



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 ٠ 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 $\ge 10^7$ V/A Recommended for low frequency applications (≤ 1 MHz) • Specifications Test conditions $T_A = 25 \ ^\circ C$ Electrical Impedance 50 Ω ±5 Ω Capacitance 94 pF/m ±10 pF/m $> 10^{14} \Omega \times m$ Insulation resistance < 400 mΩ/m DC resistance, inner conductor DC resistance, outer conductor $< 40 \text{ m}\Omega/\text{m}$ 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) < 100 V rms Maximum operating voltage 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 0.1 m CAB-LN1-BB-010 0.2 m CAB-LN1-BB-020 0.5 m CAB-LN1-BB-050 1.0 m CAB-LN1-BB-100 CAB-LN1-BB-150 1.5 m 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. Email: info@femto.de © by FEMTO Messtechnik GmbH · Printed in Germany www.femto.de SOPHISTICATED TOOLS FOR SIGNAL RECOVERY 0