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**

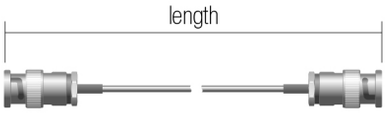
Applications

- **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 ≥ 10^7 V/A**
- **Recommended for low frequency applications (≤ 1 MHz)**

Specifications

	Test conditions	T_A = 25 °C
Electrical		
	Impedance	50 Ω ±5 Ω
	Capacitance	94 pF/m ±10 pF/m
	Insulation resistance	> 10^{14} Ω × m
	DC resistance, inner conductor	< 400 mΩ/m
	DC resistance, outer conductor	< 40 mΩ/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)
	Maximum operating voltage	< 100 V rms
	Temperature range connectors	–55 °C to +155 °C
	Temperature range cable	–190 °C to +200 °C
	Weight	45 g (for length 1.0 m)

Dimensions



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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