

High Performance Coaxial Cable		
Features	<ul> <li>Minimizes grounding (ground loop) related noise</li> <li>Double shielded coaxial design, screening effectiveness ≥ 85 dB</li> <li>100 % tested RF parameters Return Loss (RL) and Insertion Loss (IL)</li> <li>Assembled with high quality connectors</li> <li>General purpose current, voltage and charge measurements</li> <li>For use with FEMTO low noise amplifiers at input and output (see our CAB-LN1 cable for input of high gain transimpedance amplifiers)</li> </ul>	
Applications		
Specifications	Test conditions	T <sub>A</sub> = 25 °C, sea level
Electrical	Impedance Capacitance Insulation resistance DC resistance, inner conductor DC resistance, outer conductor Recommended frequency range Signal delay Screening effectiveness Attenuation (nominal)	$50 Ω ±1 Ω$ $101 pF/m$ > $10^{13} Ω × m$ < $28 mΩ/m$ < $7 mΩ/m$ DC to 4 GHz 5 ns/m ≥ 85 dB (up to 1 GHz) 0.23 dB/m @ 300 MHz, 0.45 dB/m @ 1.0 GHz 0.78 dB/m @ 2.5 GHz
RF Characteristics (100% Tested)	Return loss (RL) @ 2.5 GHz Insertion loss (IL) @ 2.5 GHz	> 20 dB $<$ 0.26 dB (0.2 m), $<$ 0.51 dB (0.5 m), $<$ 0.77 dB (0.8 m), $<$ 1.38 dB (1.5 m), $<$ 2.67 dB (3.0 m)
Cable Design	A Inner conductor B Dielectric C Outer conductor D Outer conductor E Jacket  A B C D E  Length tolerance	copper wire, silver plated, Ø 0.88 mm polyethylene (PE), Ø 2.95 mm copper braid 96 %, silver plated, Ø 3.6 mm copper braid 94 %, silver plated, Ø 4.2 mm polyvinyl chloride (PVC II) low migration, Ø 5.4 mm length
General Data	Connectors Minimum bending radius  Maximum operating voltage Temperature range connectors Temperature range cable Weight	BNC plug (male) to BNC plug (male) 30 mm (fixed installation) 55 mm ( $\leq$ 50 repeated bendings) AC: < 46 V peak-peak, DC: < 70 V -60 °C to +160 °C -25 °C to +85 °C 0.2 m: 32 g (0.07 lbs), 0.5 m: 50 g (0.11 lbs), 0.8 m: 68 g (0.15 lbs), 1.5 m: 108 g (0.24 lbs), 3.0 m: 198 g (0.44 lbs)
Ordering Code	CAB-HF1-BB-020 CAB-HF1-BB-050 CAB-HF1-BB-080 CAB-HF1-BB-150 CAB-HF1-BB-300	0.2 m (0.66 ft) BNC plug (male) to BNC plug (male) 0.5 m (1.64 ft) BNC plug (male) to BNC plug (male) 0.8 m (2.62 ft) BNC plug (male) to BNC plug (male) 1.5 m (4.92 ft) BNC plug (male) to BNC plug (male) 3.0 m (9.84 ft) BNC plug (male) to BNC plug (male)
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