



High Definition BNC Connectors

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

The Shadow™ is precision machined (not cast) from brass. A special black nickel plating is applied to give it 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.



BD17900 crimp tool for 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)
	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 (Connector Only Used for True Results.)

Once cable is applied .

