

The connector **BNC HD eco** fits with the characteristic impedance of 75 W (High Definition) and is particularly used for the digital video transmission.

The high-frequency characteristics improved, because the inner- and outer conductor are gold plated. (E.g. for 'Skineffect') As a result the contact resistance will be reduced the whole lifetime, due to a better corrosion performance.

The coaxial connector BNC HD eco is small, light, moisture-proof and full intermateable with all usual BNC connectors.

Features

- Low return loss-values
- Gold plated inner- and outer conductor for a permanently good signal transmission
- Cable assembly by simply crimping the inner- and outer conductor
- Intermateable with all usual BNC connectors
- The plugs are available for the cable diameter from 3 mm to 11 mm
- Same assembly tools, which are used for the BNC Standard 75 Ohm
- Strain Relief Sleeves (PUR) in 11 Colors and for all Cable nominal diameter
- Twist Sleeves (PUR) in 11 Colors for Cable nominal diameter 5 mm, for easier coupling of
- recessed Sockets or a high packing density
- The plugs are successfully tested for HDTV signal transmission in accordance with SMPTE 292M from ARGE RBT
- Excellent price/performance ratio.
- Made in Germany by Damar & Hagen



Electrical characteristics (at 20°C and 65 % relative humidity)

Impedance.....	75 Ω
Frequency range	0 up to 4 GHz
Return loss (connector plugged with socket)	≥ 20 dB

Contact resistance (connector plugged with socket)

Inner conductor.....	≤ 3 m Ω
Outer conductor.....	≤ 1 m Ω
Insulation resistance.....	≥ 5 G Ω

Test voltage U_{eff}

Connectors for cable diameter	≤ 4 mm 1000 V
Connectors for cable diameter	≥ 5 mm 1500 V

Operating voltage U_{eff}

Connectors for cable diameter	≤ 4 mm 400V
Connectors for cable diameter	≥ 5 mm 500V

Operating temperature range..... - 65 °C up to +165 °C

Mechanical characteristics

Durability (mating cycles)	≥ 1000
RoHS	compliant

Construction

Inner conductor.....	Brass/Beryllium copper hard gold-plated
Dielectric.....	PTFE
Outer conductor.....	Brass, hard gold-plated
Spring elements.....	Stainless steel
Other material parts.....	Brass/Copper with corrosion resistance finish
Gasket	Silicon
Strain Relief Sleeve.....	Polyurethane (PUR)

The specified data serve only to describe the product and should not be considered legally binding, guaranteed properties.

Depending on the application, design, type of cable and assembly method the specified values may differ.

We reserve the right to make constructional changes, determine delivery and are not responsible for any errors and omissions.

Individual customized High Performance Cable Connectors

On the basis of our 90 years of experience as Developer and Producer of high quality cable connectors we are able to provide customer-specific solutions by manufacturing individual precision cable connectors from Damar & Hagen.

Options

Surface	special surfaces according to customers requirement, for the layer structure and also for the layer thicknesses
Cable connections.....	halogen-free cables, two braids cable, multi-wire cable, unusual cable diameter, different cable length, additional clamping of the cable sheath, Assembly by our company,
Dimensions.....	all dimensions, distances, nuts, tread length mounting holes, insulation bases etc. are variable according to customers requirement
Electrically variable.....	special resistors, circuits, contacts are possible According to customers requirement
Insulating parts, gaskets and contacts	other colours and materials are possible (e. g. Beryllium bronze for outer conductor contact)