**Datasheet** CAB-LN-1 Low Noise Cable Features Minimizes triboelectric/microphonic noise Triboelectric 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 ≥ 10<sup>7</sup> V/A **Recommended for low frequency applications (≤ 1 MHz)**  $T_A = 25$  °C Specifications Test conditions Electrical  $50~\Omega~\pm 5~\Omega$ Impedance Capacitance 94 pF/m ±10 pF/m Insulation resistance  $> 10^{14} \Omega \times m$ DC resistance, inner conductor  $< 400 \text{ m}\Omega/\text{m}$  $< 40 \text{ m}\Omega/\text{m}$ DC resistance, outer conductor Recommended frequency range DC to 1 MHz Attenuation < 0.1 dB/m (@ DC to 1 MHz) General Data Cable jacket PTFE, Ø 1.92 mm Connectors BNC plug (male) to BNC plug (male) Minimum bending radius 15 mm (fixed installation) 30 mm (free movement) Maximum operating voltage < 100 V rms Temperature range connectors -55 °C to +155 °C -190 °C to +200 °C Temperature range cable Weight 45 g (for length 1.0 m) **Dimensions** length Length tolerance: +15 mm, -5 mm Ordering Code Length Ordering code CAB-LN1-BB-010 0.1 m 0.2 m CAB-LN1-BB-020  $0.5 \, \text{m}$ CAB-LN1-BB-050 1.0 m CAB-LN1-BB-100 1.5 m CAB-LN1-BB-150 2.0 m CAB-LN1-BB-200 3.0 m CAB-LN1-BB-300 5.0 m CAB-LN1-BB-500 FEMTO Messtechnik GmbH Specifications are subject to change without notice. Information provided herein is believed to be accurate and Klosterstr. 64 reliable. However, no responsibility is assumed by FEMTO Messtechnik GmbH for its use, nor for any infringement 10179 Berlin · Germany of patents or other rights of third parties which may result from its use. No license is granted by implication or Phone: +49 30 280 4711-0 otherwise under any patent or patent rights of FEMTO Messtechnik GmbH. Product names mentioned may also be Fax: +49 30 280 4711-11 trademarks used here for identification purposes only. Fmail: info@femto.de © by FEMTO Messtechnik GmbH · Printed in Germany www.femto.de

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SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

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