## Low Noise Cable

### Features
- Minimizes triboelectric/microphonic noise
- Noise level reduction up to a factor of 1,000
- Assembled with very high quality connectors
- Highly shielding coaxial design

### Applications
- Low signal current, voltage and charge measurements
- Scanning probe microscopy, photodetectors, ionization detectors, piezo- and pyroelectric sensors etc.
- For use with FEMTO low noise amplifiers. Strongly recommended for all current amplifiers with gain $\geq 10^7$ V/A.

### Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance</td>
<td>(50 ± 5) Ω</td>
</tr>
<tr>
<td>Capacitance</td>
<td>96 pF/m</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>$&gt; 10^4$ Ω·m</td>
</tr>
<tr>
<td>DC resistance, inner conductor</td>
<td>&lt; 800 mΩ</td>
</tr>
<tr>
<td>DC resistance, outer conductor</td>
<td>&lt; 45 mΩ</td>
</tr>
<tr>
<td>Attenuation</td>
<td>$\leq$ 0.1 dB/m, DC to 4 MHz</td>
</tr>
</tbody>
</table>

### Cable Design
- A Inner conductor: copper, 7 x Ø 0.1 mm, Ø 0.3 mm
- B Dielectric: polytetrafluoroethylene (PTFE), Ø 0.84 mm
- C Coating: semi conductive, Ø 0.88 mm
- D Shield: silver plated tensile flex braid 90 %, Ø 1.35 mm
- E Jacket: perfluoroalkoxy (PFA), Ø 1.9 mm

### General Data
- Maximum operating voltage: < 50 VAC, < 75 VDC
- Temperature range: –55 °C to +200 °C
- Weight: (42 ± 4) g, for length 1.0 m

### Dimensions
- Length tolerance: +15 mm, –5 mm

### Ordering Code

<table>
<thead>
<tr>
<th>Length</th>
<th>BNC – BNC plug (male) – plug (male)</th>
<th>Length</th>
<th>BNC – BNC plug (male) – plug (male)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 m</td>
<td>CAB-LN1-BB-010</td>
<td>1.5 m</td>
<td>CAB-LN1-BB-150</td>
</tr>
<tr>
<td>0.2 m</td>
<td>CAB-LN1-BB-020</td>
<td>2.0 m</td>
<td>CAB-LN1-BB-200</td>
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<tr>
<td>0.5 m</td>
<td>CAB-LN1-BB-050</td>
<td>3.0 m</td>
<td>CAB-LN1-BB-300</td>
</tr>
<tr>
<td>1.0 m</td>
<td>CAB-LN1-BB-100</td>
<td>5.0 m</td>
<td>CAB-LN1-BB-500</td>
</tr>
</tbody>
</table>

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