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Ready for HDTV?

BNC 75 Ohm Components for HDTV

BNC Plugs, BNC Adaptors, 19" Patch Panels

BNC 75 Ohm Components for HDTV

Digital and Analogue Applications

So-called High Definition Television (HDTV) digital technology is continually gaining in importance. The driving force accelerating this process is the fact that many television broadcasting companies are converting from the analogue PAL Standard to the digital HDTV system. This new standard (with approx. 500,000 pixel) offers a far higher definition and thus a significantly clearer picture on your TV-screen.

The higher transmission data rates required for HDTV (25 Mbit/s per channel* compared to 4 or 5 Mbit/s per channel for PAL systems) necessitate RF connectors with significantly improved 75 ohm impedance matching. Connectors suitable for HDTV transmission lines must, therefore, show excellent Return Loss values up to 3 GHz.

(*NOTE: HDTV 25 Mbit/s per channel means a transmission line data rate of 1.485 Gbit/s).

In order to meet these significantly higher requirements, Telegärtner has developed a new range of 75 ohm BNC connectors, which, because of their broad bandwidth capabilities, are ideally suited for HDTV applications.

Return Loss Values of BNC HDTV Connectors

Part number	Return Loss*		
	1 GHz	2 GHz	3 GHz
Plug			
J01002A0058	- 39 dB	- 33 dB	- 29 dB
J01002A0018	- 38 dB	- 33 dB	- 33 dB
J01002A0055	- 42 dB	- 34 dB	- 30 dB
J01002A0056	- 39 dB	- 33 dB	- 31 dB
J01002A0054	- 36 dB	- 31 dB	- 32 dB
Adaptor			
J01005A0006	- 31 dB	- 36 dB	- 30 dB
J01005A0007	- 30 dB	- 36 dB	- 30 dB
J01005A0008	- 32 dB	- 38 dB	- 30 dB

* = Values shown are typical values. Slight deviations are possible, dependant on the cable used.

BNC HDTV Straight Plugs, Crimp/Crimp



Part number	Cable Group	Inner Cond. ø [mm]	Dielectric ø [mm]	Outer Cond. ø [mm]	Cable Jacket ø [mm]	Belden	Draka	Bedeia
J01002A0058	G4	0.30 +/-0.05	1.50* +/-0.20	2.00 +/-0.20	2.70 +/-0.30	179DT		
J01002A0018	G41	0.60 +/-0.03	2.90* +/-0.15	3.50 +/-0.10	4.70 +/-0.50	1855A	0.6/2.8 AF	0.6/2.8C
J01002A0055	G39	0.80 +/-0.05	3.80* +/-0.10	4.50 +/-0.10	5.90 +/-0.40	1505A/F	0.8/3.7 AF	0.8/3.7C
J01002A0056	G27	1.00 +/-0.02	4.65* +/-0.10	5.15 +/-0.10	6.75 +/-0.25	1694A	1.0/4.8 AF	1.0/4.8C
J01002A0054	G48	1.60 +/-0.05	7.20* +/-0.20	8.10 +/-0.10	10.3 +/-0.30	7731A	1.6/7.3 AF	1.6/7.3C

* = incl. foil

Crimp Dies for BNC Plugs

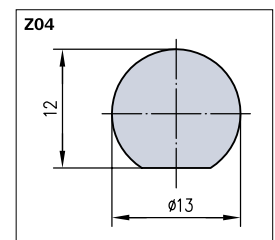


Part number	Product Description	Cable-Group	Crimp Diameter (Hex)	
			Inner cond.	Outer cond.
N00000A1273	Crimp Tool for Interchangeable Dies			
N01001A0009	Interchangeable Die for J01002A0058	G4	0.80x1.50	3.25x8.0
N01001A0039	Interchangeable Die for J01002A0018	G41	1.25x2.50	5.41x8.0
N01001A0056	Interchangeable Die for J01002A0055	G39	1.25x2.50	6.48x8.0
N01001A0004	Interchangeable Die for J01002A0056	G27	1.69x2.50	7.01x8.0
N01001D1274	Interchangeable Die for J01002A0054	G48	2.54x2.29	10.90x10.0

BNC HDTV Adaptors



Part number	Adaptor Type	Panel Piercing
J01005A0006	BNC Adaptor (f-f)	
J01005A0007	BNC Bulkhead Adaptor (f-f)	Z 04
J01005A0008	BNC Bulkhead Adaptor with Insulated Flange (f-f)	Z 04



BNC 19" Patch Panels Economy V



Part number	Product Description	Panel Piercing
H02030A0451	Patch Panel 1 HU for 16 BNC Bulkhead Adaptors	Z 04
H02030A0452	Patch Panel 1 HU for 24 BNC Bulkhead Adaptors	Z 04
H02031A0067	Patch Panel 2 HU for 48 BNC Bulkhead Adaptors	Z 04
H02031A0068	Patch Panel 2 HU for 64 BNC Bulkhead Adaptors (4 x 16)	Z 04
U01100A0010	Installation of the BNC Bulkhead Adaptors in the Patch Panel	

i The BNC bulkhead adaptors for the patch panels must be ordered separately, and can be factory installed, if required. Front plates with different mounting hole patterns are available (max. number of BNC adaptors per row is 16, whereby 2 rows can be accommodated in a 1 HU, and 4 rows in a 2 HU).