



## 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. However, Bomar die sets are available for use with KTH1000 frame.



| Part Number                                       | Fits Cable |
|---|------------|
| HBC179DT  | 179DT      |
| HBC1505A  | 1505A      |
| HBC1694A  | 1694A      |
| HBC1855A  | 1855A      |
| HBC8218   | 8218       |
| Other cable sizes are available by special order. |            |



**BD17900 crimp tool for all HD (.042 pin)**

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

| <b>Freq in GHz</b> | <b>Return Loss<br/>(No Cable)</b> | <b>Return Loss<br/>(No Cable)</b> | <b>Return Loss<br/>(No Cable)</b> | <b>Return Loss<br/>(No Cable)</b> | <b>Return Loss<br/>(No Cable)</b> |
|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                    | <b>Bomar</b>                      | <b>K-Brand</b>                    | <b>A-Brand</b>                    | <b>AM-Brand</b>                   | <b>T-Brand</b>                    |
| <b>2.0</b>         | <b>- 29.4 dB</b>                  | <b>- 22.6 dB</b>                  | <b>- 23.3 dB</b>                  | <b>- 44.8 dB</b>                  | <b>- 21.4 dB</b>                  |
| <b>2.6</b>         | <b>- 26.6 dB</b>                  | <b>- 20.3 dB</b>                  | <b>- 20.9 dB</b>                  | <b>- 22.3 dB</b>                  | <b>- 20.2 dB</b>                  |
| <b>3.0</b>         | <b>- 23.1 dB</b>                  | <b>- 18.0 dB</b>                  | <b>- 17.4 dB</b>                  | <b>- 20.0 dB</b>                  | <b>- 19.0 dB</b>                  |

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

*Once cable is applied . . .*

