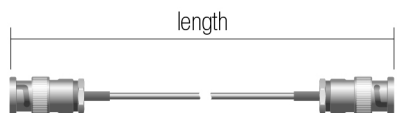


## Low Noise Cable

Features	<ul style="list-style-type: none"> <li>• <b>Minimizes triboelectric/microphonic noise</b></li> <li>• <b>Triboelectric noise level reduction up to a factor of 1,000</b></li> <li>• <b>Assembled with very high quality connectors</b></li> <li>• <b>Highly shielding coaxial design</b></li> </ul>																		
Applications	<ul style="list-style-type: none"> <li>• <b>Low signal current, voltage and charge measurements</b></li> <li>• <b>Scanning probe microscopy, photodetectors, ionization detectors, piezo- and pyroelectric sensors etc.</b></li> <li>• <b>For use with FEMTO low noise amplifiers. Strongly recommended for all current amplifiers with gain <math>\geq 10^7</math> V/A</b></li> <li>• <b>Recommended for low frequency applications (<math>\leq 1</math> MHz)</b></li> </ul>																		
Specifications	<table border="0"> <tr> <td>Test conditions</td> <td><math>T_A = 25\text{ }^\circ\text{C}</math></td> </tr> <tr> <td>Electrical</td> <td>                     Impedance <math>50\ \Omega \pm 5\ \Omega</math>                      Capacitance <math>94\ \text{pF/m} \pm 10\ \text{pF/m}</math>                      Insulation resistance <math>&gt; 10^{14}\ \Omega \times \text{m}</math>                      DC resistance, inner conductor <math>&lt; 400\ \text{m}\Omega/\text{m}</math>                      DC resistance, outer conductor <math>&lt; 40\ \text{m}\Omega/\text{m}</math>                      Recommended frequency range DC to 1 MHz                      Attenuation <math>&lt; 0.1\ \text{dB/m}</math> (@ DC to 1 MHz)                 </td> </tr> <tr> <td>General Data</td> <td>                     Cable jacket PTFE, <math>\varnothing 1.92\ \text{mm}</math>                      Connectors BNC plug (male) to BNC plug (male)                      Minimum bending radius 15 mm (fixed installation)                      30 mm (free movement)                      Maximum operating voltage <math>&lt; 100\ \text{V rms}</math>                      Temperature range connectors <math>-55\text{ }^\circ\text{C}</math> to <math>+155\text{ }^\circ\text{C}</math>                      Temperature range cable <math>-190\text{ }^\circ\text{C}</math> to <math>+200\text{ }^\circ\text{C}</math>                      Weight 45 g (for length 1.0 m)                 </td> </tr> </table>	Test conditions	$T_A = 25\text{ }^\circ\text{C}$	Electrical	Impedance $50\ \Omega \pm 5\ \Omega$ Capacitance $94\ \text{pF/m} \pm 10\ \text{pF/m}$ Insulation resistance $> 10^{14}\ \Omega \times \text{m}$ DC resistance, inner conductor $< 400\ \text{m}\Omega/\text{m}$ DC resistance, outer conductor $< 40\ \text{m}\Omega/\text{m}$ Recommended frequency range DC to 1 MHz Attenuation $< 0.1\ \text{dB/m}$ (@ DC to 1 MHz)	General Data	Cable jacket PTFE, $\varnothing 1.92\ \text{mm}$ Connectors BNC plug (male) to BNC plug (male) Minimum bending radius 15 mm (fixed installation) 30 mm (free movement) Maximum operating voltage $< 100\ \text{V rms}$ Temperature range connectors $-55\text{ }^\circ\text{C}$ to $+155\text{ }^\circ\text{C}$ Temperature range cable $-190\text{ }^\circ\text{C}$ to $+200\text{ }^\circ\text{C}$ Weight 45 g (for length 1.0 m)												
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