



High Definition BNC Connectors

The Shadow™ in 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 | <input checked="" type="checkbox"/> | 1505A | .255/.042* | BDHD100 |
| HBC1694A | <input checked="" type="checkbox"/> | 1694A | .324/.042* | BDHD100 |
| HBC1694AX | <input checked="" type="checkbox"/> | 1694A | .278/.042* | BDHD100 |
| HBC1855A | <input checked="" type="checkbox"/> | 1855A | .178/.042* | BDHD200 |
| HBC179DT | <input checked="" type="checkbox"/> | 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) |
|-------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 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 . .



[back to index](#)