

NBNC75BDD6X

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

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

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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:	4.53 mm
Crimp die:	DIE-R-BNCX-PDG

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:
Belden 1855A, CommScope 7538

UHD optimized cables:
Belden 4855P, Belden 4855R, Clark Wire CD7523, Gepco VDM230

Technical Information

Product	
Title	NBNC75BDD6X
Connection Type	BNC 75 Ω
Gender	male

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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.	4.3 mm
Cable retention	> 30 N (center)
Crimp size	4.53 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

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