



BNC Connectors

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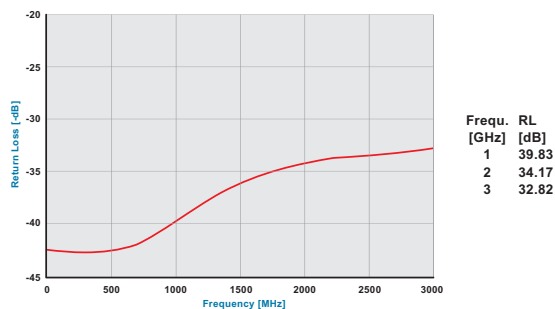
NEUTRIK® 75Ω BNC Connectors

Neutrik® offers a variety of 75 Ω cable and chassis BNC connectors. The Push-Pull and RearTwist® cable connectors are easy to handle in high density applications such as video patchbays and switches, provide a tactile and fast assembly and offer colour coding as a standard. All parts of our BNC series are precisely machined to our high quality standards.

True 75Ω HDTV Connectors

With the introduction of HD signals the impedance of BNC connectors becomes more important than ever. Every deviate impedance has a negative influence on the „return loss“ / „VSWR“ (Voltage Standing Wave Ratio) which are important measurements for reflected signals in a transmission line. Especially on high frequencies - as they occur when transmitting HD signals (typical transmission @ 2.25 GHz) - an impedance mismatch results in a lot of return loss.

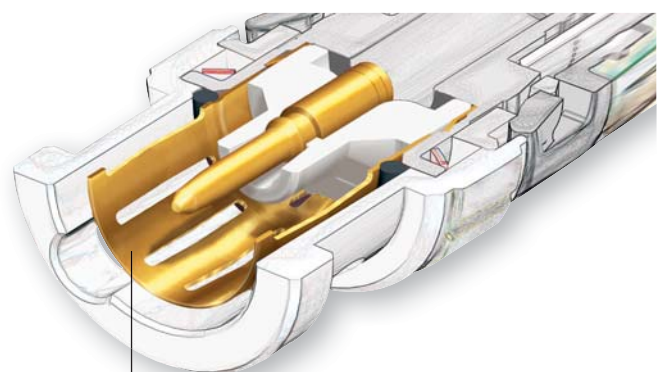
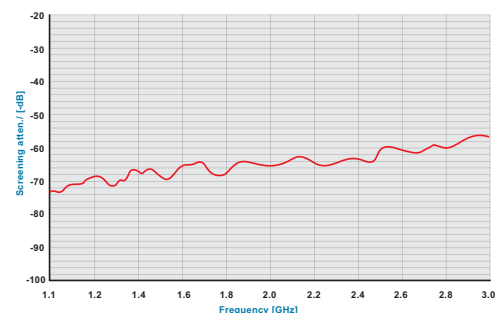
Neutrik's BNC connectors feature a true 75 Ω design that meet the stringent requirements of HDTV and sustain a consistent impedance at high frequencies up to 3 GHz. To achieve this result every Neutrik® BNC connector has been adapted to the measurements of a small group of cables, this guarantees the best possible performance and a little return loss.



The higher the frequencies the more pronounced is the „skin effect“, which means that the energy moves to the outside of the conductor. Therefore the plating of outer and center contact is more important than on audio connectors with low frequencies - both contacts of our BNC connectors are gold plated.

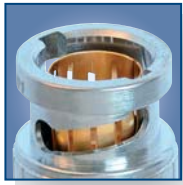
Neutrik BNC's - enhanced high frequency shielding!

In times of rising frequencies the connector shielding becomes to an important value in order to avoid EMI problems and crosstalking. Neutrik BNC's take this fact into account and has been equipped with an optimized ground contact design for maximum shielding effectiveness.



Gold plated ground contact with improved shielding effectiveness optimized for high frequency HDTV signal up to 3 GHz.

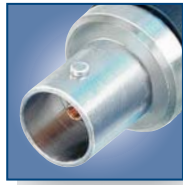
Rear Twist Cable Connectors



Bayonet locking



Gold plated contacts



Female cable jack

Rear Twist® (Standard, Large & Tiny) and Cable Jacks



NBTC75BLI4



NBNC75BLP7

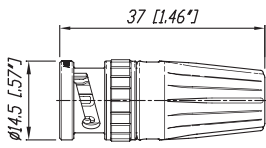


NBNB75GLP9



NBTB75CFI4

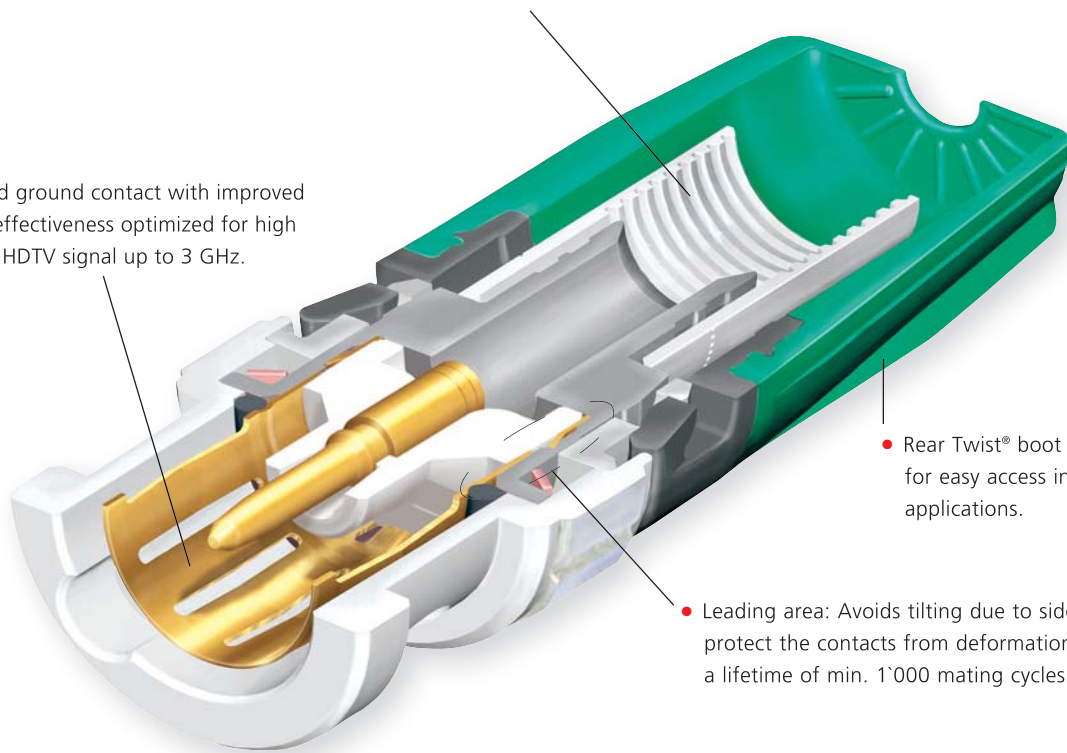
- "Rear Twist® Principle" locking/unlocking using the easily accessible soft touch boot (Patent DE 100 48507)
- Ideal for recessed bulkheads where access to the "head" of the connector might be an issue. These connectors turn from the back and not the front.
- True 75 Ω design meets the stringent HDTV / DVD requirements
- Snug-fit center pin insert provides tactile feedback
- Shield and jacket crimp technology prevents the problem of an exposed grounding braid on cable assemblies
- Excellent cable protection and retention
- Large version for RG 11 cable
- Precise Swiss machined brass parts for outstanding durability
- Accessories include color coded boots in 10 standard colours, crimp tool and dies
- Sleek female cable jack e.g. for Y-cables
- Mountable panel version of cable jack for fixed installations



Features & Benefits

- Screen and cable jacket crimp instead of screen crimp only.
Grooved inner surface holds the cable jacket to prevent tearing braids.

- Gold plated ground contact with improved shielding effectiveness optimized for high frequency HDTV signal up to 3 GHz.



- Rear Twist® boot in 10 colours for easy access in high density applications.

- Leading area: Avoids tilting due to side forces to protect the contacts from deformation. Guarantees a lifetime of min. 1'000 mating cycles!



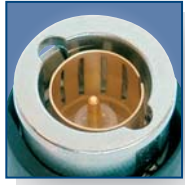
Neutrik BNC:
no tilting due to side pull



Other BNC



Push Pull locking



Gold plated contacts

Push Pull Cable Connectors



NBNC75PTS11



NBNC75PNS7

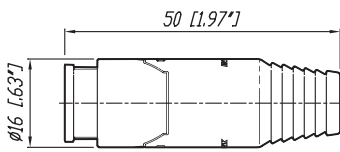


NBNC75PIE9



NBNC75PLS9

- Unique Push-Pull locking system is ideal for ultra high density applications, patching, etc.
- True 75 Ω design meets the stringent HDTV / DVD requirements
- Excellent return loss / VSWR data
- Precision machined parts
- Assembly is fast and easy and requires only a standard center contact crimp after cable preparation
- Reusable due to screw lock strain relief
- Snug-fit center pin insert provides tactile feedback
- Only pin crimp, this eliminates the need of different crimp dies and facilitates field repair
- Innovative screw lock cable retention for easy assembly
- Accessories include colour coded boots in 10 standard and 3 translucent colours



Features & Benefits

- Push Pull sleeve in various colours for easy access in high density applications.
 - Neutrik® chuck type strain relief offers flexibility and field repair.
 - Gold plated ground contact with improved shielding effectiveness optimized for high frequency HDTV signal up to 3 GHz.
 - Leading area: Avoids tilting due to side forces to protect the contacts from deformation. Guarantees a lifetime of min. 1'000 mating cycles!
 - Push Pull locking mechanism for convenient handling, perfect for patching applications.
-
- A 3D cutaway diagram of a push pull cable connector. The diagram shows the internal components, including the gold-plated ground contact, the leading area, and the push pull locking mechanism. The connector is shown in a red and white color scheme. The diagram is annotated with lines pointing to the various features and benefits listed in the text.

Accessories



BNC tool case equipped with
 - HX-R-BNC
 - PT-BNC: Plier tool
 - CS-BNC: Stripping tool

CAS-BNC-T

Note: Dies have to be ordered separately.

Crimp tool, frame



HX-R-BNC

Crimp tool die for pin and shield for HX-R-BNC



DIE-R-BNC-*

Boots, tools, ...



BST-BNC-*

Standard boot for the Rear Twist® BNCs in black, 9 different colours available.



BS-BNC-*

Boot for Push-Pull BNCs in black, 9 different colours available, as well as 3 translucent variants.



HX-BNC

Crimp tool, frame. (heavy duty)



DIE-BNC-*

Crimp tool die for pin and shield for HX-BNC.



HT-BNC

Spanner tool for the Push-Pull BNCs.



DSS

Lettering plate for D Shape-bulkheads.



SCF

Rubber sealing cover to protect the connector against dust and moisture



SCDX

Hinged cover seals D-size chassis connectors, IP42 rated

Crimp die assignment for HX-BNC

Crimp die	Hex crimp mm		Hex crimp inch		Center pin mm (square crimp)
	A	B	A	B	
DIE-BNC-CS	4.06	7.01	0.160	0.276	1.6
DIE-BNC-JD	5.41	4.53	0.213	0.178	1.6
DIE-BNC-PG	6.47	5.00	0.255	0.197	1.6
DIE-BNC-U	7.36	-	0.290	-	1.6
DIE-BNC-UG	7.36	5.00	0.290	0.197	1.6
DIE-BNC-Y	8.23	-	0.324	-	1.6

Crimp die assignment for HX-R-BNC

Crimp die	Hex crimp mm			Hex crimp inch			Center pin mm (square crimp)
	A	B	C	A	B	C	
DIE-R-BNC-PDC	6.47	4.53	4.06	0.255	0.178	0.160	1.6
DIE-R-BNC-PG	6.47	5.00	-	0.255	0.197	-	1.6
DIE-R-BNC-PJ	6.47	5.41	-	0.255	0.213	-	1.6
DIE-R-BNC-PS	6.47	7.01	-	0.255	0.276	-	1.6
DIE-R-BNC-PU	6.47	7.36	-	0.255	0.290	-	1.6
DIE-R-BNC-PY	6.47	8.23	-	0.255	0.324	-	1.6
DIE-R-BNC-Z	9.73	-	-	0.383	-	-	1.75 (Hex crimp)

Cable to Connector Guide

	Push Pull	Rear Twist	Rear Twist Tiny	Cable Jack Tiny	Cable Jack Panel	Hex Crimp in mm
Belden						
1277R, 1278R, 1279R			NBTC75BNN5			4.53
1406B, 1407B, 1417B			NBTC75BVV5			5.00
1426A	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
1505A (ANH)	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
1505F	NBNC75PLS9	NBNC75BJP9				6.47
1506A	NBNC75PIE9	NBNC75BIJ9				5.41
1520A, 1521A, 1522A, 179DT			NBTC75BFI4	NBTB75CFI4		4.06
1694A (ANH)	NBNC75PTS11	NBNC75BTU11				7.36
1694F	NBNC75PTS11	NBNC75BTY11				8.23
1695A	NBNC75PQS11	NBNC75BQP11				6.47
1855A	NBNC75PDE6	NBNC75BDD6				4.53
1865A			NBTC75BXX6			5.00
1855ENH	NBNC75PFE7	NBNC75BFG7				5.00
7731A (ANH)		NBLC75BVZ17				9.73
8218			NBTC75BXX5			5.00
8241	NBNC75PNS7	NBNC75BLP7				6.47
8241F	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
8281		NBNC75BXY9				8.23
8281F		NBNC75BYY9				8.23
9221			NBTC75BLI4			4.06
CANARE						
L-4CFB	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
L-5CFB		NBNC75BYY11				8.23
LV-61S	NBNC75PNS7	NBNC75BLP7				6.47
LV-77S		NBNC75BYY9				8.23
V(3-5)-3C	NBNC75PGE7	NBNC75BGG7				5.00
V(3-5)-4CFB	NBNC75PLE9	NBNC75BJJ9				5.41
V(3-5)-5C	NBNC75PVS9	NBNC75BRS9				7.01
V(3-5)-5CFB	NBNC75PVS11	NBNC75BWS11				7.01
L-1.5C2VS			NBTC75BLI4			4.06
COMMSCOPE						
2065V	NBNC75PIE9	NBNC75BIJ9				5.41
2279V	NBNC75PQS11	NBNC75BQP11				6.47
5563	NBNC75PNS7	NBNC75BLP7				6.47
5565	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
5765	NBNC75PTS11	NBNC75BTU11				7.36
7536 (03-05)			NBTC75BXX6			5.00
7538	NBNC75PDE6	NBNC75BDD6				4.53
CANFORD						
SDV, SDM	NBNC75PFE7	NBNC75BFG7				5.00
SDV-L, SDV-F	NBNC75PVS11	NBNC75BWS11				7.01
SDV-HD		NBLC75BVZ17				9.73
SDV-F-HD		NBNC75BWU13				7.36
DRAKA MULTIMEDIA CABLE						
0.31 / 1.45 AF, 753-1304(2), 755-1302			NBTC75BFI4	NBTB75CFI4		4.06
0.41 / 1.9 AF, 753-1104, 755-1103, 755-1101			NBTC75BNN5	NBTB75CNN5		4.53
0.51 / 2.3 Dz, 757-1001, VADN 7243		NBTC75BVX6				5.00
0.6 / 2.8 AF, 0.6 L / 2.8 AF	NBNC75PFE7	NBNC75BFG7				5.00
0.6 / 3.7, 0.6L / 3.7	NBNC75PNS7	NBNC75BLP7				6.47
0.6 / 3.7 Dz	NBNC75PNS7	NBNC75BLS7				7.01
0.8 / 3.7 AF, 755-801(803, 804)	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
0.8 / 4.9 Dz		NBNC75BXY9				8.23
1.0 / 4.8 AF, 755-901/5	NBNB75PTS11	NBNC75BUU11			NBNB75GUU11	7.36
1.2L / 4.8Dz, 1.2L / 4.95AF		NBNC75BWU13				7.36
1.4 / 6.6 AF		NBLC75BSX14				9.73
1.6 / 7.3AF		NBLC75BVZ17				9.73



Cable to Connector Guide

	Push Pull	Rear Twist	Rear Twist Tiny	Cable Jack Tiny	Cable Jack Panel	Hex Crimp in mm
GEPCO						
VPM2000	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
VSD2001	NBNC75PTS11	NBNC75BTU11				7.36
SUHNER						
G02233			NBTC75BFI4	NBTB75CFI4		4.06
G04233D	NBNC75PNS7	NBNC75BLS7				7.01
S02223			NBTC75BLI4			4.06
S04233, S04263	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
S05133-07	NBNC75PTS11	NBNC75BTU11				7.36
S05163-02	NBNC75PTS11	NBNC75BTU11				7.36
OTHERS						
AT&T 735			NBTC75BSS5			4.53
COMM-TEC RGBHV			NBTC75BSS5			4.53
Argosy (Dranka) Image 360		NBNC75BFG7				5.00
Argosy (Dranka) Image 720		NBNC75BLP9				6.47
Argosy (Dranka) Image 1000	NBNC75PTS11	NBNC75BUU11			NBNB75GUU11	7.36
BBC PSF 1/3*	NBNC75PNS7	NBNC75BLS7				7.01
BESCA France - Bengat			NBTC75BNS4			4.53
CAE MC75			NBTC75BLI5	NBTB75CLI5		4.06
CAE MC75.39			NBTC75BVX6			5.00
CAE KX6A	NBNC75PNS7	NBNC75BLP7				6.47
CAE VCB75	NBNC75PNS9	NBNC75BNP9				6.47
CAE VCB 100		NBNC75BXU13				7.36
Cordial CVI 3-7	NBNC75PFE7	NBNC75BFG7				4.53
Cordial CVI 06-28	NBNC75PFE7	NBNC75BFG7				5.00
Cordial CVI (CVM) 06-37	NBNC75PNS7	NBNC75BLP7				6.47
COVID CVD 1300-1500			NBTC75BLI5	NBTB75CLI5		4.06
Eupen 705 CRT 5V-HS	NBNC75PTS11	NBNC75BTS11				7.36
Extron BNC-5HR			NBTC75BNN5	NBTB75CNN5		4.53
Extron BNC-5RC	NBNC75PGE7	NBNC75BFG7				5.00
Helix 734	NBNC75PNS9	NBNC75BNP9				6.47
Helix 735			NBTC75BSS5			4.53
Hirschmann KOKA 712Cu	NBNC75PTS9	NBNC75BTS9				6.47
Kansai 0.5M3C-2V	NBNC75PGE7					-
Kansai 3C-5S	NBNC75PFE6	NBNC75BFH6				5.00
KLOTZ						
V06/28, VMXx75Y	NBNC75PFE7	NBNC75BFG7				5.00
V06/37	NBNC75PNS7	NBNC75BLP7				6.47
V10/48	NBNC75PTS11	NBNC75BUU11			NBNB75GUU11	7.36
V16/72		NBLC75BVZ17				9.73
KROSCHU (341 270, 341 280)			NBTC75BLI4			4.06
Nexans						
HF 75 0.6/2.9 02YS(ST)CH		NBNC75BFG7				5.00
HF 75 1.6/7.2 02Y(ST)C(ST)H		NBNC75BVZ17				9.73
HF 75 0.6/3.7 2YCY		NBNC75BLP7				6.47
RG11		NBLC75BVZ17				9.73
RG59B/U	NBNC75PNS7	NBNC75BLP7				6.47
RG179B/U			NBTC75BLI4			4.06
SOMMER						
600-0051 (M/L/S)	NBNC75PNS7	NBNC75BLP7				6.47
600-0054 (M/L/S)	NBNC75PNS7	NBNC75BLP7				6.47
600-0101M	NBNC75PFE7	NBNC75BFG7				5.00
600-0104M	NBNC75PFE7	NBNC75BFG7				5.00
600-162(F)	NBNC75PLS9	NBNC75BLP9				6.47
600-025* -03 (05)			NBTC75BLI5	NBTB75CLI5		4.06
600-0701			NBTC75BLI5	NBTB75CLI5		4.06
600-020* -03 (05)			NBTC75BLI5	NBTB75CLI5		4.06
600-0451	NBNC75PLS9	NBNC75BLP9			NBNB75GLP9	6.47
600-0751			NBTC75BVX6			5.00
Wisi MK 99A	NBNC75PVS12	NBNC75BWS12				7.01
ZNK CM14B			NBTC75BFI4	NBTB75CFI4		4.06

* Registered trademark of BBC

Connector to Cable Guide

	Pin crimp mm (square)	Hex crimp mm	Inner Conductor	Insulator	Cable O.D.
PUSH PULL					
NBNC75PDE6	1.6	N/A	< 0.6	< 2.65	4.0 - 5.0
NBNC75PFE6	1.6	N/A	< 0.6	< 2.85	4.0 - 5.0
NBNC75PFE7	1.6	N/A	< 0.7	< 2.85	4.0 - 5.0
NBNC75PGE7	1.6	N/A	< 0.7	< 3.2	4.0 - 5.0
NBNC75PIE9	1.6	N/A	< 0.9	< 3.5	4.0 - 5.0
NBNC75PLE9	1.6	N/A	< 0.9	< 3.65	4.0 - 5.0
NBNC75PLS9	1.6	N/A	< 0.9	< 3.65	6.0 - 7.0
NBNC75PNS7	1.6	N/A	< 0.7	< 3.75	6.0 - 7.0
NBNC75PNS9	1.6	N/A	< 0.9	< 3.75	6.0 - 7.0
NBNC75PQS11	1.6	N/A	< 1.1	< 4.3	6.0 - 7.0
NBNC75PTS9	1.6	N/A	< 0.9	< 4.6	6.0 - 7.0
NBNC75PTS11	1.6	N/A	< 1.1	< 4.6	6.0 - 7.0
NBNC75PVS9	1.6	N/A	< 0.9	< 4.9	6.0 - 7.0
NBNC75PVS11	1.6	N/A	< 1.1	< 4.9	6.0 - 7.0
NBNC75PVS12	1.6	N/A	< 1.2	< 4.9	6.0 - 7.0
REAR TWIST					
NBLC75BVZ17	1.75 (Hex crimp)	9.73	< 1.7	< 8.0	< 10.4
NBLC75BSX14	1.75 (Hex crimp)	9.73	< 1.4	< 6.6	< 9.5
NBNC75BDD6	1.6	4.53	< 0.6	< 2.8	< 4.3
NBNC75BFG7	1.6	5.00	< 0.7	< 3.1	< 4.7
NBNC75BFH6	1.6	5.00	< 0.6	< 3.1	< 4.9
NBNC75BGG7	1.6	5.00	< 0.7	< 3.2	< 4.7
NBNC75BIJ9	1.6	5.41	< 0.9	< 3.6	< 5.3
NBNC75BIJ9	1.6	5.41	< 0.9	< 3.8	< 5.3
NBNC75BJP9	1.6	6.47	< 0.9	< 3.8	< 6.3
NBNC75BLP7	1.6	6.47	< 0.7	< 3.8	< 6.3
NBNC75BLP9	1.6	6.47	< 0.9	< 3.8	< 6.3
NBNC75BLS7	1.6	7.01	< 0.7	< 3.8	< 6.9
NBNC75BNP9	1.6	6.47	< 0.9	< 4.1	< 6.3
NBNC75BQP11	1.6	6.47	< 1.1	< 4.5	< 6.3
NBNC75BRS9	1.6	7.01	< 0.9	< 4.8	< 6.9
NBNC75BTS9	1.6	7.01	< 0.9	< 4.7	< 6.9
NBNC75BTS11	1.6	7.01	< 1.1	< 4.7	< 6.9
NBNC75BTU11	1.6	7.36	< 1.1	< 4.7	< 7.3
NBNC75BUU11	1.6	7.36	< 1.1	< 4.7	< 7.3
NBNC75BTY11	1.6	8.23	< 1.1	< 4.7	< 8.0
NBNC75BWS11	1.6	7.01	< 1.1	< 5.1	< 6.9
NBNC75BWS12	1.6	7.01	< 1.2	< 5.1	< 6.9
NBNC75BWU13	1.6	7.36	< 1.4	< 5.1	< 7.3
NBNC75BXU13	1.6	7.36	< 1.4	< 5.1	< 7.3
NBNC75BXY9	1.6	8.23	< 0.9	< 5.1	< 8.0
NBNC75BYY9	1.6	8.23	< 0.9	< 5.2	< 8.0
NBNC75BYY11	1.6	8.23	< 1.1	< 5.2	< 8.0
REAR TWIST TINY					
NBTC75BFI4	1.6	4.06	< 0.4	< 1.6	< 2.9
NBTC75BLI4	1.6	4.06	< 0.4	< 1.8	< 2.9
NBTC75BLI5	1.6	4.06	< 0.5	< 1.8	< 2.9
NBTC75BNN5	1.6	4.53	< 0.5	< 2.0	< 3.1
NBTC75BNS4	1.6	4.53	< 0.4	< 2.0	< 3.5
NBTC75BSS5	1.6	4.53	< 0.5	< 2.3	< 3.4
NBTC75BVV5	1.6	5.00	< 0.5	< 2.5	< 3.8
NBTC75BVX6	1.6	5.00	< 0.6	< 2.5	< 4.0
NBTC75BXX5	1.6	5.00	< 0.5	< 2.6	< 4.0
NBTC75BXX6	1.6	5.00	< 0.6	< 2.6	< 4.0
CABLE JACKS (TINY & PANEL VERSION)					
NBTB75CFI4	1.6	4.06	< 0.4	< 1.6	< 2.9
NBTB75CNS5	1.6	4.53	< 0.5	< 2.0	< 3.1
NBTB75CLI5	1.6	4.06	< 0.5	< 1.8	< 2.9
NBNB75GLP9	1.6	6.47	< 0.9	< 3.8	< 6.3
NBNB75GUU11	1.6	7.36	< 1.1	< 4.9	< 7.3
NBNB75ILP9	1.6	6.47	< 0.9	< 3.8	< 6.3
NBNB75IUU11	1.6	7.36	< 1.1	< 4.9	< 7.3



Cable Type

Belden 1855A; CommScope 7538
 Kansai 3C-5S
 Belden 1855ENH; Cordial CVI 06-28, CVI 3-7; Canford SDM, SDV-LFH; Draka 0.6/2.8 AF, 0.6L/2.8 AF; Sommer 600-0101M, 600-0104M, KLOTZ V06/28, VMXx75Y
 Canare V(3-5)-3C; Extron BNC-5RC
 Belden 1506A; CommScope 2065V
 Canare V(3-5)-4CFB
 Belden 1505A (ANH), Belden 1505F; 8241F; CommScope 5565; Canare L-4CFB; Draka 0.8/3.7 AF, 755-801 (803,804); Gepco VPM2000; Suhner S04263; Sommer 600-0451, 600-162(F), 804
 Belden 8241; BBC PSF 1/3, CAE KX6A; CommScope 5563; Cordial CVI (CVM) 06-37; Suhner G04233D; Canare LV-61S; RG59B/U; Draka 0.6/3.7, 0.6/3.7 Dz, 0.6L/3.7;
 Sommer 600-0051 (M,L,S), 600-0054 (M,L,S), KLOTZ V06/37
 CAE VCB75; Helix 734
 Belden 1695A; CommScope 2279V
 Hirschmann KOKA 712Cu
 Belden 1694A (ANH), 1694F; CommScope 5765; Draka 1.0/4.8 AF, 755-901/5, Argosy (Draka) Image 1000; Eupen 705 CRT 5V-HS; Gepco VSD2001; Suhner S05133-07 S05163-02, KLOTZ V10/48
 Canare V(3-5)-5C
 Canare V(3-5)-5CFB; Canford SDV-F, SDV-L
 Wisi MK 99A

Belden 7731A (ANH); Canford SDV-HD; Draka 1.6/7.3AF; KLOTZ V16/72; RG11; Nextans HF 75 1.6/7.2 02Y(ST)C(ST)H
 Draka 1.4 / 6.6 AF
 Belden 1855A; CommScope 7538
 Argosy (Draka) Image 360; Belden 1855ENH; Canford SDM, SDV-S-LFH; Cordial CVI 06-28, CVI 3-7; Draka 0.6/2.8 AF, 0.6L/2.8 AF; Extron BNC-5RC;
 Sommer 600-0101M, 600-0104M, KLOTZ V06/28, VMXx75Y; Nexans HF 75 0.6/2.9 02YS(ST)CH
 Kansai 3C-5S
 Canare V(3-5)-3C
 Belden 1506A; CommScope 2065V
 Canare V(3-5)-4CFB
 Belden 1505F
 Belden 8241; CAE KX6A; Canare LV-61S; Cordial CVI (CVM) 06-37; CommScope 5563; Draka 0.6/3.7, 0.6L/3.7 ; RG59B/U; Sommer 600-0051 (M,L,S), 600-0054 (M,L,S),
 KLOTZ V06/37; Nextans HF 75 0.6/3.7 2YCY
 Argosy (Draka) Image 720; Belden 1505A (ANH), 8241F; Canare L-4CFB; CommScope 5565; Draka 0.8/3.7 AF, 755-801 (803, 804); Gepco VPM2000; Suhner S0426;
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 BBC PSF 1/3; Draka 0.6/3.7 Dz, 755-801 (803, 804); Suhner G04233D (PTT 6010)
 CAE VCB75; Helix 734
 Belden 1695A; CommScope 2279V
 Canare V(3-5)-5C
 Hirschmann KOKA 712Cu
 Eupen 705 CRT 5V-HS
 Belden 1694A (ANH); CommScope 5765; Gepco VSD2001; Suhner S05163-02, 05133-07
 Belden 1694A; CommScope 5765; Gepco VSD2001; Suhner S05163-02, 05133-07; Argosy (Draka) Image 1000
 Belden 1694F
 Canare V(3-5)-5CFB; Canford SDV-L, SDV-F
 Wisi MK 99A
 Canford SDV-F-HD; Draka 1.2L/4.8Dz, 1.2L/4.95AF
 CAE VCB 100
 Belden 8281; Draka 0.8/4.9Dz
 Belden 8281F; Canare LV-77S
 Canare L-5CFB

Belden 1520A, 1521A, 1522A, 179DT; Draka 0.31/1.45 AF, 753-1304(2), 755-1302; Suhner G02233, ZNK CM14B
 Canare L-1.5C2VS; Suhner S02223; Kroschu (341 270, 341 280); RG 179 B/U; Sommer 600-025-03 (05)
 CAE MC75; Procom; Sommer 600-0701, 600-20-03 (05), 600-025-03 (05)
 Belden 1277R, 1278R, 1279R; Draka 0.41/1.9AF, 753-1104, 755-1103; Extron BNC-5 HR(P) (Bulk), BNC-5RC
 TESCA France - Bengat
 AT&T 735; CommTech RGBHV
 Belden 1406B, 1407B, 1417B
 CAE NC75.39; Draka 755-1001 (0.51/2.3Dz), 757-1001; Sommer 600-0751; VADN 7243
 Belden 8218
 Belden 1865A; CommScope 7536

Belden 1520A, 1521A, 1522A, 179DT; Draka 0.31/1.45 AF, 753-1304(2), 755-1302; Suhner G02233; ZNK CM14B
 Draka 0.41/1.9 AF, 753-1104, 755-1101; 755-1103; Extron BNC 5 HR(P) (Bulk)
 CAE MC75; Sommer 600-0701, 600-20-03 (05), 600-025-03 (05)
 Belden 1505A, 8241F; Canare L-4CFB; CommScope 5565; Draka 0.8/3.7 AF, 755-801 (803, 804); Gepco VPM2000; Suhner S04263; Sommer 600-0451
 Draka 1.0/4.8AF, 755-901/5, Argosy (Draka) Image 1000, KLOTZ V10/48
 Belden 1505A, 8241F; Canare L-4CFB; CommScope 5565; Draka 0.8/3.7 AF, 755-801 (803, 804); Gepco VPM2000; Suhner S04263; Sommer 600-0451
 Draka 1.0/4.8AF, 755-901/5, Argosy (Draka) Image 1000, KLOTZ V10/48



D-shape metal housing



Gold plated center pin

Bulkhead Jacks



NBB75FI



NBB75DFG



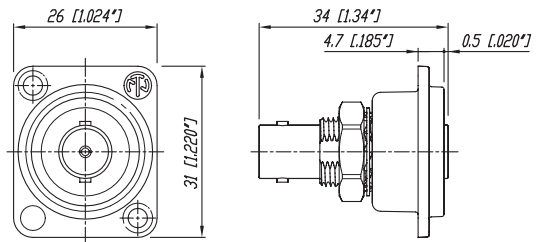
NBB75DFGB



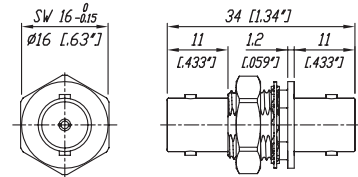
NBB75SI

- True 75 Ω design meets the stringent HDTV / DVD requirements
- Isolated or grounded versions
- "D" shaped housing (provides flush mounting and protection of the jacks from damage) or single feed through mountings
- Gold plated center contact

NBB75DFG



NBB75FI



Ordering Information

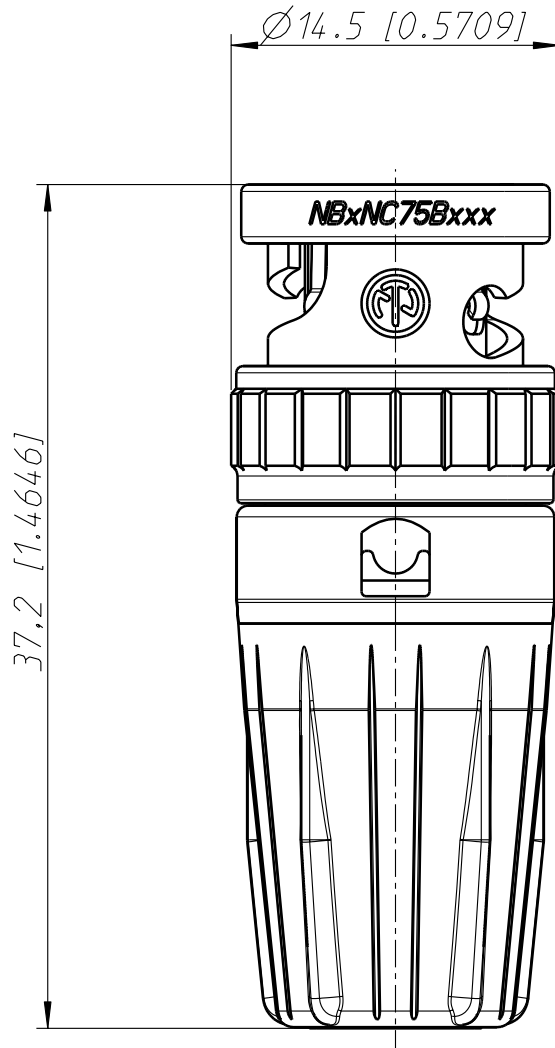
	Nickel housing	Black housing
Bulkhead jack, D-shape housing, feed through, grounded	NBB75DFG	NBB75DFGB
Bulkhead jack, D-shape housing, feed through, isolated	NBB75DFI	NBB75DFIB
Bulkhead jack, D-shape housing, solder version, grounded	NBB75DSG	NBB75DSGB
Bulkhead jack, D-shape housing, solder version, isolated	NBB75DSI	NBB75DSIB
Bulkhead jack, feed through, grounded	NBB75FG	
Bulkhead jack, feed through, isolated	NBB75FI	
Bulkhead jack, solder version, including isolation washers	NBB75SI	



Technical Specifications

Specifications		Rear Twist® & Rear Twist Large & Cable Jack Panel	Rear Twist® Tiny & Cable Jack Tiny	Push Pull	Bulkheads
Electrical					
Impedance	75 Ω	•	•	•	•
Rated voltage	500 V ac rms	•	250 V ac rms	•	•
Insulation resistance	> 5 GΩ	•	•	•	•
Dielectric withstanding voltage	1500 V ac rms	•	750 V ac rms	•	•
VSWR / Return Loss	≤ 1.050 / > 32 dB up to 1 GHz	•	≤ 1.10 / > 26 dB up to 1 GHz	•	≤ 1.03 / > 37 dB up to 1 GHz
	≤ 1.065 / > 30 dB up to 2 GHz	•	≤ 1.14 / > 24 dB up to 2 GHz	•	≤ 1.05 / > 32 dB up to 2 GHz
	≤ 1.100 / > 26 dB up to 3 GHz	•	≤ 1.22 / > 20 dB up to 3 GHz	•	≤ 1.08 / > 28 dB up to 3 GHz
Inner contact resistance	≤ 3 mΩ (initial)	•	•	•	•
Outer contact resistance	≤ 2 mΩ (initial)	•	•	•	•
Mechanical					
Cable anchoring	Jacket crimping	•	•	Neutrik® chuck principle	N / A
Cable O.D. range	mm	4.0 - 7.7	2.5 - 3.8	4.0 - 8.0	N / A
- Rear Twist Large		10.3	-	-	-
Center contact retention	> 30 N	•	•	•	-
Engagement force	< 25 N	•	•	< 20 N	•
Lifetime	1'000 mating cycles	•	•	•	•
Environmental					
Temperature range	-30°C to +85°C	•	•	-30°C to +40°C	•
Solderability	Complies with IEC 68-2-20	•	•	•	N / A
Contact crimpability	Complies with IEC 60803 and IEC 60352-2	•	•	•	N / A
Materials					
Shell: Brass (CuZn39Pb3), OPTALLOY coated		•	•	•	•
PA6 (Push Pull only)		N / A	N / A	•	N / A
D-Shape housing: Zinc diecast (ZnAl4Cu1) gal Ni or black Cr plating		N / A	N / A	N / A	•
Ground contact:					
Bronze (CuSn6), 0.2 μm AuCo over 2 μm NiP15		•	•	•	-
Brass (CuZn39Pb3), OPTALLOY coated		-	-	-	•
Center contact:					
Brass (CuZn35Pb2), 0.2 μm AuCo or		•	•	•	-
Brass (CuZn39Pb3), 0.2 μm AuCo		-	-	-	•
Insulator: Teflon PTFE		•	•	•	•
Chuck: Polyacetal POM		N / A	N / A	•	N / A
Insulation Shell: Polyacetal POM		N / A	N / A	N / A	•
Center Contact:					
I.D. in mm	Materials	Plating	Coding Ring (# of rings on base of contact)		
0.4	Brass (CuZn39Pb3)	2 μm AuCo	0		
0.5	•	•	5		
0.6	•	•	1		
0.7	•	•	2		
0.9	•	•	3		
1.1	•	•	6		
1.2	•	•	4		
1.7	•	•	0		

NBNC75B



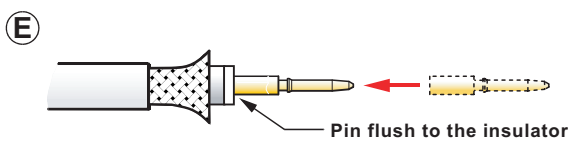
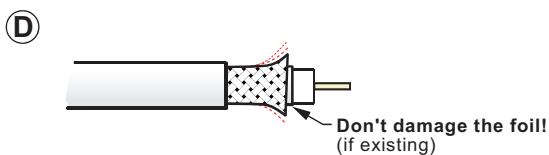
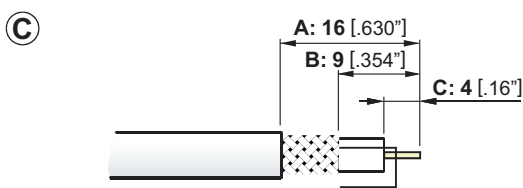
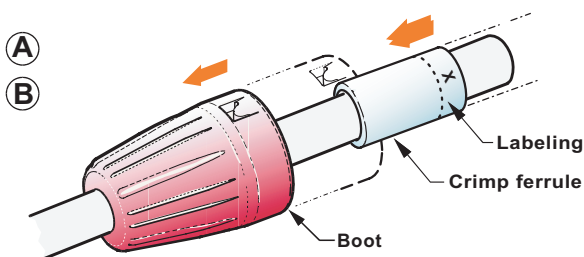
Allgemeintoleranzen ISO 2768-m	Werkstoff -	Massstab: 3:1 (A4)	Datum	Name
			Gezeichnet	12.04.00
Zeichnung urheberrechtlich geschuetzt (DIN 34) (C)	-	-	Freigegeben	-
	-	-	Geaendert	-
Benennung			Aend.-Nr.	Aend.-Index
NBNC 75B			-	-
Rear Twist BNC			Ersatz fuer: 3102ST2502	Blatt 1 von 1 Bl.
NEUTRIK AG FL-9494 SCHAAN			Zeichn. Nr.	ST-NBNC 75B

Rear Twist BNC

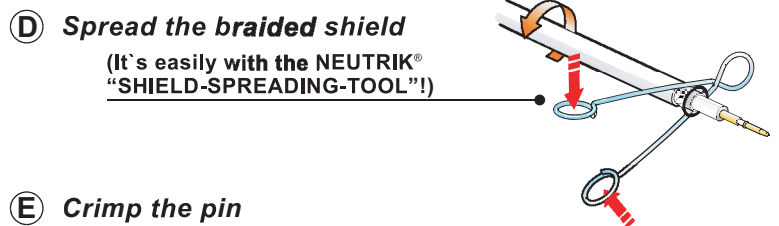
75Ω Cable Connector

Crimp version

Assembly Instructions

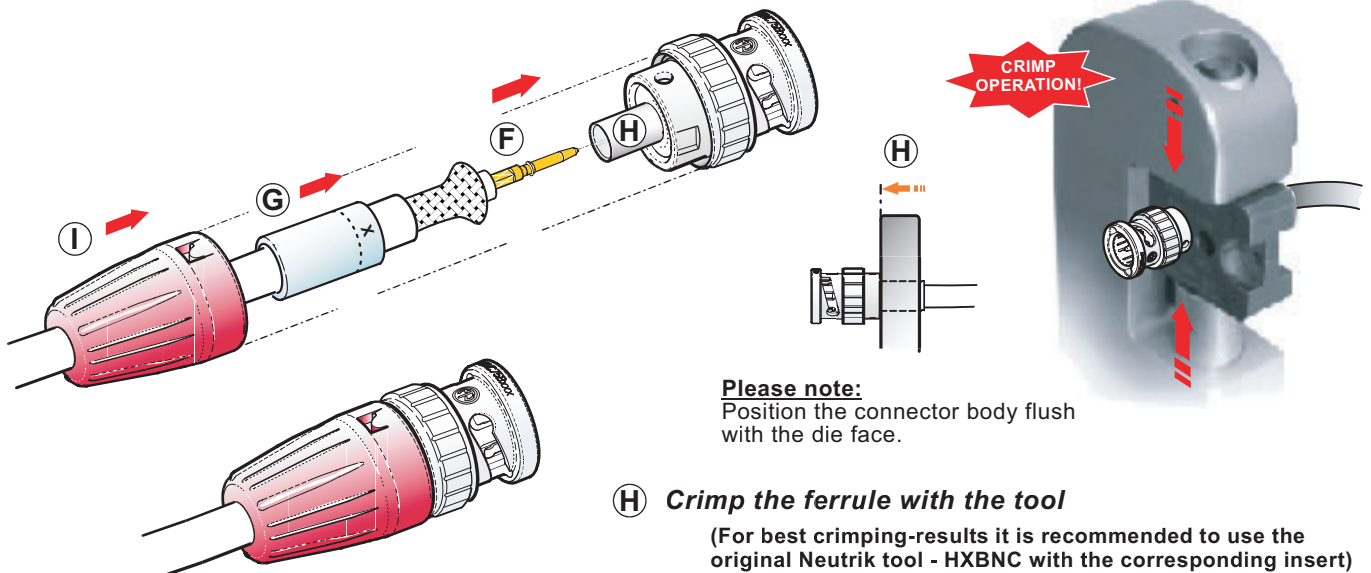


- (A) Slide the boot onto the cable**
- Position the labeling to the cable end
- (B) Slide the crimp ferrule onto the cable**
- (C) Prepare cable as shown**
- Use an adjustable coaxial cable stripper



- (D) Spread the braided shield**
(It's easily with the NEUTRIK® "SHIELD-SPREADING-TOOL"!)
- (E) Crimp the pin**
- position the pin on the center conductor
- **Crimp the pin with the tool**
(For best crimping-results it is recommended to use the original Neutrik crimp tool
- HXBNC with the corresponding insert
- hexcrimp acc. to IEC 803-W (SW 1.7)
or squarecrimp acc. to IEC 803-2 (SW 1.6)
- **Pin can also be soldered (Optional)!**
- **Straighten the pin if misaligned.**

- (F) Insert the cable into the connector body**
- (G) Slide the crimp ferrule over the shield to the front and push the cable and leading ferrule to it's end position until you hear a snap noise.**



Please note:
Position the connector body flush with the die face.

- (H) Crimp the ferrule with the tool**
(For best crimping-results it is recommended to use the original Neutrik tool - HXBNC with the corresponding insert)
- (I) Snap the boot onto the connector body**

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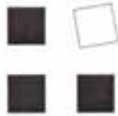
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Update: 06.03. 2006

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NEUTRIK®
CONNECTING THE WORLD



Test Certificate

Neutrik RearTwist[®] 75 Ω BNC Connector

Applicant:
Neutrik AG
Im alten Riet 143
FL-9494 Schaan

Authors

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Revised
Reviewed
Approved

1.0
6
March, 31st 2005

M. Diergardt
FL

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0 Object

Measurement of Return Loss and Screening Attenuation of Neutrik Reartwist[®] BNC connectors attached to different types of video coax cables in the frequency range up to 3 GHz.

The Return Loss of the single BNC connector should be isolated from the cable by adequate gating in the time domain.

The Screening Attenuation is determined on one representative cable assembly.

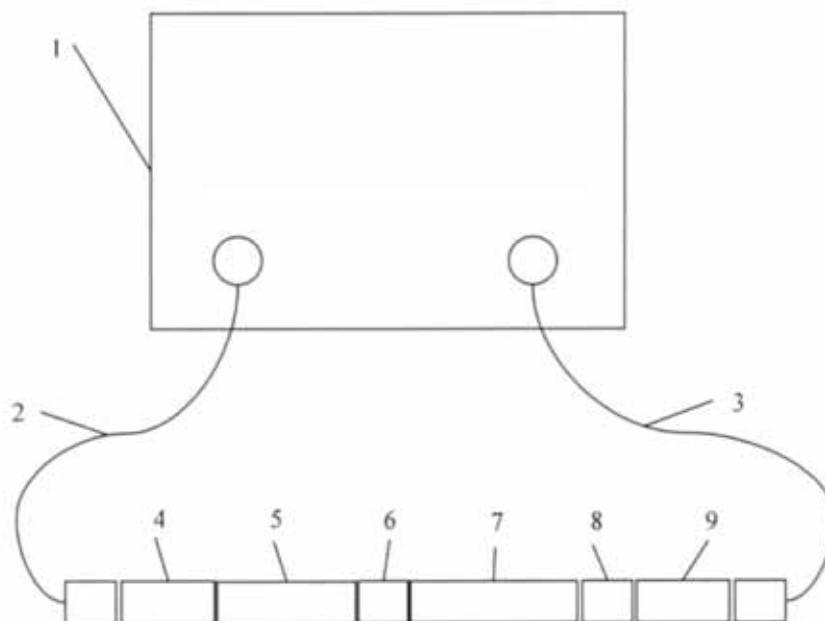
1 Return Loss

1.1 Test Specimens

Neutrik RearTwist® 75 Ω BNC connectors assembled to cables of 1 m length each:

1. NBNC75BFG7 with cable Draka 0.6/2.8 AF
2. NBNC75BLP9 with cable Draka 0.8/3.7 AF
3. NBNC75BUU11 with cable Draka 1.0/4.8 AF
4. NBNC75BTU11 with cable Belden 1694A

1.2 Test Setup



1.2.1 Test equipment:

- 1 NWA HP 8720 D Ser US36140759 Cal. 16.2.2005
- 2 Test cable SUCOFLEX 104PEA Ser 21148/4PEA
- 3 Test cable SUCOFLEX 104PEA Ser 21147/4PEA
- 4 Matching Pad HP 11852B Opt. 004 Ser 01100
- 5 H+S air-filled line 75 Ω 40 cm
- 6 Adapter N 75 Ω to BNC 75 Ω
- 7 DUT (test specimen – cable assembly 75 Ω with 75 Ω BNC connectors)

- 8 Adapter BNC 75 Ω to N 75 Ω
- 9 Matching Pad HP 11852B Ser 09798

1.2.2 Test method:

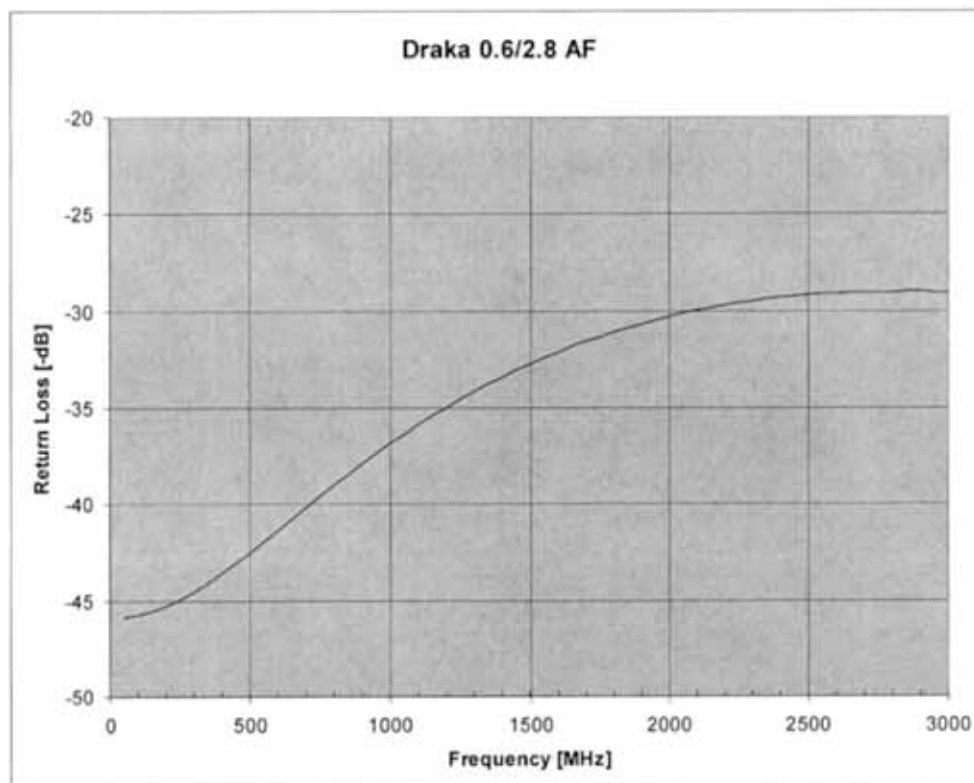
Separate measurement of a single connector of the DUT is established by inverse Fourier transformation and corresponding gating in the time domain to isolate the effect of the attached cable and the mating coupling adapter N-BNC too. The latter is supposed to introduce additional error at the applied high frequencies due to reduced matching of the transition N type to BNC. Finally the measured curves are obtained by transformation back to frequency domain.

1.2.3 Calibration:

Cal Kit: N 75 Ω HP85036B Ser 3103A01321 Cal. 30.8.2004
 Frequency range: 50 MHz – 10.05 GHz
 Type: Full 2-Port Calibration
 No. of points: 201
 IF: 1000 Hz

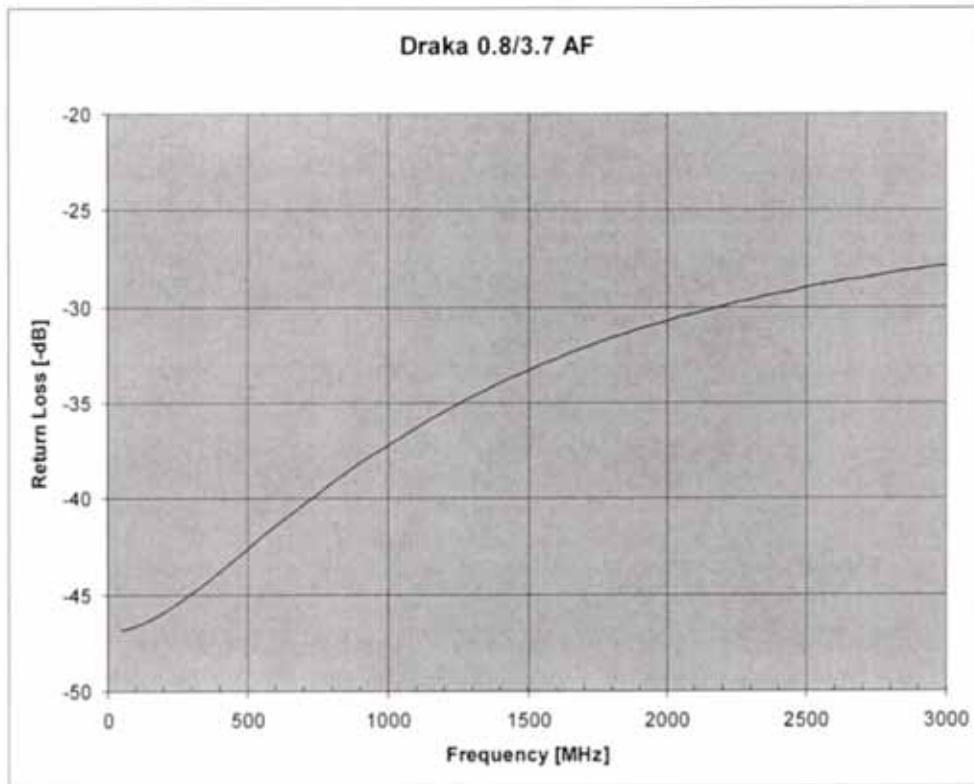
1.3 Test Results

Return Loss – NBNC75BFG7:



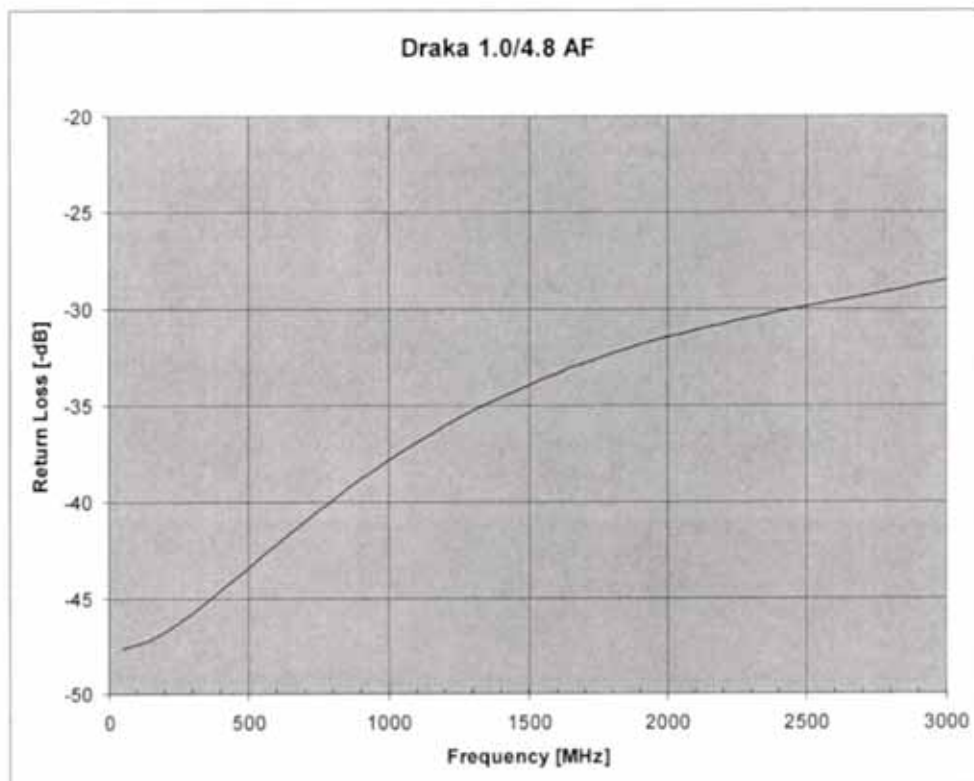
Frequ. [GHz]	RL [dB]
1	36.85
2	30.28
3	29.04

Return Loss – NBNC75BLP9:



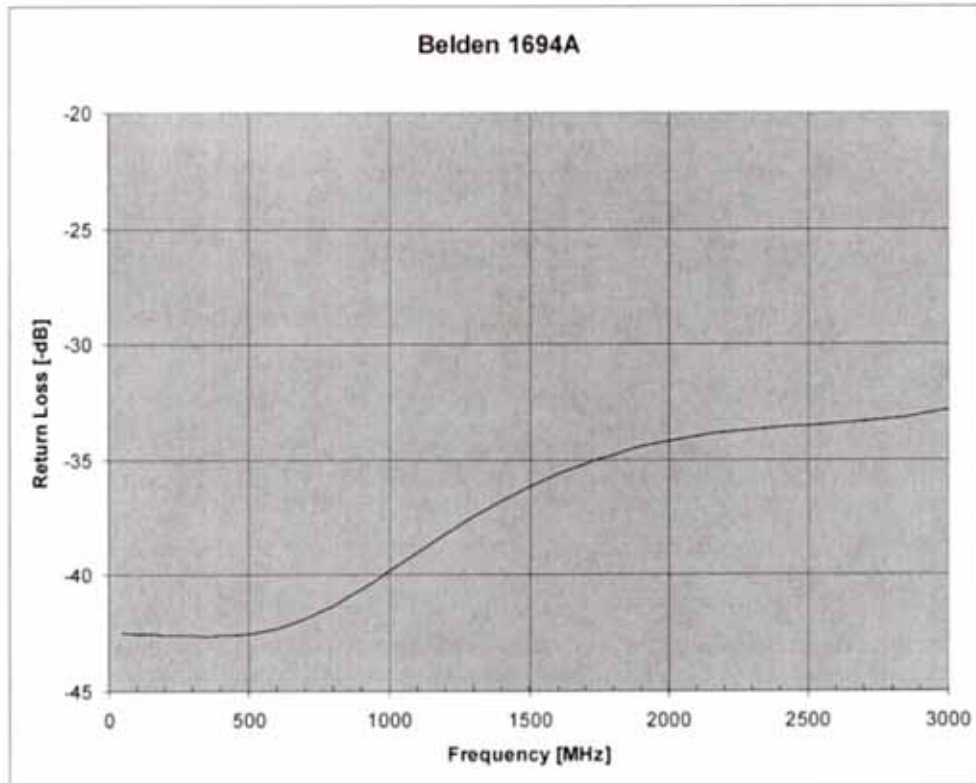
Frequ. [GHz]	RL [dB]
1	37.2
2	30.71
3	27.83

Return Loss – NBNC75BUU11:



Frequ. [GHz]	RL [dB]
1	37.83
2	31.49
3	28.55

Return Loss – NBNC75BTU11



Frequ. [GHz]	RL [dB]
1	39.83
2	34.17
3	32.82

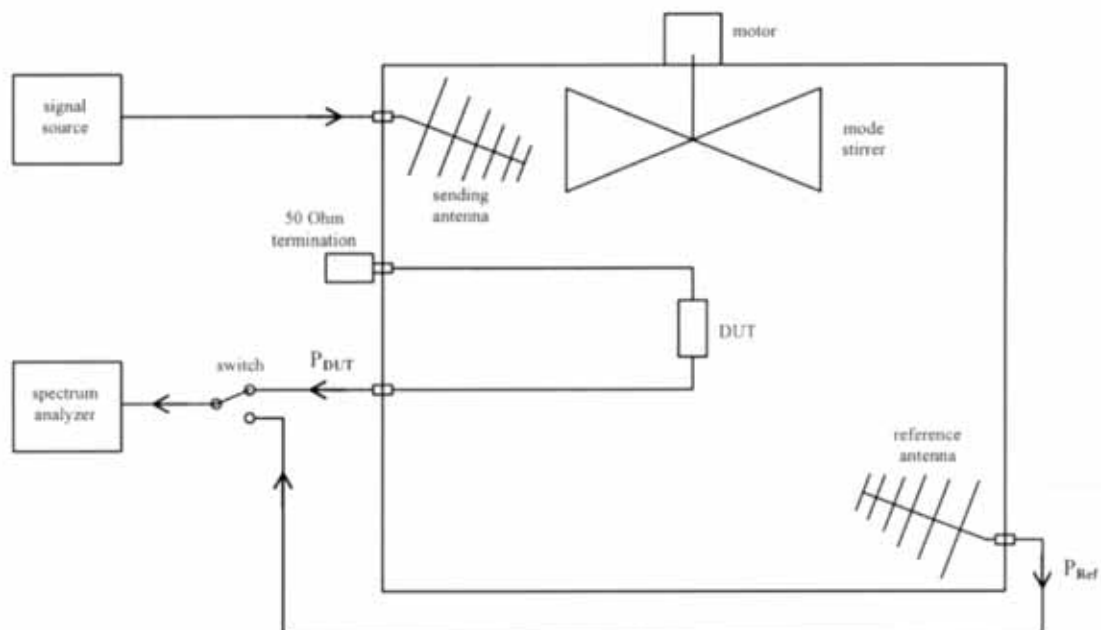
2 Screening Attenuation

2.1 Test Specimen

Cable assembly Draka 0.8/3.7 AF (1 m length) assembled with two NBNC75BLP9 is taken as representative DUT.

2.2 Test Setup

Test method and equipment according to IEC 61726: *Screening attenuation measurement by the reverberation chamber method.*



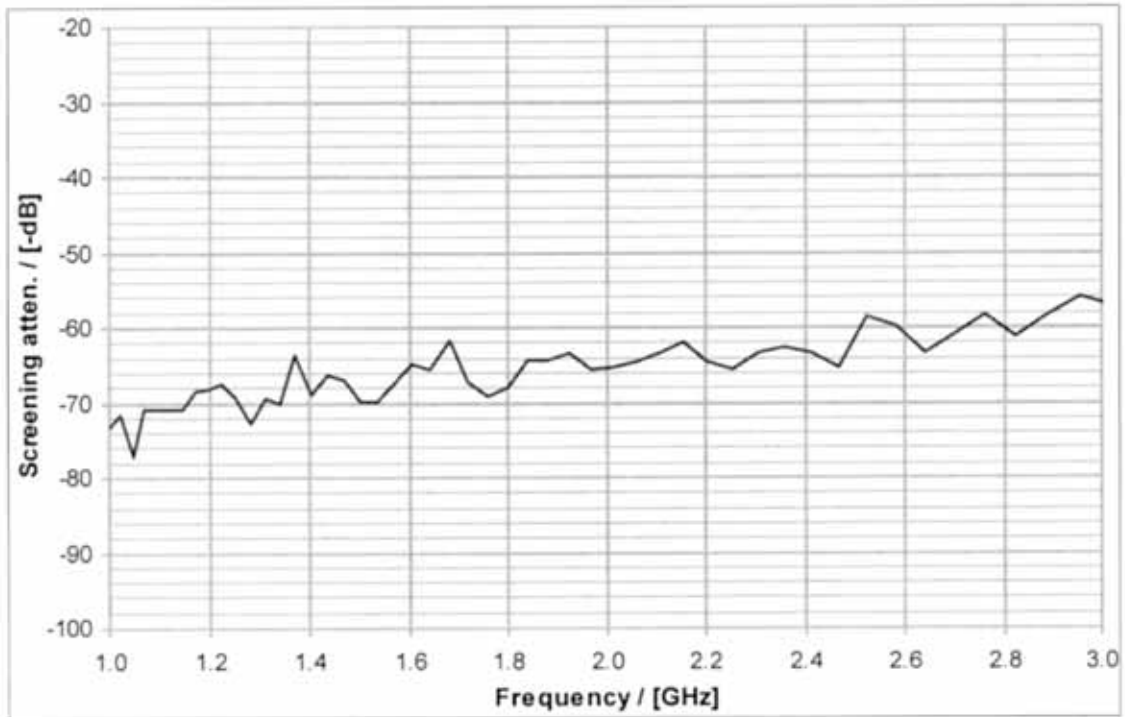
The screening attenuation is defined as:

$$a_s = -10 \log \left(\frac{P_{DUT}}{P_{REF}} \right) \text{ [dB]}$$

The BNC connectors of the DUT are coupled to the test circuit via BNC to SMA adapters of type H+S 33_SMA-BNC-50-1/1 which again are connected via semi-rigid cables to the ports of the reverberation chamber.

As a result the complete assembly including the cable is evaluated.

2.3 Test Result



The shielding factor of the cable is specified to be > 80 dB in the frequency range up to 1 GHz. Thus the effect of the cable should be negligible in comparison to the results obtained.

In case of equal performance of both BNC couplers the result of one single BNC could be estimated to be about 3 dB better.

As a result of the mode stirring used in this test method, the obtained curve is not a smooth one. The measurements are oscillating around a mean curve typically in an order of magnitude of ± 3 dB. These normal oscillations should not be confused with resonances of the DUT.

Therefore the true screening attenuation under free space conditions can be said roughly to be the average curve.