



High Definition BNC Connectors

The Shadow™ is the trade name for the best high definition BNC connector available at any price. Shadow™ BNC connectors fit all standard broadcast cables and utilize most standard existing tooling. These connectors are made from precision machined brass. Insulator material is high density TFE to maintain a perfect dielectric constant. Bomar connectors utilize a .042 diameter gold plated contact pin to maintain the best return loss in high definition applications.

The Shadow™ is precision machined (not die-cast) from brass. A special black nickel plating is applied for a beautiful finish that is easily identifiable as a high definition connector. Each connector is precision matched to a specific cable type.

Uses standard commercial tooling.

Part Number	✓	Cable	Hex Crimp	Tool
HBC1505A	✓	1505A	.255/.042*	BDHD100
HBC1694A	✓	1694A	.324/.042*	BDHD100
HBC1694AX	✓	1694A	.278/.042*	BDHD100
HBC1855A	✓	1855A	.178/.042*	BDHD200
HBC179DT	✓	179DT	.213 ferrule only*	BDHD200
BD17900		12 Point Tool	.042 (pin only)	

* We recommend 12 point tool for .042 pin Bomar BD17900 (See Below)

Other cable sizes are available by special order.



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BD17900 crimp tool for all HD (.042 pin)

In an independent test The Shadow™ proved to have the best return loss results at 3GHz.

Freq in GHz	Return Loss (No Cable)	Return Loss (No Cable)	Return Loss (No Cable)	Return Loss (No Cable)	Return Loss (No Cable)
xxx	Bomar	K-Brand	A-Brand	AM-Brand	T-Brand
2.0	- 29.4 dB	- 22.6 dB	- 23.3 dB	- 44.8 dB	- 21.4 dB

2.6	- 26.6 dB	- 20.3 dB	- 20.9 dB	- 22.3 dB	- 20.2 dB
3.0	- 23.1 dB	- 18.0 dB	- 17.4 dB	- 20.0 dB	- 19.0 dB

Bomar P/N HBC1694A HP8648C, Slotted Line (*Connector Only Used For True Results.*)

Once cable is applied . .

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