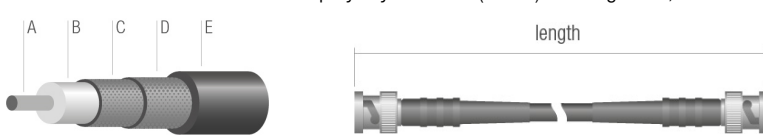


High Performance Coaxial Cable

| | | |
|----------------|---|--|
| Features | <ul style="list-style-type: none"> • Minimizes grounding (ground loop) related noise • Double shielded coaxial design, screening effectiveness ≥ 85 dB • 100 % tested RF parameters Return Loss (RL) and Insertion Loss (IL) • Assembled with high quality connectors | |
| Applications | <ul style="list-style-type: none"> • General purpose current, voltage and charge measurements • For use with FEMTO low noise amplifiers at input and output (see our CAB-LN1 cable for input of high gain transimpedance amplifiers) | |
| Specifications | <p>Test conditions</p> <p>Electrical</p> <p>RF Characteristics (100% Tested)</p> <p>Cable Design</p> <p>General Data</p> | <p>$T_A = 25$ °C, sea level</p> <p>Impedance $50 \Omega \pm 1 \Omega$ Capacitance 101 pF/m Insulation resistance $> 10^{13} \Omega \times m$ DC resistance, inner conductor < 28 mΩ/m DC resistance, outer conductor < 7 mΩ/m Recommended frequency range DC to 4 GHz Signal delay 5 ns/m Screening effectiveness ≥ 85 dB (up to 1 GHz) Attenuation (nominal) 0.23 dB/m @ 300 MHz, 0.45 dB/m @ 1.0 GHz, 0.78 dB/m @ 2.5 GHz</p> <p>Return loss (RL) @ 2.5 GHz > 20 dB Insertion loss (IL) @ 2.5 GHz < 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)</p> <p>A Inner conductor copper wire, silver plated, $\varnothing 0.88$ mm B Dielectric polyethylene (PE), $\varnothing 2.95$ mm C Outer conductor copper braid 96 %, silver plated, $\varnothing 3.6$ mm D Outer conductor copper braid 94 %, silver plated, $\varnothing 4.2$ mm E Jacket polyvinyl chloride (PVC II) low migration, $\varnothing 5.4$ mm</p>  <p>Length tolerance ± 5 mm</p> <p>Connectors BNC plug (male) to BNC plug (male) Minimum bending radius 30 mm (fixed installation), 55 mm (≤ 50 repeated bendings) Maximum operating voltage AC: < 46 V peak-peak, DC: < 70 V Temperature range connectors -60 °C to $+160$ °C Temperature range cable -25 °C to $+85$ °C Weight 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)</p> |
| Ordering Code | <p>CAB-HF1-BB-020 CAB-HF1-BB-050 CAB-HF1-BB-080 CAB-HF1-BB-150 CAB-HF1-BB-300</p> | <p>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)</p> |

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