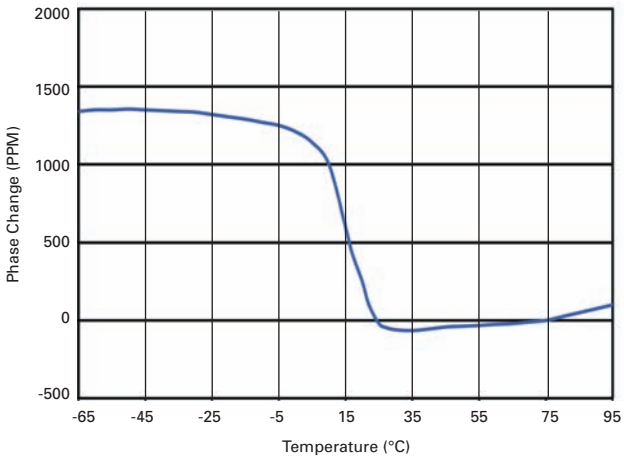
| | |
|---|---|
| Operating Frequency | 50.0 GHz |
| Impedance | 50 Ohms nominal |
| Velocity of Propagation | 78% nominal |
| VSWR (maximum) | 1.35:1 (0.05-26.5 GHz)<br>1.45:1 (26.5-50 GHz)<br>See graph for typical performance |
| Attenuation (maximum) | 0.79 dB/ft + 0.35 @ 18 GHz<br>0.99 dB/ft + 0.50 @ 26.5 GHz<br>1.44 dB/ft + 0.70 @ 50 GHz |
| Shielding Effectiveness | > -90 dB |
| Crush Resistance | 800 lbf/in (143 kgf/cm) |
| Phase vs. Flexure | See graph for typical performance |
| Amplitude vs. Flexure | See graph for typical performance |
| Minimum Bend Radius | 2.25 inch (57,2 mm) |
| Temperature | 23 +/- 5°C (laboratory environment) |
| Phase vs. Temperature | <1,500 PPM, see graph |

### Typical VSWR

NMD female to 2.4 mm female
25 inches (635 mm) long

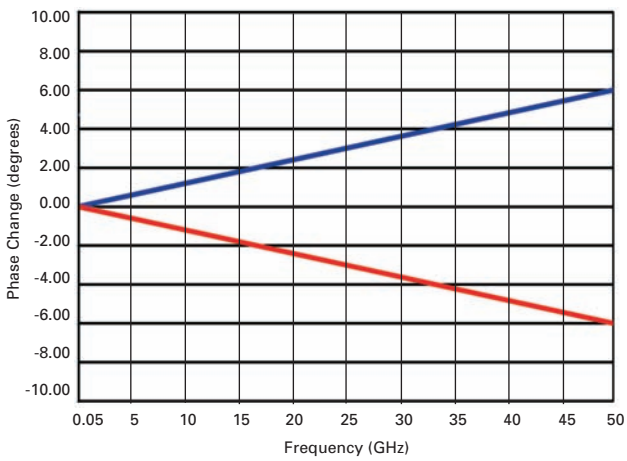



### Typical Phase vs. Temperature




### Phase Change vs. Flexure

Maximum phase change vs. flex 180 degrees (U-shape)
around 2.25 inch radius




### Amplitude Change vs. Flexure

Maximum amplitude change vs. flex 180 degrees (U-shape)
around 2.25 inch radius