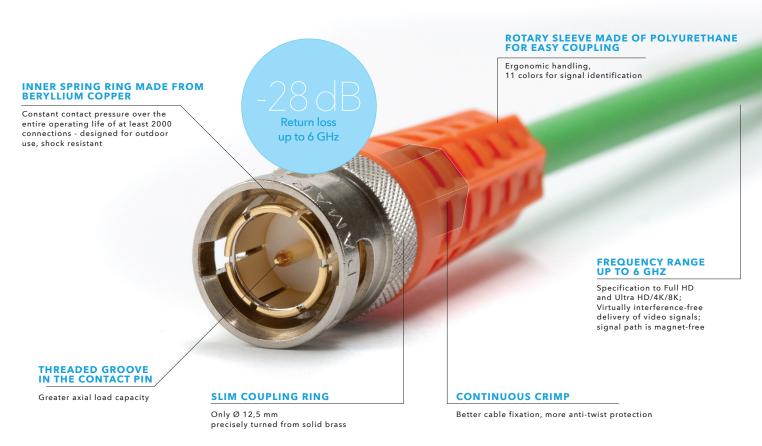
BNCslim at a glance

BNCslim for UHD/4K (12G)

Easiest handling with high packing density (Pitch 13,5mm)



BNCslim is mating compatible with commercially available BNC connectors.





BNCslim for 4K and 8K Video Signals

BNCslim is a variation of our approved BNCpro series, which due to their slim design especially suited for crossbars and video routers as well as for patch panels with high packing density (Pitch from 13,5 mm).

The electrical properties (return loss etc.) as well as the operating life of at least 2000 connections are identical to those of the BNCpro series. Therefore the BNCslim series is equally suitable for transmitting 4K and 8K video signals.

BNCslim cable plugs are equipped with a so-called rotary sleeve for easier coupling in extreme tight space conditions such as crossbars and patch panels.

Features:

- BNCslim Cable Plugs are fast and easy to couple, preferably using the attached rotary sleeve
- BNCslim can be installed very tightly. Due to their small pitch of only 13.5 mm, 19 inch patch panels with 32 sockets each row are possible.
- BNCslim is compliant to norms and therefore intermateable with all common BNC connectors available on the market.
- Inner and outer conductor are gold-plated and the signal path is magnet-free
- Technical Values as in our proven BNCpro series
- Cable installation is performed by simply crimping the inner and outer conductor and thereby contributes to a high level of efficiency.
- Rotary sleeves for all cable diameters from 3 to 7 mm



Cable Plug



Bulkhead Adaptor



Bulkhead Insulated-Adaptor

BNCslim made by Damar & Hagen is intermateable with all common BNC-Series.



Technical Data

Impedance	75 Ω
Frequency range	0 up to 6 GHz (12 Gbit/s)
Return loss* - Plug	≥ 32 dB up to 3 GHz
G	≥ 28 dB up to 6 GHz
VSWR - Plug	≤ 1.05 up to 3 GHz
•	≤ 1.08 up to 6 GHz
Reflection factor - Plug	≤ 2.5% up to 3 GHz
•	≤ 4% up to 6 GHz
Return loss* - Socket	≥ 31 dB up to 3 GHz
	≥ 27 dB up to 6 GHz
VSWR - Socket	≤ 1.06 up to 3 GHz
	≤ 1.09 up to 6 GHz
Reflection factor - Socket	≤ 2.8% up to 3 GHz
	≤ 4.5% up to 6 GHz
Contact resistance (connector plugged with socket)	
Inner conductor	
Outer conductor	
Isolation resistance	≥ 5 GΩ
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	
Connectors for cable diameter	≥ 5 mm 500 V
On anoting Tamen another Banks	CE °C to 14CE °C
Operating Temperature Range	65 C up to + 165 C
Mechanical Characteristics	
Durability (mating cycles)*	≥ 2000
RoHS	compliant
Construction Socket	
Inner conductor	Beryllium copper, non-magnetic, hard gold-plated
Dielectric	
Outer conductor	Brass, non-magnetic, hard gold-plated

*Devergent data mentioned at the respective product.

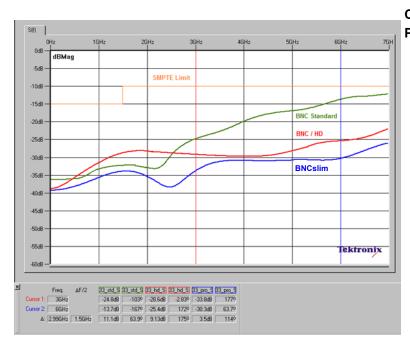
BNCslim made by Damar & Hagen is intermateable with all common BNC-Series.





Construction Plug

Inner conductor	Brass, non-magnetic, hard gold-plated
Dielectric	PTFE
Outer conductor	Brass, non-magnetic, hard gold-plated
Spring elements	Beryllium copper/ Stainless steel
Other material parts	Brass, nickel-plated/ Stainless steel
Gasket	Silicon
Coupling ring	Brass, nickel-plated
Crimp sleeve	Copper, nickel-plated
Rotary sleeve	Polyurethane (PUR)



Comparative measurement of Cable Plugs:

Series	Part Number	R _∟ [dB] (Return loss)		VSWR (Voltage standing wave ratio)		r [%] (Reflection)	
		3 GHz	6 GHz	3 GHz	6 GHz	3 GHz	6
BNC Standard	1-5126-2100	-23	-12	1.15	1.67	7	25
BNC HD	1-6051-2100	-27	-23	1.09	1.15	4.5	7
BNCslim	1-8805-13100	-32	-28	1.05	1.08	2.5	4

Measured: Patch cable 0.3 m with cable plugs of different BNC-Series Instrument: Measurement with time domain reflectometer of Tektronix.

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.



Design Options

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 custumer-specific solutions by manufacturing individual presicion cable connectors from Damar & Hagen.

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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)



