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|----------|-------------------------|----------------------------------|------------------------------------|
| PAGE 1/1 | ISSUE <b>12/07/2021</b> | SERIES <b>TestPro VNA Series</b> | PART NUMBER <b>VB01581551219TF</b> |
|----------|-------------------------|----------------------------------|------------------------------------|

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

Armored VNA cable - 50,000 flexlife

Phase Stability ( $\pm$ degree @ 50 GHz): 3.5 Typ. / 7.5 Max.  
Amplitude Stability (dB @ 50 GHz): 0.03 Typ. / 0.08 Max.



DESIGNATION

|                 |   |
|-----------------|---|
| Cable           | <b>VNA cable - P/N - VNA cable type VB</b>                        |
| Connector Left  | <b>2.4 mm - NMD female - Stainless steel - P/N: R327232131</b>    |
| Connector Right | <b>2.4 mm - Straight plug - Stainless steel - P/N: R327062121</b> |
| Assembly Length | <b>1219 mm / 47.99 inch (tolerance = <math>\pm</math> 2%)</b>     |
| Assembly Weight | <b>445.76 gr / 15.72 oz (tolerance = <math>\pm</math> 5%)</b>     |

ELECTRICAL CHARACTERISTICS

|                                 |   |
|---------------------------------|---|
| Characteristic impedance        | <b>50 Ohms</b>  |
| Max operating frequency         | <b>50.0 GHz</b>   |
| Assembly Typ Insertion Loss     | <b>6.68 dB (at 20 °C, at 50.0 GHz )</b>   |
| Assembly Typ VSWR               | <b>1.38 (at 50.0 GHz )</b>  |
| Assembly Max. Insertion Loss    | <b>7.79 dB (at 20 °C, at 50.0 GHz )</b>   |
| Assembly Max VSWR               | <b>1.43 (at 50.0 GHz )</b>  |
| Assembly Max Return Loss        | <b>15.0 dB (at 50.0 GHz )</b>   |
| Dielectric withstanding voltage | <b>500 V</b>  |
| Insulation resistance           | <b>5000 M.Ohms</b>  |
| Other                           | <b>Typical amplitude stability (dB) 0,03 @ 50GHz / 0,04 @ 67GHz</b><br><b>Typical phase stability 3,5° @50GHz / 5,5° @ 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>                                  |