



) atasheet	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 ≥ 10⁷ V/A Recommended for low frequency applications (≤ 1 MHz)
Specifications	Test conditions T _A = 25 °C
Electrical	$\begin{array}{lll} \mbox{Impedance} & 50 \ \Omega \pm 5 \ \Omega \\ \mbox{Capacitance} & 94 \ \mbox{pF/m} \pm 10 \ \mbox{pF/m} \\ \mbox{Insulation resistance} & > 10^{14} \ \Omega \times m \\ \mbox{DC resistance, inner conductor} & < 400 \ \mbox{m} \mbox{O/m} \\ \mbox{DC resistance, outer conductor} & < 40 \ \mbox{m} \mbox{O/m} \\ \mbox{Recommended frequency range} & DC \ \mbox{to 1 MHz} \\ \mbox{Attenuation} & < 0.1 \ \mbox{dB/m} \ (@ \ \mbox{DC to 1 MHz}) \\ \end{array}$
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 7 cmperature range connectors Temperature range cable 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 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
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