Armored Test Cable

KBL-2M-LOW+

50Ω 2M DC to 40 GHz Low Loss

Maximum Ratings
- Operating Temperature: -55°C to +85°C
- Storage Temperature: -55°C to +85°C
- Power Handling at 25°C: 53W at 2 GHz
- Sea Level: 17W at 18 GHz
- 15W at 26.5 GHz
- 11W at +40 GHz
- Coupling Nut Torque: 1.09 N-M

Features
- Extremely low insertion loss
- Extra rugged construction includes protective shield and strain relief for longer life
- Stainless steel 40 GHz connector for long mating-cycle life
- Double shield cable for excellent shielding effectiveness
- 40 GHz connector mates with 2.92 mm, K*, 3.5 mm, SMA

Applications
- Military and defense applications
- Research & development labs

Electrical Specifications at 25°C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Condition (GHz)</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>DC - 6</td>
<td>1.92</td>
<td>2.35</td>
<td></td>
<td>dB</td>
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<tr>
<td></td>
<td>6 - 18</td>
<td>3.41</td>
<td>3.75</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>18 - 26.5</td>
<td>4.27</td>
<td>4.65</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>26.5 - 40</td>
<td>5.46</td>
<td>5.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>DC - 6</td>
<td>17</td>
<td>25</td>
<td></td>
<td>dB</td>
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<tr>
<td></td>
<td>6 - 18</td>
<td>17</td>
<td>20</td>
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<td></td>
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<tr>
<td></td>
<td>18 - 26.5</td>
<td>16</td>
<td>19</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>26.5 - 40</td>
<td>14</td>
<td>17</td>
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</tbody>
</table>

Permanent damage may occur if any of these limits are exceeded.

Cable Construction
- Center Conductor: Solid Silver Plated Copper Clad Steel
- Dielectric: PTFE
- Inner Braid: Spiral Strip of Silver Plated Copper Strip
- Outer Conductor: Round Silver Plated Copper
- FEP Internal Jacket
- Stainless Steel Spiral Armor
- Stainless Steel Braid
- Blue PVC External Jacket

+RoHS Compliant
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Product Guarantee
Mini-Circuits® will repair or replace your test cable at its option if the connector attachment fails within six months of shipment. This guarantee excludes cable or connector interface damage from misuse or abuse.

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Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits’ website at www.minicircuits.com/MCLStore/terms.jsp

KBL-2M-LOW+ 2.92mm Male  
KBL-2M-LOW+ 3.5mm Male  
KBL-2M-LOW+ 3.5mm Male 2