NEUTRIK

NBNC75BFG7X

The rearTWIST UHD BNC connectors are specifically designed for high resolution video signal transmissions. Due to the unique insulator and contact pin design, the connectors feature low return loss values for 4K and 8K signals.

Features & Benefits

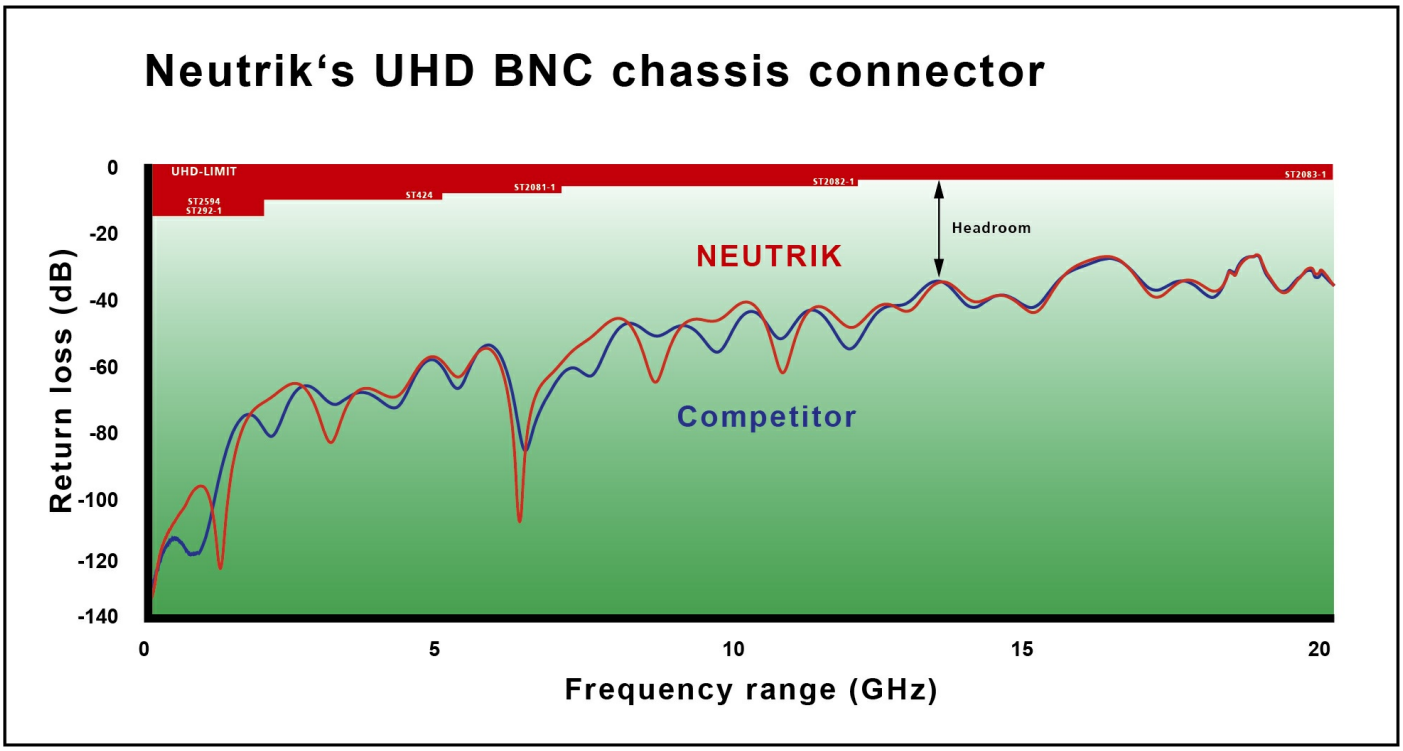
- Optimized contact pin and insulator design for UHD-data transmissions
- Proven rearTWIST technology
- Swiss antraloy plating
- Fully compatible with conventional BNC chassis connectors
- Improved return loss values at high frequencies

① Screen and cable jacket crimp instead of screen crimp only. Grooved inner surface holds the cable jacket to prevent tearing braids.
② High frequency optimized insulator design for UHD-transmissions.
③ Reduced pin diameter for performance improvement (return loss values).
④ Swiss antraloy plating
⑤ rearTWIST boot for easy access in high density applications.

Optimized Return Loss

Due to optimized insulator design and reduced crimp diameter from center pin the Neutrik rearTWIST UHD BNC connector achieves increased headroom compared to conventional BNC connectors and offers additional return loss reserve for potential impedance deviations resulting from cable bending, incorrect connector assembly or faulty connection interfaces without signal interruption.

For more details see Neutrik UHD BNC White Paper.



Crimp Dimensions

In order to achieve optimum return loss values at high frequencies the crimp dimension of the contact pin has been reduced.

Pin:	1.07 mm
Shield:	5.00 mm
Crimp die:	DIE-R-BNCX-PDG

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Approved Cables

To guarantee high performance for each cable-connector combination at high frequencies Neutrik measured common COAX cables which are specifically designed for ultra high definition transmission (UHD). Find all approved cables listed below.

Suitable cables:
Bryant BD SD01, CAE HD0628LSZH, Canford SDV, Cordial CVI 06-28, Cordial CVI 06-28HD, Cordial CVI 06-28HD-FRNC, Cordial CVI 3-7, Draka 0.6/2.8 AF, Draka 0.6 L/2.8 AF, Extron BNC-5RC, Fuzion SD-1, Klotz V06/28, Klotz VMXx75Y, Kabeltronik HFV 0.6/2.8 AF- FRNC, Kabeltronik MVP 5x 0.6/2.8 AF-FRNC, Nexans HF 75 0,6/2,9 02YS(ST)CH, Percon VK5, Sommer 600-0101M, Sommer 600-0104M, Tesca Supra

UHD optimized cables:
Argosy Image 360, Belden 1855ENH, Belden 1855ECH, Belden 1855EFN, Belden 1855DNH, Belden 70080, Belden 70080NH, Belden 70080CH, Canford SDV-X-LFH, DirectCable 301-351 Evolution XPC, DirectCable 360-031 Evolution XPC, DirectCable 360-036 Evolution XPC, Draka HD Pro 0.6/2.8 AF, Draka Ultra HD PRO 50 UHD, Klotz V062SH

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Technical Information

Product	
Title	NBNC75BFG7X
Connection Type	BNC 75 Ω
Gender	male

Electrical	
Contact resistance	≤ 3 mΩ (inner)
Contact resistance	≤ 2 mΩ (outer)
Dielectric strength	1.5 kVdc
Impedance	75 Ω
Insulation resistance	> 5 GΩ
Rated voltage	< 50 V
VSWR	≤1.06 / >30 dB up to 6 GHz ≤1.13 / >24 dB up to 12 GHz ≤1.22 / >20 dB up to 18 Ghz

Mechanical	
Cable O.D.	4.7 mm
Cable retention	> 30 N (center)
Crimp size	5.0 Hex crimp (shield)
Crimp size (pin)	1.07 crimp
Insertion force	< 25 N
Lifetime	> 1000 mating cycles
Wiresize	
Locking device	Bayonett
Cable anchoring	Jacket crimping

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Material	
Contacts	Brass (CuZn35Pb2), 0.2 µm AuCo (center contact)
Shell	Brass (CuZn39Pb3)
Shell plating	Antraloy
Insert	PP

Environmental	
Temperature range	-30 °C to +85 °C
Contact crimpability	Complies with IEC 60803 and IEC 60352-2