

PAGE 1/1

ISSUE **12/07/2021**

SERIES **TestPro VNA Series**

PART NUMBER **VB01621610635ZT**

All dimensions are in mm  
For more details, please see connectors TDS

Armored VNA cable - 50,000 flexlife

Phase Stability ( $\pm$ degree @ 67 GHz): 4.5 Typ. / 8.5 Max.  
Amplitude Stability (dB @ 67 GHz): 0.02 Typ. / 0.1 Max.



## DESIGNATION

|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| Cable           | <b>VNA cable - P/N - VNA cable type VB</b>                      |
| Connector Left  | <b>1.85 mm - NMD female - Stainless steel - P/N: R327920031</b> |
| Connector Right | <b>1.85 mm - NMD male - Stainless steel - P/N: R327900051</b>   |
| Assembly Length | <b>635 mm / 25.00 inch (tolerance = <math>\pm</math> 2%)</b>    |
| Assembly Weight | <b>273.07 gr / 9.63 oz (tolerance = <math>\pm</math> 5%)</b>    |

## ELECTRICAL CHARACTERISTICS

|                                 |                                                                                                                                                                                                   |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Characteristic impedance        | <b>50 Ohms</b>                                                                                                                                                                                    |
| Max operating frequency         | <b>67.0 GHz</b>                                                                                                                                                                                   |
| Assembly Typ Insertion Loss     | <b>4.39 dB (at 20 °C, at 67.0 GHz )</b>                                                                                                                                                           |
| Assembly Typ VSWR               | <b>1.45 (at 67.0 GHz )</b>                                                                                                                                                                        |
| Assembly Max. Insertion Loss    | <b>5.09 dB (at 20 °C, at 67.0 GHz )</b>                                                                                                                                                           |
| Assembly Max VSWR               | <b>1.50 (at 67.0 GHz )</b>                                                                                                                                                                        |
| Assembly Max Return Loss        | <b>14.0 dB (at 67.0 GHz )</b>                                                                                                                                                                     |
| Dielectric withstanding voltage | <b>500 V</b>                                                                                                                                                                                      |
| Insulation resistance           | <b>5000 M.Ohms</b>                                                                                                                                                                                |
| Other                           | <b>Typical amplitude stability (dB) 0,01 @ 50GHz / 0,02 @ 67GHz</b><br><b>Typical phase stability 1,5° @50GHz / 4,5° @ 67GHz</b><br><b>Note: Max IL are indicative only when superior to 40dB</b> |

## MECHANICAL CHARACTERISTICS

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| Cable Outer diameter   | <b>14.1 mm Max   0.555 inch</b>                                                     |
| Static bending radius  | <b>50.0 mm   1.97 inch</b>                                                          |
| Dynamic bending radius | <b>100.0 mm   3.94 inch</b>                                                         |
| Other                  | <b>Flexure life cycle &gt; 50,000</b><br><b>Mating cycles durability &gt; 5,000</b> |

## ENVIRONMENTAL CHARACTERISTICS

|                   |                                             |
|-------------------|---------------------------------------------|
| Temperature range | <b>Lab conditions 23<math>\pm</math>5°C</b> |
| Fire resistance   | <b>Yes</b>                                  |
| RoHS              | <b>Yes</b>                                  |