

## BNC (75 Ω) - Coaxial Connectors with Bayonet Coupling Mechanism for Applications up to 1 GHz

BNC- 75 Ω connectors are applied with an optimum frequency up to 1 GHz (max. 4 GHz). Characteristic features are reliable quality standard as well as fast and easy connections with a two stud bayonet coupling mechanism.

50 Ω and 75 Ω versions can be interconnected without restriction.

### Product Features

- Interface compatible to IEC 60169- 8, CECC 22 120, MIL- PRF- 39012
- Quality tested according to US MIL- STD 202
- Frequency range optimum up to 1 GHz, max. up to 4 GHz
- Bayonett coupling mechanism
- Interchangeable with BNC, 50 Ω version.

### Product Range

- Cable connectors (straight and right angle) for flexible cables
- PCB connectors (straight and right angle)
- Panel connectors in various flanges
- Gas- tight versions
- Adaptors
- Terminations
- Accessories.

Further connectors are available on request.

### Application Examples

Commonly used connector series for various applications in data systems and telecommunication.

## BNC (75 Ω) - Koaxialsteckverbinder mit Bajonett- Verschluss für Anwendungen bis 1 GHz

BNC- 75- Ω- Steckverbinder werden bis zu Frequenzen von bis zu 1 GHz optimal (max. 4 GHz) eingesetzt. Zuverlässiger Qualitätsstandard sowie schnelles und einfaches Verbinden mit dem 2- nockigen Bajonett- Verschluss sind charakteristisch für diese Standard- Serie.

50- Ω- und 75- Ω- Typen sind uneingeschränkt miteinander koppelbar.

### Produkteigenschaften

- Interface kompatibel zu IEC 60169- 8, CECC 22 120, MIL- PRF- 39012
- Qualitätsprüfung gemäß US MIL- STD 202
- Frequenzbereich optimal bis 1 GHz, max. bis zu 4 GHz
- Bajonett- Verschluss
- Steckkompatibel mit BNC, 50- Ω- Variante.

### Produktspektrum

- Kabelsteckverbinder (gerade und gewinkelt) für flexible Kabel
- Leiterplatten- Steckverbinder (gerade und gewinkelt)
- Gehäuse- Steckverbinder in verschiedenen Flanschen
- Druckdichte Ausführungen
- Adapter
- Abschlusswiderstände
- Zubehör.

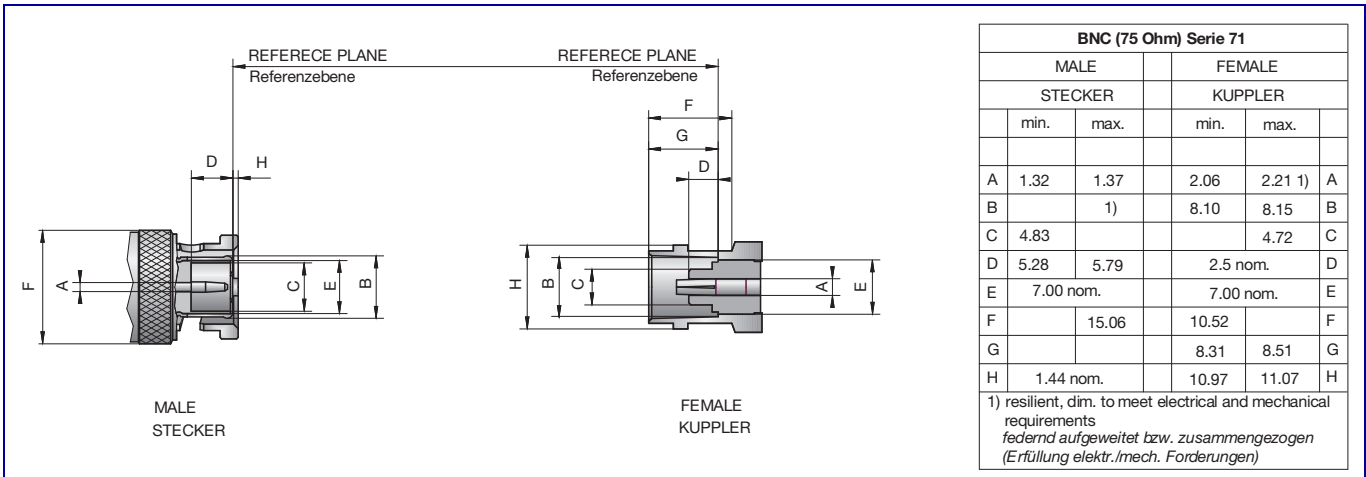
Weitere Steckverbinder auf Anfrage erhältlich.

### Anwendungsbeispiele

Standard- Koaxial- Steckverbinderserie mit vielfältigen Einsatzmöglichkeiten in der Datentechnik und Telekommunikation.

Interface Dimensions

Anschlussmaße



## Technical Data

## Technische Daten

Applicable standards		Anwendbare Standards
Interface compatible with	IEC 60169-8, MIL-PRF-39012, CECC 22120	Interface kompatibel mit
Quality tested according to	US MIL-STD 202	Qualitätsprüfung gemäß

Electrical data		Elektrische Daten
Impedance	75 Ω	Wellenwiderstand
Frequency range	max. 0...4 GHz opt. 0...1 GHz	Frequenzbereich
Insertion loss	$\leq 0.1 \times \sqrt{f}$ (GHz) dB	Dämpfung
Insulation resistance	$\geq 5 \times 10^3$ MΩ	Isolationswiderstand
Center contact resistance	$\leq 1.5$ mΩ	Kontaktwiderstand Innenleiter
Outer contact resistance	$\leq 1$ mΩ	Kontaktwiderstand Außenleiter
Test voltage	1500 V rms	Prüfspannung
Working voltage	400 V rms	Betriebsspannung
Power handling	$\leq 80$ W @ 2 GHz	Leistungsbelastbarkeit

Mechanical data		Mechanische Daten
Mating cycles	$\geq 500$	Steckzyklen
Center contact captivation	axial $\geq 27$ N	Innenleiter Haltekraft

Environmental data		Umweltdaten
Temperature range	-65°C - +165°C	Temperaturbereich
Thermal shock	US MIL-STD 202, Meth. 107, Cond. B	Temperaturzyklen
Vibration	US MIL-STD 202, Meth. 204, Cond. B	Vibration
Shock	US MIL-STD 202, Meth. 213, Cond. G	Schock
Moisture resistance	US MIL-STD 202, Meth. 106	Feuchtigkeitsbeständigkeit
Corrosion resistance	US MIL-STD 202, Meth. 101, Cond. B	Korrosionsbeständigkeit
Degree of protection (mated pair)	IEC 60529	Schutzgrad für gekoppeltes Paar

Materials		Materialien
Body, outer contact	CuZn	Gehäuse, Außenleiter
Spring loaded contact parts	CuBe	Federnde Kontaktteile
Pin contacts	CuZn	Stiftkontakte
Dielectric	PTFE	Dielektrikum
Crimping ferrule	Copper Alloy	Crimphülse
Gasket	Rubber	Dichtung
Plating outer contact	Ni/white bronze	Oberfläche Außenleiter
Plating center contact	Au	Oberfläche Innenleiter

Rosenberger-connectors fulfill in principle the indicated data of the Technical Data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and execution. Specific data sheets for particular products can be provided on request from your Rosenberger sales partner.

*Rosenberger-Steckverbinder erfüllen grundsätzlich die in den Technischen Daten angegebenen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte von Steckverbindern hiervon abweichen. Spezifische Datenblätter zu einzelnen Produkten erhalten Sie auf Anfrage von Ihrem Rosenberger-Ansprechpartner.*

## Cable Connectors - Flexible Cables

## Kabel-Steckverbinder - Flexible Kabel

## Straight Plug, crimp

## Stecker gerade, klemm

## Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Packing Unit	
71 S 106-002 N4	captivated center contact	02	51 E	1	
71 S 106-009 N4	captivated center contact	09	51 E	1	

## Straight Plug, crimp

## Stecker gerade, crimp

## Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Packing Unit	Crimp Inserts	
71 S 107-802 N4		02	51 T	1	11 W 150-402	
71 S 107-803 N4		03	51 T	1	11 W 150-402	
71 S 102-109 N4	a = 30; b = 12	09	51 P1	1, 100	11 W 150-209	
71 S 103-109 N4	a = 30; b = 12; CuBe outer contact	09	51 P1	1	11 W 150-109	
71 S 102-110 N4	a = 30; b = 12	09, 10	51 K4	1	11 W 150-209	
71 S 102-113 N4	a = 30; b = 12	13	51 P6	1	11 W 150-213	
71 S 102-114 N4	a = 30; b = 12	14	51 P6	1	11 W 150-212	
71 S 101-118 N4	a = 33.5; b = 15.5	18	51 P4	100	11 W 100-209	
71 S 102-126 N4	a = 35.6; b = 15.5	26	51 P4	1	11 W 150-226	
71 S 102-128 N4	a = 30; b = 12	28	51 P1	1	11 W 150-211	
71 S 102-140 N4	a = 27; b = 9	40	51 P1	1, 100	11 W 150-204	
71 S 102-141 N4	a = 31; b = 13.5	41	51 P1	1	11 W 150-206	
71 S 102-1V6 N4	a = 27; b = 9	V6	51 P1	1, 100	11 W 150-204	
71 S 102-1T6 N4	a = 30; b = 12	T6	51 P6	1	11 W 150-213	
71 S 102-1T7 N4	a = 30; b = 14	T7	51 P	1	11 W 150-208	

## Right Angle Plug, solder-crimp

## Winkelstecker, löt-crimp

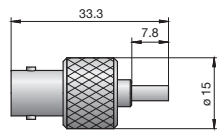
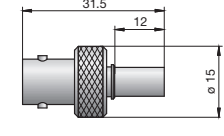
## Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Packing Unit	Crimp Inserts	
71 S 207-302 N4	a = 7; b = 14.7	02	51 M2	100	11 W 150-102	
71 S 201-309 N4	a = 12; b = 19.7	09	51 M	100	11 W 150-109	
71 S 201-340 N4	a = 9; b = 16	40	51 M1	1	11 W 150-104	

**Straight Jack, crimp**

*Kuppler gerade, crimp*

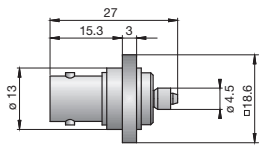
**Flexible Cables**

Ordering Number	Cable Group	Assembly Instruction	Packing Unit	Crimp Inserts	
71 K 107-802 N4	02	51 T	50	11 W 150-402	
71 K 101-109 N4	09	51 P	1	11 W 150-209	
71 K 101-110 N4	09, 10	51 K	1	11 W 150-209	

**Panel Jack, insulated, 4- hole flange**

*Gehäusekuppler, isoliert, 4- Loch- Flansch*

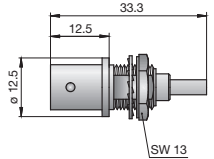
**Flexible Cables**

Ordering Number	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit	
71 K 440-302 N4	4 x Ø 2.7	02	51 V	B 101a	1	

**Panel Jack, crimp, round flange**

*Gehäusekuppler, crimp, Rundflansch*

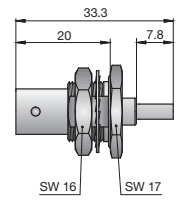
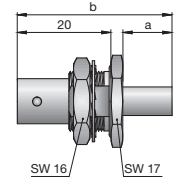
**Flexible Cables**

Ordering Number	Version	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit	Crimp Inserts	
71 K 507-802 N4	front mount	02	51 T	B 2	1, 100	11 W 150-402	

**Panel Jack, crimp, hexagonal flange**

*Gehäusekuppler, crimp, 6- kant- Flansch*

**Flexible Cables**

Ordering Number	Version	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit	Crimp Inserts	
71 K 607-802 N4	rear mount		02	51 T	B 3	1	11 W 150-402	
71 K 611-109 N4	rear mount	a = 12; b = 34.5	09	51 P	B 3	1	11 W 100-209	
71 K 611-110 N4	rear mount	a = 12; b = 34.5	09, 10	51 K	B 3	1	11 W 100-209	

Panel Connectors - Solder End

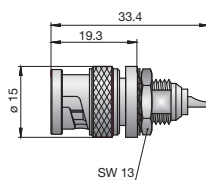
Gehäuse-Steckverbinder - Lötkehlch

Panel Plug, round flange

Gehäusestecker, Rundflansch

Solder End

Ordering Number	Version	Panel Piercing / PCB Layout	Packing Unit
71 S 501- 200 N4	front mount	B 2	1

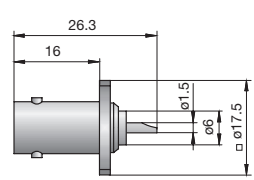


Panel Jack, 4- hole flange

Gehäusekuppler, 4- Loch- Flansch

Solder End

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
71 K 404- 200 N4	4 x Ø 3.1	B 6	1

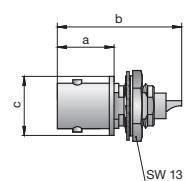


Panel Jack, round flange

Gehäusekuppler, Rundflansch

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
71 K 504- 200 N4	front mount	a = 12; b = 26; c = 12.5	B 2	1
71 K 506- 200 N4	front mount	a = 12; b = 30; c = 12.5	B 2	1
71 K 508- 200 N4	front mount	a = 14; b = 33; c = 15, pressurized	B 1	1

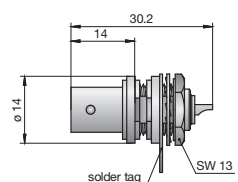


Panel Jack, insulated, round flange

Gehäusekuppler, isoliert, Rundflansch

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
71 K 546- 200 N4	front mount	71 K 506- 200 N4 with insulation washers and solder tag	B 3	1



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PCB Connectors - Solder Pin

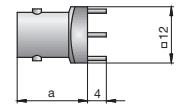
Leiterplatten-Steckverbinder - Löt-Pin

Straight Jack, PCB

Leiterplatten-Kuppler gerade

Solder Pin

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
71 K 101-400 A4	a = 15	B 32	50 blister
71 K 103-400 A4	a = 22	B 32	50 blister

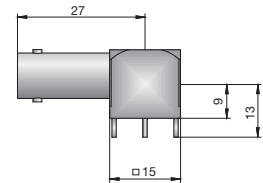
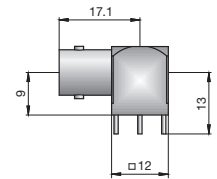


Right Angle Jack, PCB

Leiterplatten-Winkelkuppler

Solder Pin

Ordering Number	Panel Piercing / PCB Layout	Packing Unit
71 K 201-400 A4	B 32	50 blister
71 K 203-400 A4	B 33	25 blister

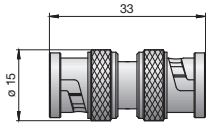
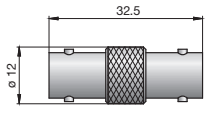
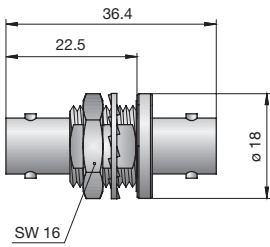
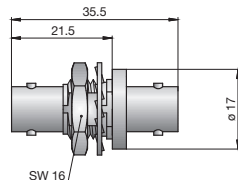


Adaptors (In- Serie)

Adapter (In- Serie)

Straight Adaptor

Adapter gerade

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
71 S 101- S00 N4	straight	BNC male - male		1	
71 K 101- K00 N4	straight	BNC female - female		1	
71 K 501- K00 N4	straight	BNC female - female; round flange	B 3	1	
71 K 542- K00 A4	straight	BNC female - female; round flange, insulated	B 3	1	

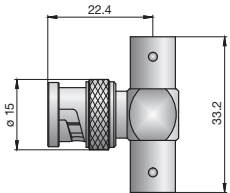
Right Angle Adaptor

Winkel- Adapter

Ordering Number	Version	Remarks	Packing Unit	
71 S 201- K00 N4	right angle	male - female	1	

T- Adaptor

T- Adapter

Ordering Number	Version	Remarks	Packing Unit	
71 S 301- K00 N4	T-Adapter	N female - male - female	1	

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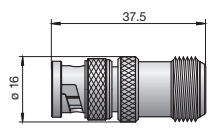
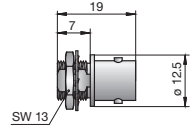
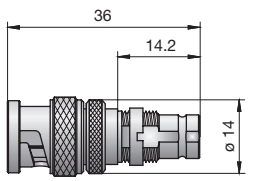
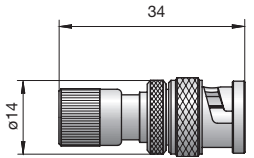
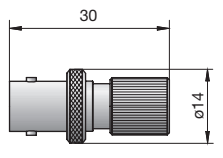
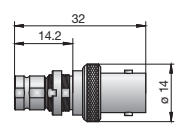
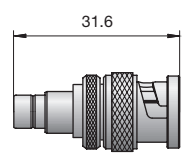


Adaptors (Between Series)

Adapter (serienübergreifend)

BNC - 75 Ω

BNC - 75 Ω

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
71 S 173- K00 N4	straight	BNC male 75 Ω - N female 75 Ω		1	
29 K 571- K00 N4	straight	MCX female - BNC female 75 Ω; round flange	B 1	1	
71 S 188- K00 H3	straight	BNC male - 1,6- 5,6 female, 75 Ω	B 27	1	
88 S 171- S00 H3	straight, Type A (screw-on coupling)	1.6- 5.6 male - BNC male, 75 Ω		1	
88 S 171- K00 H3	straight, Type A (screw-on coupling)	1.6- 5.6 male - BNC female, 75 Ω		1	
88 K 171- K00 H3	straight	1.6- 5.6 female - BNC female, 75 Ω	B 27	1	
759 S 171- S00 E3	straight	SMB 75 Ω male - BNC 75 Ω male		1	

## Terminations

## Abschlusswiderstände

## Termination Plug

## Abschlusswiderstand Stecker

Ordering Number	Remarks	Packing Unit	
71 S 1RR-001 N4	1 W; Frequency DC - 2 GHz VSWR < 1.2 @ DC to 1 GHz VSWR < 1.4 @ 1 to 2 GHz	1	

## Termination Jack

## Abschlusswiderstand Kuppler

Ordering Number	Remarks	Packing Unit	
71 K 1RR-001 N4	1 W; Frequency DC - 2 GHz VSWR < 1.2 @ DC to 1 GHz VSWR < 1.4 @ 1 to 2 GHz	1	