

Low Noise Cable

Features

- **Minimizes triboelectric/microphonic noise**
- **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 $\geq 10^7$ V/A**

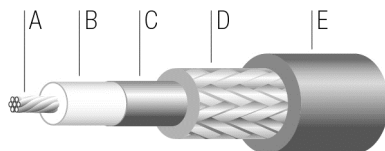
Specifications

Electrical

Impedance	$(50 \pm 5) \Omega$
Capacitance	96 pF/m
Insulation resistance	$\geq 10^{14} \Omega/m$
DC resistance, inner conductor	$< 800 \text{ m}\Omega/m$
DC resistance, outer conductor	$< 45 \text{ m}\Omega/m$
Attenuation	$\leq 0.1 \text{ dB/m, DC to 4 MHz}$

Cable Design

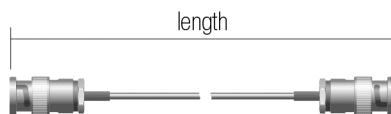
A Inner conductor	copper, 7 x $\emptyset 0.1 \text{ mm}$, $\emptyset 0.3 \text{ mm}$
B Dielectric	Polytetrafluoroethylene (PTFE), $\emptyset 0.84 \text{ mm}$
C Coating	semi conductive, $\emptyset 0.88 \text{ mm}$
D Shield	silver plated tensile flex braid 90 %, $\emptyset 1.35 \text{ mm}$
E Jacket	Perfluoroalkoxy (PFA), $\emptyset 1.9 \text{ mm}$



General Data

Maximum operating voltage	$< 50 \text{ VAC, } < 75 \text{ VDC}$
Temperature range	$-55 \text{ }^\circ\text{C to } +200 \text{ }^\circ\text{C}$
Weight	$(42 \pm 4) \text{ g, for length } 1.0 \text{ m}$

Dimensions



Ordering Code

	BNC – BNC
Length	plug (male) – plug (male)
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
Length tolerance	+15 mm, –5 mm

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