

SERIES

Serie

BNC (50 + 75 Ω) TNC (50 + 75 Ω)



BNC-TNC

BNC (50 Ω) - Coaxial Connectors with Bayonet Coupling Mechanism for Applications up to 4 GHz

BNC connectors belong to the most commonly used and widespread connector series for data system and telecom applications with an optimum frequency up to 4 GHz (max. 10 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 according to IEC 60169-8, CECC 22 120, MIL-PRF-39012 VG 95200
- Quality tested according to US MIL-STD 202
- Frequency range optimum up to 4 GHz, max. up to 10 GHz
- VSWR (straight connector): ≤ 1.20 typ.
- Bayonet coupling mechanism
- Intermateable with BNC, 75 Ω version.

Product Range

- Cable connectors (straight and right angle) for flexible, semi-flex and semi-rigid 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

The most commonly used and widespread connector series for various applications in data systems and telecommunication.

BNC (50 Ω) - Koaxialsteckverbinder mit Bajonett-Verschluss für Anwendungen bis 4 GHz

BNC-Steckverbinder zählen zu den in Datentechnik und Telekommunikation weltweit am häufigsten eingesetzten Steckverbindern.

Der Frequenzbereich reicht optimal bis zu 4 GHz (max. 10 GHz).

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 gemäß IEC 60169-8, CECC 22 120, MIL-PRF-39012 VG 95200
- Qualitätsprüfung gemäß US MIL-STD 202
- Frequenzbereich optimal bis 4 GHz, max. bis zu 10 GHz
- VSWR (gerader Steckverbinder): $\leq 1,20$ typ.
- Bajonett-Verschluss
- Steckkompatibel mit BNC, 75- Ω -Variante.

Produktspektrum

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

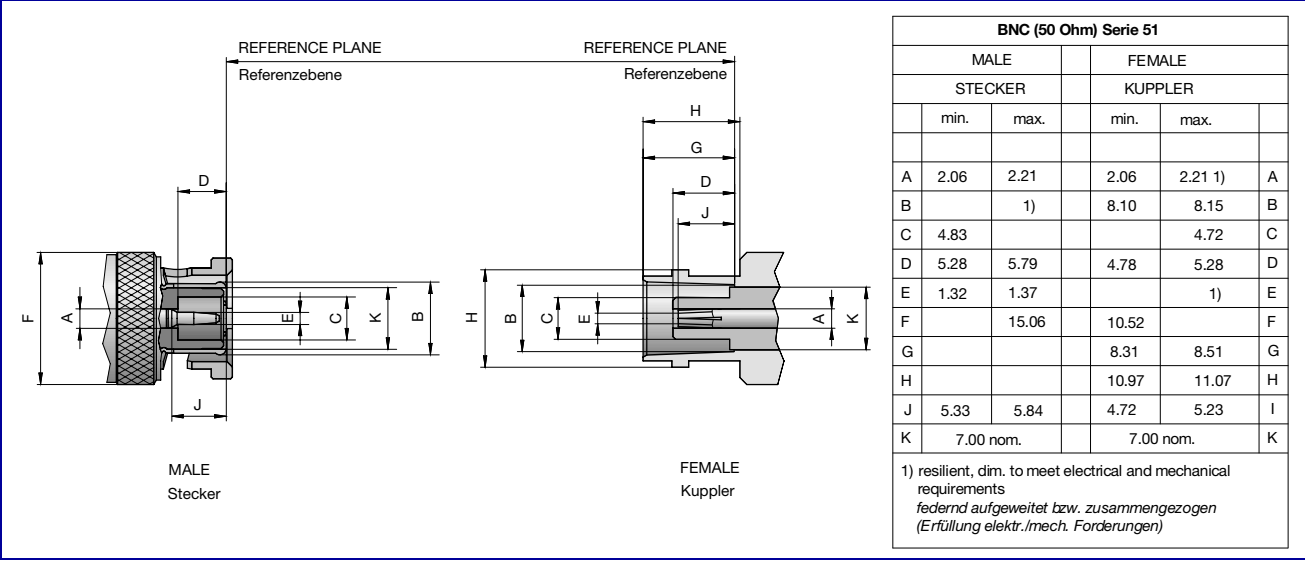
Weitere Steckverbinder auf Anfrage erhältlich.

Anwendungsbeispiele

Weit verbreitete Standard-Koaxial-Steckverbinderreihe mit vielfältigen Einsatzmöglichkeiten in der Datentechnik und Telekommunikation.

Interface Dimensions

Anschlussmaße



Technical Data

Technische Daten

Applicable standards		Anwendbare Standards
Interface according to	IEC 60169- 8, MIL- PRF- 39012, VG 95200, CECC 22120	Interface gemäß
Quality tested according to	US MIL- STD 202	Qualitätsprüfung gemäß

Electrical data		Elektrische Daten
Impedance	50 Ω	Wellenwiderstand
Frequency range	max. 0...10 GHz opt. 0...4 GHz	Frequenzbereich
VSWR	≤ 1.20 typ.	VSWR
Insertion loss	≤ 0.1 x √ f (GHz) dB	Dämpfung
Insulation resistance	≥ 5 x 10 ³ MΩ	Isolationswiderstand
Center contact resistance	≤ 1.5 mΩ	Übergangswiderstand Innenleiter
Outer contact resistance	≤ 1 mΩ	Übergangswiderstand Außenleiter
Test voltage	1500 V rms	Prüfspannung
Working voltage	400 V rms	Betriebsspannung
Power handling	≤ 80 W (2GHz)	Leistungsbelastbarkeit

Mechanical data		Mechanische Daten
Mating cycles	≥ 500	Steckzyklen
Center contact captivation	axial: ≥ 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
Climatic class	IEC 60068 65/165/21	Klimaklasse
Shock	US MIL- STD 202, Meth. 213, Cond. G	Schock
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 / CuSn	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 - Semi- Rigid Cable

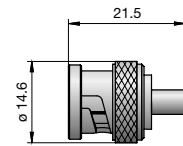
Kabel- Steckverbinder - Semi- Rigid- Kabel

Straight Plug, solder

Stecker gerade, löt

Semi- Rigid

Ordering Number	Cable Group	Assembly Instruction	Packing Unit
51 S 101- 272 B5	72	51 S2	1

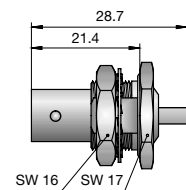


Panel Jack, solder, hexagonal flange

Gehäusekuppler, löt, 6- kant- Flansch

Semi- Rigid

Ordering Number	Version	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit
51 K 611- 271 N5	rear mount	71	51 S1	B 3	1
51 K 611- 272 N5	rear mount	72	51 S2	B 3	1



Cable Connectors - Flexible Cables

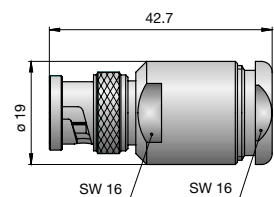
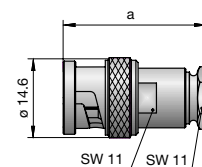
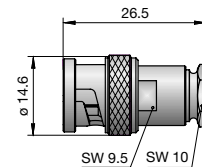
Kabel- Steckverbinder - Flexible Kabel

Straight Plug, clamp

Stecker gerade, klemm

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Packing Unit
51 S 101- 006 N5		06, 07, 08	51 A	1
51 S 104- 006 N5	a = 31.8; pressurized	06, 07, 08	51 C	1
51 S 106- 001 N5	a = 28.5; captivated center contact	01	51 E	1
51 S 106- 002 N5	a = 28.0; captivated center contact	02, 03	51 E	1
51 S 106- 006 N5	a = 28.0; captivated center contact	06, 07, 08	51 E	1
51 S 105- 015 N5		15, 17	51 D	1

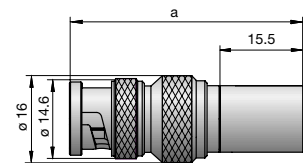
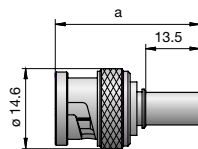
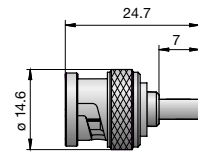


Straight Plug, crimp

Stecker gerade, crimp

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
51 S 107-801 N5		01	51 T	11 W 150-402	100
51 S 107-802 N5		02	51 T	11 W 150-402	1, 100
51 S 107-803 N5		03	51 T	11 W 150-402	100
51 S 107-106 N5	a = 29	06	51 P10	11 W 150-208	1, 100
51 S 103-106 N5	a = 31; CuBe outer contact	06	51 P1	11 W 150-206	1
51 S 107-108 N5	a = 29	07, 08	51 P10	11 W 150-208	1, 100
51 S 101-1M4 N5	a = 27.7	M4	51 P1	11 W 150-204	100
51 S 101-115 N5	a = 43	15	51 O	11 W 150-215	1
51 S 101-117 N5	a = 43	17	51 O	11 W 150-215	1

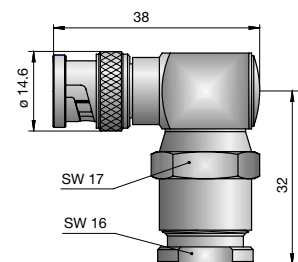
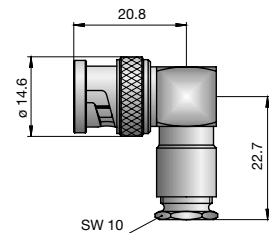


Right Angle Plug, clamp

Winkelstecker, klemm

Flexible Cables

Ordering Number	Cable Group	Assembly Instruction	Packing Unit
51 S 201-002 N5	02, 03	51 L	1
51 S 201-006 N5	06, 07, 08	51 L	1
51 S 201-015 N5	15, 17	53 F1	1

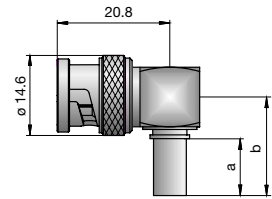
BNC
TNC

Right Angle Plug, solder crimp

Winkelstecker, löt-crimp

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
51 S 207-302 N5	a = 7.0; b = 14.7	02	51 M2	11 W 150-102	100
51 S 207-303 N5	a = 7.0; b = 14.7	03	51 M2	11 W 150-102	100
51 S 207-306 N5	a = 13.5; b = 21.2	06	51 M	11 W 150-108	100
51 S 207-308 N5	a = 13.5; b = 21.2	07, 08	51 M	11 W 150-108	100

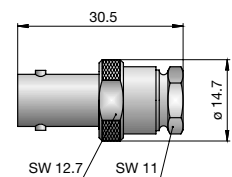


Straight Jack, clamp

Kuppler gerade, klemm

Flexible Cables

Ordering Number	Cable Group	Assembly Instruction	Packing Unit
51 K 106-002 N5	01	51 E	1
51 K 106-006 N5	01	51 E	1

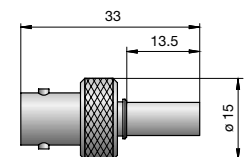
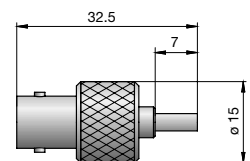


Straight Jack, crimp

Kuppler gerade, crimp

Flexible Cables

Ordering Number	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
51 K 107-801 N5	01	51 T	11 W 150-402	50
51 K 107-802 N5	02	51 T	11 W 150-402	50
51 K 107-803 N5	03	51 T	11 W 150-402	50
51 K 107-106 N5	06	51 P1	11 W 150-208	1
51 K 107-108 N5	07, 08	51 P1	11 W 150-208	1

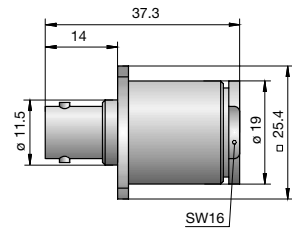
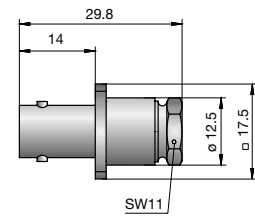


Panel Jack, clamp, 4- hole flange

Gehäusekuppler, klemm, 4- Loch- Flansch

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit
51 K 406- 006 N5	4 x 3- 56 UNF	06, 07, 08	51 E	B 6	1
51 K 405- 015 N5	4 x 6- 32 UNC	15, 17	51 D	B 9	1

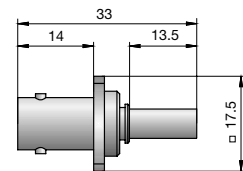
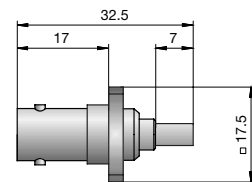


Panel Jack, crimp, 4- hole flange

Gehäusekuppler, crimp, 4- Loch- Flansch

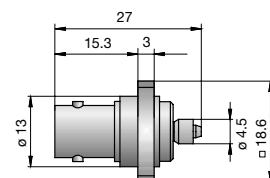
Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Crimp Inserts	Packing Unit
51 K 407- 801 N5	4 x M 2.5	01	51 T	B 101	11 W 150- 402	100
51 K 407- 802 N5	4 x M 2.5	02	51 T	B 101	11 W 150- 402	100
51 K 407- 803 N5	4 x M 2.5	03	51 T	B 101	11 W 150- 402	100
51 K 407- 106 N5	4 x 3- 56 UNF	06	51 P1	B 101	11 W 150- 206	1
51 K 407- 108 N5	4 x 3- 56 UNF	07, 08	51 P1	B 101	11 W 150- 208	1

Panel Jack, solder- crimp
insulated, 4- hole flangeGehäusekuppler, löt- crimp
isoliert, 4- Loch- Flansch

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit
51 K 440- 302 N5	4 x Ø 2.7	02	51 V	B 101a	1

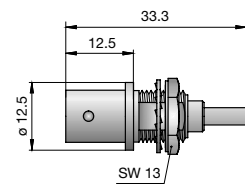
BNC
TNC

Panel Jack, crimp, round flange

Gehäusekuppler, crimp, Rundflansch

Flexible Cables

Ordering Number	Version	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Crimp Inserts	Packing Unit
51 K 507-801 N5	front mount	01	51 T	B 2	11 W 150-402	100
51 K 507-802 N5	front mount	02	51 T	B 2	11 W 150-402	100
51 K 507-803 N5	front mount	03	51 T	B 2	11 W 150-402	100

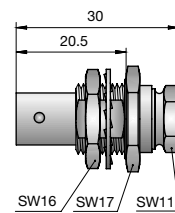


Panel Jack, clamp, hexagonal flange

Gehäusekuppler, klemm, 6- kant- Flansch

Flexible Cables

Ordering Number	Version	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit
51 K 606-001 N5	rear mount	captivated center contact	01	51 E	B 3	1
51 K 606-002 N5	rear mount	captivated center contact	02, 03	51 E	B 3	1
51 K 606-006 N4	rear mount	captivated center contact	06, 07, 08	51 E	B 3	1

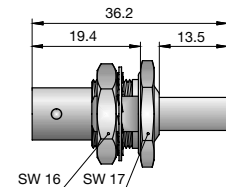
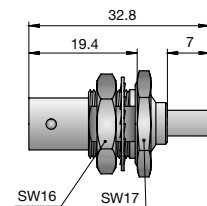


Panel Jack, crimp, hexagonal flange

Gehäusekuppler, crimp, 6- kant- Flansch

Flexible Cables

Ordering Number	Version	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Crimp Inserts	Packing Unit
51 K 607-801 N5	rear mount	01	51 T3	B 3	11 W 150-402	100
51 K 607-802 N5	rear mount	02	51 T	B 3	11 W 150-402	100
51 K 607-803 N5	rear mount	03	51 T	B 3	11 W 150-402	100
51 K 607-106 N5	rear mount	06	51 P10	B 3	11 W 150-208	1
51 K 607-108 N5	rear mount	07, 08	51 P10	B 3	11 W 150-208	100



Panel Connectors - Coaxial End

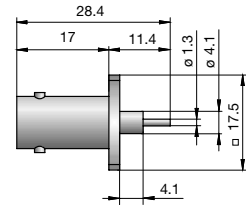
Gehäuse- Steckverbinder - Koaxiales Ende

Panel Jack, 4- hole flange

Gehäusekuppler, 4- Loch- Flansch

Coaxial End

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
51 K 405- 500 N5	4 x dia. 3.2	B 6	1



Panel Connectors - Solder End

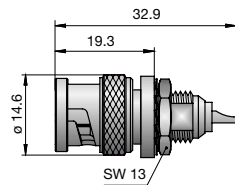
Gehäuse- Steckverbinder - Lötkehlch

Panel Plug, round flange

Gehäusestecker, Rundflansch

Solder End

Ordering Number	Version	Panel Piercing / PCB Layout	Packing Unit
51 S 501- 200 N5	front mount	B 2	1

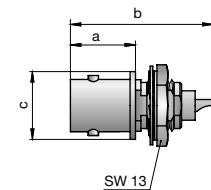


Panel Jack, round flange

Gehäusekuppler, Rundflansch

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
51 K 501- 200 N5	front mount	a = 13.8; b = 26; c = 14.4	B 1	100
51 K 502- 200 N5	front mount	a = 12.5; b = 26; c = 12.7	B 5	100
51 K 503- 200 N5	front mount	a = 12.5; b = 26; c = 14	B 18	100
51 K 504- 200 N5	front mount	a = 12; b = 26; c = 12.5	B 2	100
51 K 506- 200 N5	front mount	a = 12; b = 30; c = 12.5	B 2	1, 100
51 K 507- 200 N5	front mount	a = 13.8; b = 28.5; c = 14.8; pressurized	B 2	1
51 K 508- 200 N5	front mount	a = 14; b = 33; c = 14.8; pressurized	B 1	1
51 K 516- 200 B1	front mount	a = 12; b = 26.5; c = 12.5; with solder tags	B 2	100

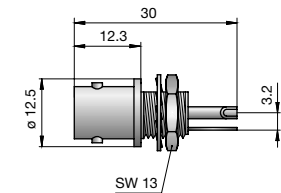
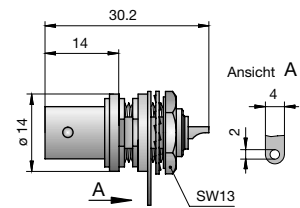
BNC
TNC

Panel Jack, insulated, round flange

Gehäusekuppler, isoliert, Rundflansch

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
51 K 546-200 N5	front mount	51 K 506-200 N4 with insulation washers and solder tag	B 3	1
51 K 553-200 N5	front mount		B 2	1

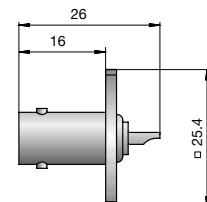
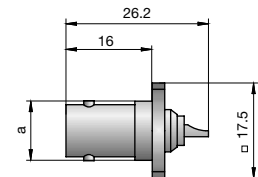


Panel Jack, 4- hole flange

Gehäusekuppler, 4- Loch- Flansch

Solder End

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
51 K 403-200 N5	4 x 3- 56 UNF, rim $\varnothing$ a = 10.9	B 6	50
51 K 404-200 N5	4 x $\varnothing$ 3.1, no rim	B 6	50
51 K 409-200 N5	4 x $\varnothing$ 3.4	B 9	1

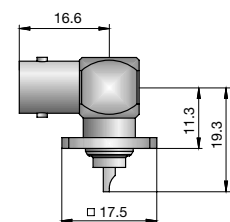


Right Angle Panel Jack, 4- hole flange

Flansch- Winkelkuppler, 4- Loch- Flansch

Solder End

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
51 K 201-200 N5	4 x $\varnothing$ 3.1	B 6	1



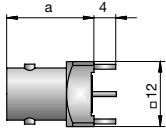
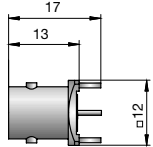
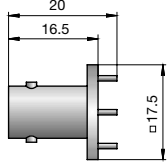
PCB Connectors - Solder Pin

Leiterplatten- Steckverbinder - Löt- Pin

Straight Jack, PCB

Leiterplatten- Kuppler gerade

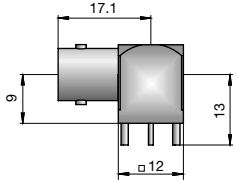
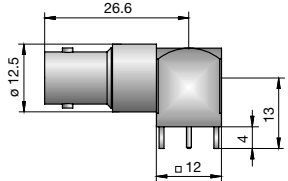
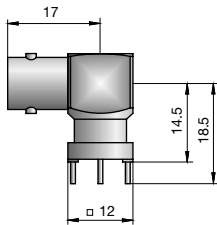
Solder Pin

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit	
51 K 101- 400 A5	a = 15, round pins	B 32	50 blister	
51 K 104- 400 A5	round pins	B 32	50 blister	
51 K 102- 400 A5	round pins	B 33	100	

Right Angle Jack, PCB

Leiterplatten- Winkelkuppler

Solder Pin

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit	
51 K 201- 400 A5	round pins	B 32	50 blister	
51 K 204- 400 A5	Ø 12.5 insulation sleeve, round pins	B 32	25 blister	
51 K 205- 40T A5	tinned solder tags	B 32	25 blister	

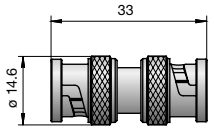
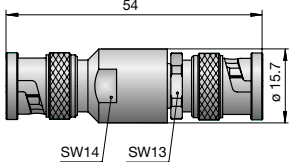
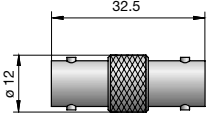
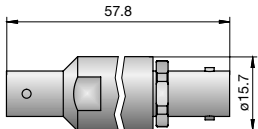
BNC
TNC

Adaptors (In- Serie)

Adapter (In- Serie)

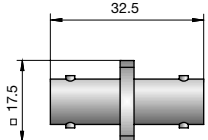
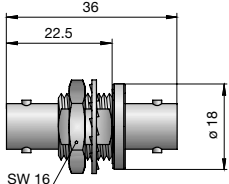
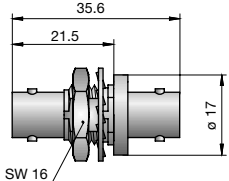
Straight Adaptor

Adapter gerade

Ordering Number	Version	Remarks	Return Loss	Packing Unit	
51 S 101- S00 N5	straight	BNC male - male		1	
51 S 121- S20 S3	straight	BNC male - male, calibration adaptor	≥ 34 dB @ DC to 2 GHz ≥ 30 dB @ 2 GHz to 4 GHz	1	
51 K 101- K00 N5	straight	BNC female - female		1	
51 K 121- K20 S3	straight	BNC female - female, calibration adaptor	≥ 34 dB @ DC to 2 GHz ≥ 30 dB @ 2 GHz to 4 GHz	1	

Panel Adaptor

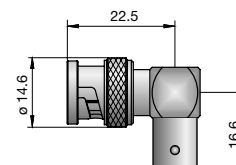
Gehäuse- Adapter

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
51 K 401- K00 N5	straight	BNC female - female; 4- hole flange	B 6	1	
51 K 501- K00 N5	straight	BNC female - female; round flange, pressurized	B 3	1	
51 K 542- K00 A5	straight	BNC female - female; round flange, insulated	B 3	1	

Right Angle Adaptor

Winkel- Adapter

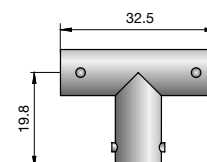
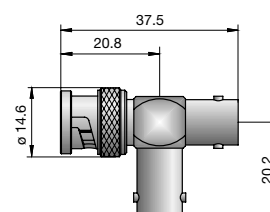
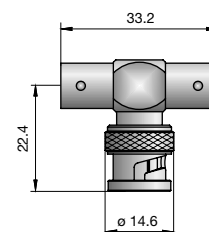
Ordering Number	Version	Remarks	Packing Unit
51 S 201- K00 N5	right angle	BNC male - female	1



T- Adaptor

T- Adapter

Ordering Number	Version	Remarks	Packing Unit
51 S 301- K00 N5	T- adaptor	BNC female - male - female	1
51 S 303- K00 N5	T- adaptor	BNC male - female - female	1
51 K 301- K00 N5	T- adaptor	BNC female - female - female	1

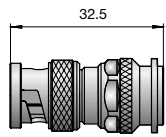
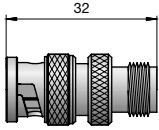
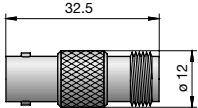
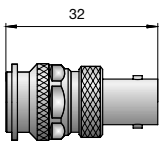
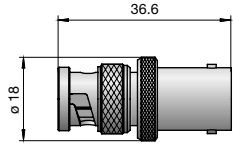
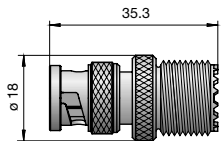
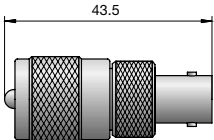
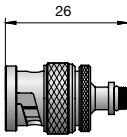
BNC
TNC

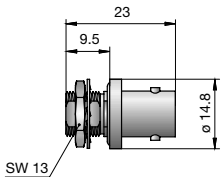
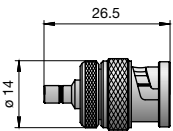
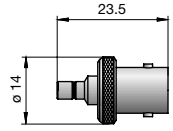
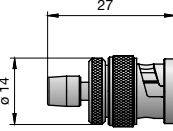
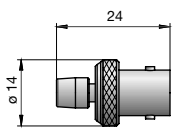
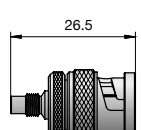
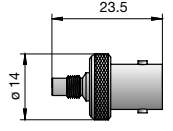
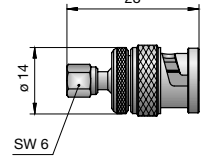
Adaptors (Inter Series)

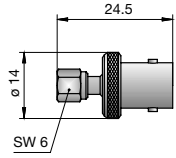
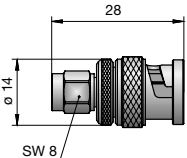
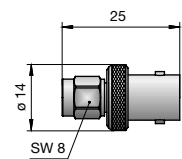
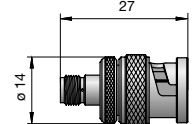
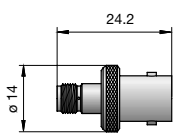
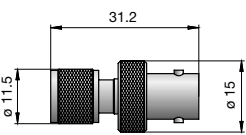
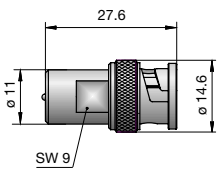
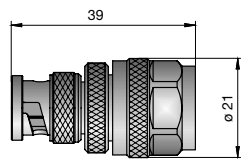
Adapter (serienübergreifend)

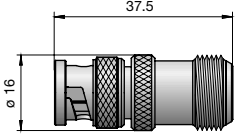
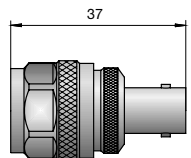
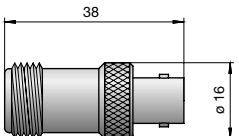
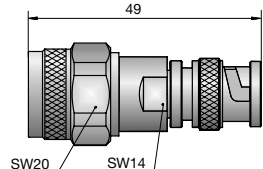
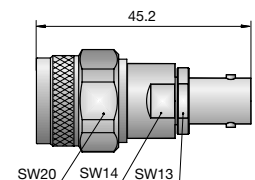
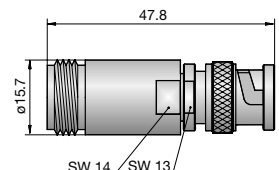
BNC - 50 Ω

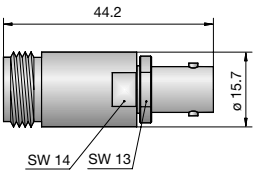
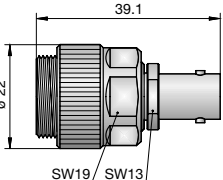
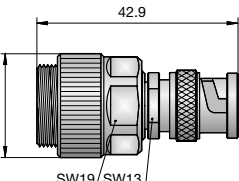
BNC - 50 Ω

Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
51 S 156- S00 N5	straight	BNC male - TNC male			1	
51 S 156- K00 N5	straight	BNC male - TNC female			1	
51 K 156- K00 N5	straight	BNC female - TNC female			1	
56 S 151- K00 N5	straight	TNC male - BNC female			1	
51 S 152- K00 N5	straight	BNC male - C female			1	
51 S 154- K00 N5	straight	BNC male - UHF female			1	
54 S 151- K00 A1	straight	UHF male - BNC female			1	
51 S 131- K00 N5	straight	BNC male - Microdot female			1	

Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
29 K 551- K00 A5	straight	MCX female - BNC female; round flange		B 2	1	
59 S 151- S00 L5	straight	SMB male - BNC male			1	
59 S 151- K00 L5	straight	SMB male - BNC female			1	
59 K 151- S00 L5	straight	SMB female - BNC male			1	
59 K 151- K00 L5	straight	SMB female - BNC female			1	
39 S 151- S00 L5	straight	SMC male - BNC male			1	
39 S 151- K00 L5	straight	SMC male - BNC female			1	
39 K 151- S00 L5	straight	SMC female - BNC male			1	

Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
39 K 151- K00 L5	straight	SMC female - BNC female			1	
32 S 151- S00 L5	straight	SMA male - BNC male			1	
32 S 151- K00 L5	straight	SMA male - BNC female			1	
32 K 151- S00 L5	straight	SMA female - BNC male			1	
32 K 151- K00 L5	straight	SMA female - BNC female			1	
24 S 151- K00 A1	straight	Mini- UHF male - BNC female			1	
26 S 151- S00 A1	straight	FME male - BNC male			1	
51 S 153- S00 N5	straight	BNC male - N male			1	

Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
51 S 153- K00 N5	straight	BNC male - N female			1	
53 S 151- K00 N5	straight	N male - BNC female			1	
53 K 151- K00 N5	straight	N female - BNC female			1	
05 S 151- S00 S3	straight	RPC- N 50 Ω male - BNC 50 Ω male	≥ 22 dB @ DC to 4 GHz		1	
05 S 151- S20 S3	straight	RPC- N 50 Ω male - BNC 50 Ω male, calibration adaptor	≥ 36 dB @ DC to 2 GHz ≥ 30 dB @ 2 GHz to 4 GHz		1	
05 S 151- K00 S3	straight	RPC- N 50 Ω male - BNC 50 Ω female	≥ 22 dB @ DC to 4 GHz		1	
05 K 151- S00 S3	straight	RPC- N 50 Ω female - BNC 50 Ω male	≥ 22 dB @ DC to 4 GHz		1	

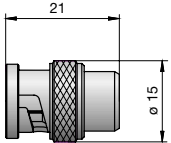
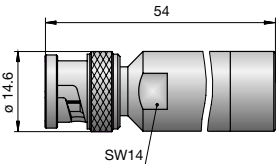
Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
05 K 151-K00 S3	straight	RPC- N 50 Ω female - BNC 50 Ω female	≥ 22 dB @ DC to 4 GHz		1	
05 K 151-K20 S3	straight	RPC- N 50 Ω female - BNC 50 Ω female, calibration adaptor	≥ 36 dB @ DC to 2 GHz ≥ 30 dB @ 2 GHz to 4 GHz		1	
07 P 151-K00 S3	straight	RPC- 7 - BNC 50 Ω female	≥ 22 dB @ DC to 4 GHz		1	
07 P 151-S00 S3	straight	RPC- 7 - BNC 50 Ω male	≥ 22 dB @ DC to 4 GHz		1	

Terminations

Abschlusswiderstände

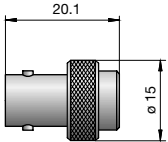
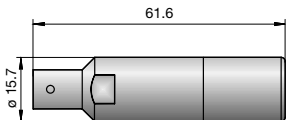
Termination Plug

Abschlusswiderstand Stecker

Ordering Number	Remarks	Return Loss	Packing Unit	
51 S 1RR- 001 N4	1 Watt; Frequency DC - 2 GHz	≥ 20.8 dB @ DC to 1 GHz ≥ 15.6 dB @ 1 GHz to 2 GHz	1	
51 S 170- C10 S3	1 Watt; Frequency DC - 4 GHz for calibration kit	≥ 34 dB @ DC to 2 GHz ≥ 30 dB @ 2 GHz to 4 GHz	1	

Termination Jack

Abschlusswiderstand Kuppler

Ordering Number	Remarks	Return Loss	Packing Unit	
51 K 1RR- 001 N4	1 Watt; Frequency DC - 2 GHz	≥ 20.8 dB @ DC to 1 GHz ≥ 15.6 dB @ 1 GHz to 2 GHz	1	
51 K 170- C10 S3	1 Watt; Frequency DC - 4 GHz for calibration kit	≥ 34 dB @ DC to 2 GHz ≥ 30 dB @ 2 GHz to 4 GHz	1	

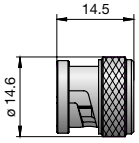
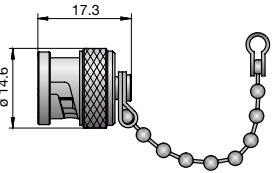
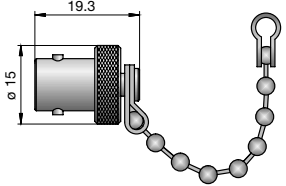
BNC
TNC

Accessories

Zubehör

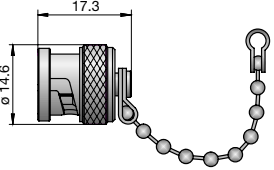
Protection Cap

Schutzkappe

Ordering Number	Remarks	Packing Unit	
51 Z 110-000 N	male	1	
51 Z 112-000 N	male with chain	1	
51 Z 115-000 N	female with chain	1	

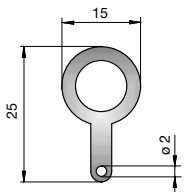
Shorting Cap

Kurzschlusskappe

Ordering Number	Remarks	Packing Unit	
51 Z 111-000 N5	male with chain	1	

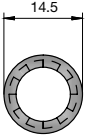
Lötfahne

Lötfahne

Ordering Number	Panel Piercing / PCB Layout	Packing Unit	
51 Z 120-000 B	Ø 9.7	100	

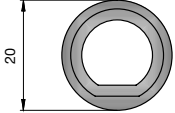
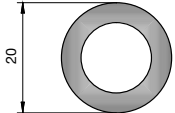
Spring Washer

Zahnscheibe

Ordering Number	Panel Piercing / PCB Layout	Packing Unit	
51 Z 121-000 N	Ø 10	100	

Insulation Washer

Isolierscheibe

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit	
51 Z 122- 000	for panel jacks panel piercing B 2	B 3	100	
51 Z 322- 000	for panel jacks panel piercing B 3	B 103	100	
51 Z 323- 000	for panel jacks panel piercing B 3	Ø 12.8	100	

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
- Intermateable 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.

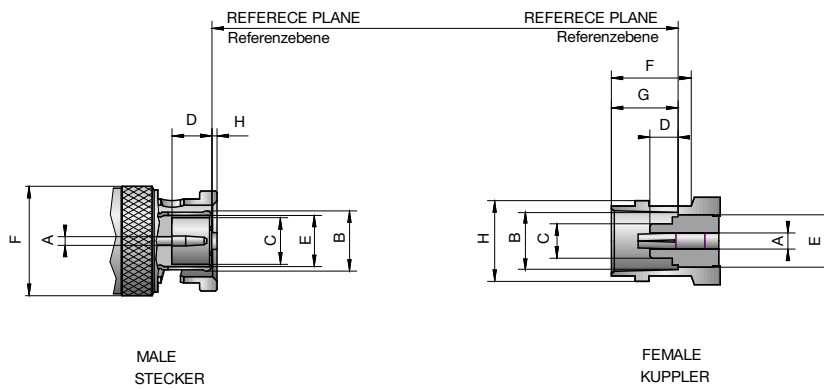
Weitere Steckverbinder auf Anfrage erhältlich.

Anwendungsbeispiele

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

Interface Dimensions

Anschlussmaße



BNC (75 Ohm) Serie 71					
MALE			FEMALE		
STECKER			KUPPLER		
	min.	max.	min.	max.	
A	1.32	1.37	2.06	2.21 1)	A
B	1)		8.10	8.15	B
C	4.83			4.72	C
D	5.28	5.79	2.5 nom.		D
E	7.00 nom.		7.00 nom.		E
F		15.06	10.52		F
G			8.31	8.51	G
H	1.44 nom.		10.97	11.07	H

1) resilient, dim. to meet electrical and mechanical requirements
federnd aufgeweitet bzw. zusammengezogen
(Erfüllung elektr./mech. Forderungen)

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	≤ 1.5 mΩ	Kontaktwiderstand Innenleiter
Outer contact resistance	≤ 1 mΩ	Kontaktwiderstand Außenleiter
Test voltage	1500 V rms	Prüfspannung
Working voltage	400 V rms	Betriebsspannung
Power handling	≤ 80 W @ 2 GHz	Leistungsbelastbarkeit

Mechanical data		Mechanische Daten
Mating cycles	≥ 500	Steckzyklen
Center contact captivation	axial ≥ 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

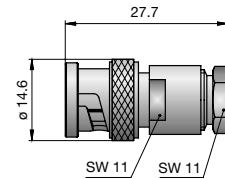
Kabel-Steckverbinder - Flexible Kabel

Straight Plug, crimp

Stecker gerade, klemm

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Packing Unit
71 S 106-002 N5	captivated center contact	02	51 E	1
71 S 106-009 N5	captivated center contact	09	51 E	1

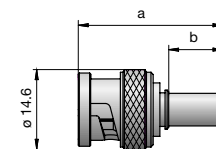
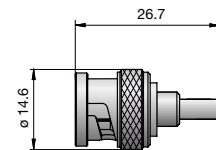


Straight Plug, crimp

Stecker gerade, crimp

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
71 S 107-802 N5		02	51 T	11 W 150-402	1
71 S 107-803 N5		03	51 T	11 W 150-402	1
71 S 102-109 N5	a = 30; b = 12	09	51 P1	11 W 150-209	1, 100
71 S 103-109 N5	a = 30; b = 12; CuBe outer contact	09	51 P1	11 W 150-209	1
71 S 102-110 N5	a = 30; b = 12	09, 10	51 K4	11 W 150-209	1
71 S 102-113 N5	a = 30; b = 12	13	51 P6	11 W 150-213	1
71 S 102-114 N5	a = 30; b = 12	14	51 P6	11 W 150-212	1
71 S 101-118 N5	a = 33.5; b = 15.5	18	51 P4	11 W 150-218	100
71 S 102-126 N5	a = 35.6; b = 15.5	26	51 P4	11 W 150-226	1
71 S 102-128 N5	a = 30; b = 12	28	51 P1	11 W 150-211	1
71 S 102-140 N5	a = 27; b = 9	40	51 P1	11 W 150-204	1, 100
71 S 102-1T6 N5	a = 30; b = 12	T6	51 P6	11 W 150-213	1
71 S 102-1T7 N5	a = 31; b = 13.5	T7	51 P	11 W 150-208	1
71 S 102-1V6 N5	a = 27; b = 9	V6	51 P1	11 W 150-204	1, 100

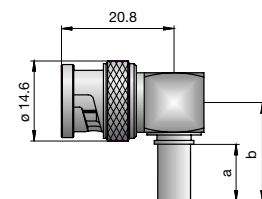


Right Angle Plug, solder- crimp

Winkelstecker, löt- crimp

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
71 S 207-302 N5	a = 7; b = 14.7	02	51 M2	11 W 150-102	100
71 S 201-309 N5	a = 12; b = 19.7	09	51 M	11 W 150-109	100
71 S 201-340 N5	a = 9; b = 16.7	40	51 M1	11 W 150-104	1

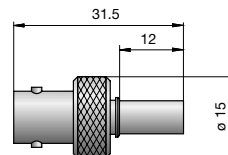
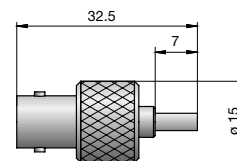


Straight Jack, crimp

Kuppler gerade, crimp

Flexible Cables

Ordering Number	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
71 K 107- 802 N5	02	51 T	11 W 150- 402	50
71 K 101- 109 N5	09	51 P	11 W 150- 209	1
71 K 101- 110 N5	09, 10	51 K	11 W 150- 209	1

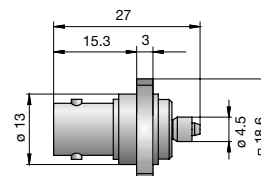


Panel Jack, insulated, 4- hole flange

Gehäusekuppler, isoliert, 4- Loch- Flansch

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit
71 K 440- 302 N5	4 x Ø 2.7	02	51 V	B 101a	1

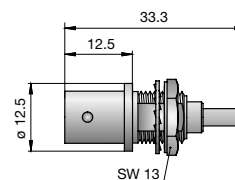


Panel Jack, crimp, round flange

Gehäusekuppler, crimp, Rundflansch

Flexible Cables

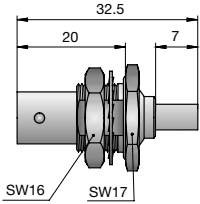
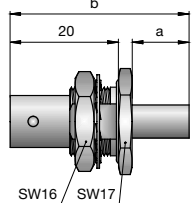
Ordering Number	Version	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Crimp Inserts	Packing Unit
71 K 507- 802 N5	front mount	02	51 T	B 2	11 W 150- 402	1, 100



Panel Jack, crimp,
hexagonal flange

Gehäusekuppler, crimp,
6- kant- Flansch

Flexible Cables

Ordering Number	Version	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Crimp Inserts	Packing Unit	
71 K 607- 802 N5	rear mount		02	51 T	B 3	11 W 150- 402	1	
71 K 611- 109 N5	rear mount	a = 12; b = 34.5	09	51 P	B 3	11 W 150- 209	1	
71 K 611- 110 N5	rear mount	a = 12; b = 34.5	09, 10	51 K	B 3	11 W 100- 209	1	

Panel Connectors - Solder End

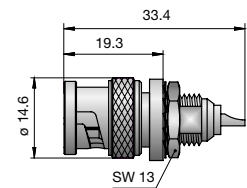
Gehäuse- Steckverbinder - Lötkehlch

Panel Plug, round flange

Gehäusestecker, Rundflansch

Solder End

Ordering Number	Version	Panel Piercing / PCB Layout	Packing Unit
71 S 501- 200 N5	front mount	B 2	1

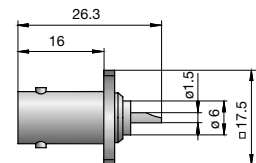


Panel Jack, 4- hole flange

Gehäusekuppler, 4- Loch- Flansch

Solder End

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
71 K 404- 200 N5	4 x Ø 3.1	B 6	1

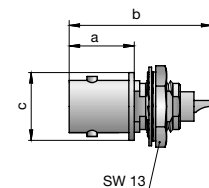


Panel Jack, round flange

Gehäusekuppler, Rundflansch

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
71 K 504- 200 N5	front mount	a = 12; b = 26; c = 12.5	B 2	1
71 K 506- 200 N5	front mount	a = 12; b = 30; c = 12.5	B 2	1
71 K 508- 200 N5	front mount	a = 14; b = 33; c = 15, pressurized	B 1	1

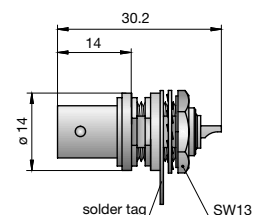


Panel Jack, insulated, round flange

Gehäusekuppler, isoliert, Rundflansch

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
71 K 546- 200 N5	front mount	71 K 506- 200 N4 with insulation washers and solder tag	B 3	1



PCB Connectors - Solder Pin

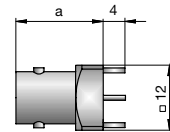
Leiterplatten- Steckverbinder - Löt- Pin

Straight Jack, PCB

Leiterplatten- Kuppler gerade

Solder Pin

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
71 K 101- 400 A5	a = 15, round pins	B 32	50 blister
71 K 103- 400 A5	a = 22, round pins, stand- off version	B 32	50 blister

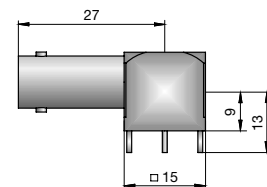
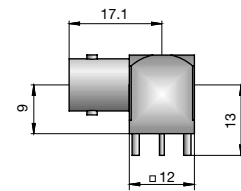


Right Angle Jack, PCB

Leiterplatten- Winkelkuppler

Solder Pin

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
71 K 201- 400 A5	round pins	B 32	50 blister
71 K 203- 400 A5	round pins	B 33	25 blister

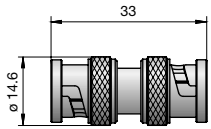
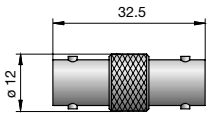
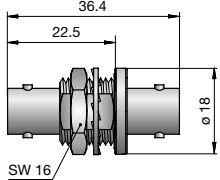
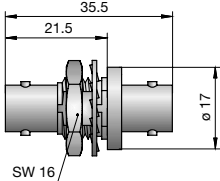


Adaptors (In- Serie)

Adapter (In- Serie)

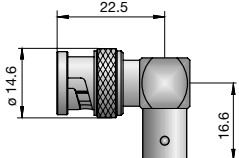
Straight Adaptor

Adapter gerade

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
71 S 101- S00 N5	straight	BNC male - male		1	
71 K 101- K00 N5	straight	BNC female - female		1	
71 K 501- K00 N5	straight	BNC female - female; round flange	B 3	1	
71 K 542- K00 A5	straight	BNC female - female; round flange, insulated	B 3	1	

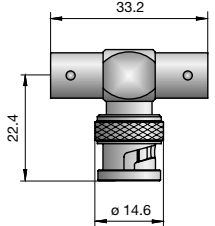
Right Angle Adaptor

Winkel- Adapter

Ordering Number	Version	Remarks	Packing Unit	
71 S 201- K00 N5	right angle	male - female	1	

T- Adaptor

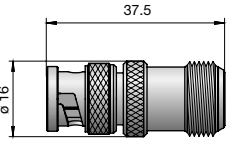
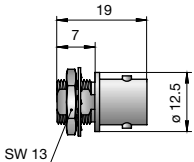
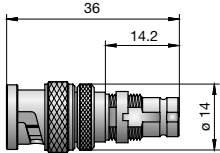
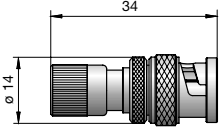
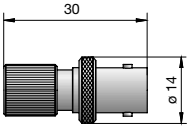
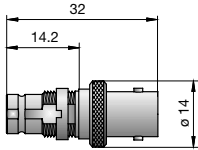
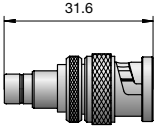
T- Adapter

Ordering Number	Version	Remarks	Packing Unit	
71 S 301- K00 N5	T- adaptor	N female - male - female	1	

Adaptors (Inter Series)

Adapter (serienübergreifend)

BNC - 75 Ω BNC - 75 Ω

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
71 S 173- K00 N5	straight	BNC male 75 Ω - N female 75 Ω		1	
29 K 571- K00 N5	straight	MCX female - BNC female 75 Ω ; round flange	B 1	1	
71 S 188- K00 L5	straight III. Generation	BNC male - 1,6- 5,6 female, 75 Ω	B 27	1	
88 S 171- S00 L5	straight, Type A (screw-on coupling) III. Generation	1.6- 5.6 male - BNC male, 75 Ω		1	
88 S 171- K00 L5	straight, Type A (screw-on coupling) III. Generation	1.6- 5.6 male - BNC female, 75 Ω		1	
88 K 171- K00 L5	straight III. Generation	1.6- 5.6 female - BNC female, 75 Ω	B 27	1	
759 S 171- S00 L5	straight	SMB 75 Ω male - BNC 75 Ω male		1	

BNC
TNC

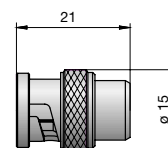
Terminations

Abschlusswiderstände

Termination Plug

Abschlusswiderstand Stecker

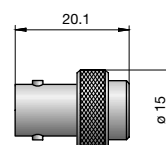
Ordering Number	Remarks	Return Loss	Packing Unit
71 S 1RR-001 N4	1 Watt; Frequency DC - 2 GHz	≥ 20.8 dB @ DC to 1 GHz ≥ 15.6 dB @ 1 GHz to 2 GHz	1



Termination Jack

Abschlusswiderstand Kuppler

Ordering Number	Remarks	Return Loss	Packing Unit
71 K 1RR-001 N4	1 Watt; Frequency DC - 2 GHz	≥ 20.8 dB @ DC to 1 GHz ≥ 15.6 dB @ 1 GHz to 2 GHz	1



TNC (50 Ω) - Coaxial Connectors with Screw Thread Coupling Mechanism for Applications up to 4 GHz

TNC connectors are based on the electrical characteristics and interface dimensions of BNC connectors. Their optimum working frequency is up to 4 GHz (max. 10 GHz). The modified threaded coupling mechanism makes fast and easy connections possible.

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

Product Features

- Interface according to IEC 60169- 17, MIL- PRF- 39012, DIN EN 122200
- Quality tested according to US MIL- STD 202
- Frequency range optimum up to 4 GHz, max. up to 10 GHz
- Threaded coupling mechanism
- Interchangeable with TNC, 75 Ω version.

Product Range

- Cable connectors (straight and right angle) for flexible, semi- flex and semi- rigid cables
- PCB connectors (straight and right angle)
- Panel connectors in various flanges
- Adaptors
- Terminations
- Accessories.

Further connectors are available on request.

Application Examples

A wide range of applications in various segments like data systems, telecommunication, especially mobile radio base stations and aerospace applications.

TNC (50 Ω) - Koaxialsteckverbinder mit Schraub- Verbindung für Anwendungen bis 4 GHz

TNC-Steckverbinder basieren auf den elektrischen Eigenschaften und Interface- Abmessungen von BNC- Steckverbindern. Der Einsatzfrequenzbereich reicht optimal bis zu 4 GHz (max. 10 GHz). Die modifizierte Schraub- Befestigungsform ermöglicht eine schnellere und einfachere Montage im Vergleich zu BNC- Steckverbindern.

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

Produkteigenschaften

- Interface gemäß IEC 60169- 17, MIL- PRF- 39012, DIN EN 122200
- Qualitätsprüfung gemäß US MIL- STD 202
- Frequenzbereich optimal bis 4 GHz, max. bis zu 10 GHz
- Schraub- Kopplungsart
- Steckkompatibel mit TNC, 75- Ω - Variante.

Produktspektrum

- Kabelsteckverbinder (gerade und gewinkelt) für flexible, Semi- Flex- und Semi- Rigid- Kabel
- Leiterplatten- Steckverbinder (gerade und gewinkelt)
- Gehäuse- Steckverbinder in verschiedenen Flanschen
- Adapter
- Abschlusswiderstände
- Zubehör.

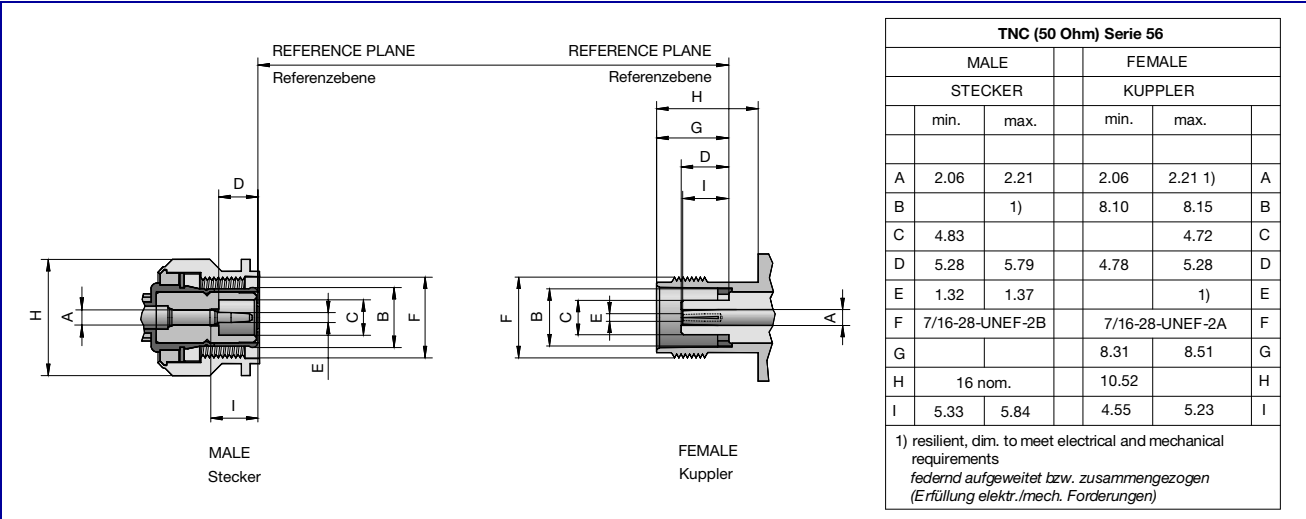
Weitere Steckverbinder auf Anfrage erhältlich.

Anwendungsbeispiele

Weites Anwendungsfeld mit vielfältigen Einsatzmöglichkeiten in der Datentechnik, Telekommunikation, besonders in Mobilfunkbasisstationen und in der Flugzeugindustrie.

Interface Dimensions

Anschlussmaße



Technical Data

Technische Daten

Applicable standards		Anwendbare Standards
Interface according to	IEC 60169- 17, MIL- PRF- 39012, DIN EN 122200	Interface gemäß
Quality tested according to	US MIL- STD 202	Qualitätsprüfung gemäß

Electrical data		Elektrische Daten
Impedance	50 Ω	Wellenwiderstand
Frequency range	max. 0...10 GHz opt. 0...4 GHz	Frequenzbereich
Insertion loss	≤ 0.1 x √ f (GHz) dB	Dämpfung
Insulation resistance	≥ 5 x 10 ³ MΩ	Isolationswiderstand
Center contact resistance	≤ 1.5 mΩ	Übergangswiderstand Innenleiter
Outer contact resistance	≤ 1 mΩ	Übergangswiderstand Außenleiter
Test voltage	1500 V rms	Prüfspannung
Working voltage	500 V rms	Betriebsspannung
Power handling	≤ 80 W (2 GHz) typ.	Leistungsbelastbarkeit

Mechanical data		Mechanische Daten
Mating cycles	≥ 500	Steckzyklen
Coupling test torque	max. 1.7 Nm	Prüf- Anzugsdrehmoment
Recommended coupling torque	0.46 Nm - 0.69 Nm	Empfohlenes Anzugsdrehmoment
Center contact captivation	axial: ≥ 27 N	Innenleiter Haltekraft

Environmental data		Umweltdaten
Temperature range	- 65°C - +165°C	Temperaturbereich
Vibration	US MIL- STD 202, Meth. 204, Cond. B	Vibration
Climatic class	IEC 60068 65/165/21	Klimaklasse
Shock	US MIL- STD 202, Meth. 213, Cond. G	Schock
Corrosion resistance	US MIL- STD 202 Meth. 101, Cond. B	Korrosionsbeständigkeit
Moisture resistance	US MIL- STD 202, Meth. 106	Feuchtigkeitsbeständigkeit
Degree of protection (mated pair)	IEC 60529	Schutzgrad für gekuppeltes Paar

Materials		Materialien
Body, outer contact	CuZn	Gehäuse, Außenleiter
Spring loaded contact parts	CuBe / CuSn	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

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Cable Connectors - Semi- Rigid Cable

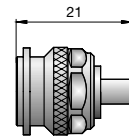
Kabel- Steckverbinder - Semi- Rigid- Kabel

Straight Plug, solder

Stecker gerade, löt

Semi- Rigid

Ordering Number	Cable Group	Assembly Instruction	Packing Unit
56 S 101- 272 B5	72	51 S2	100

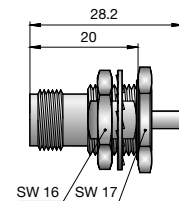


Panel Jack, solder, hexagonal flange

Gehäusekuppler, löt, 6- kant- Flansch

Semi- Rigid

Ordering Number	Version	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit
56 K 611- 271 N5	rear mount	71	51 S1	B 3	1
56 K 611- 272 N5	rear mount	72	51 S2	B 3	100



Cable Connectors - Flexible Cables

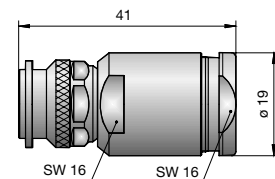
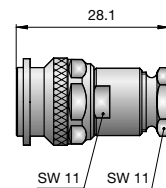
Kabel- Steckverbinder - Flexible Kabel

Straight Plug, clamp

Stecker gerade, klemm

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Packing Unit
56 S 106- 006 N5	captivated center contact	06, 07, 08	51 E	1
56 S 105- 015 N5		15, 17	51 D	1

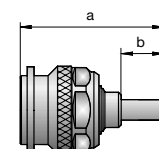


Straight Plug, crimp

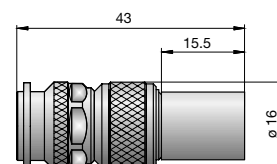
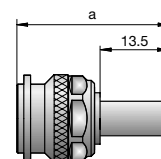
Stecker gerade, crimp

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
56 S 107- 801 N5	a = 24.2; b = 7	01	51 T	11 W 150- 402	100
56 S 107- 802 N5	a = 24.2; b = 7	02	51 T	11 W 150- 402	100
56 S 107- 803 N5	a = 24.2; b = 7	03	51 T	11 W 150- 402	100



Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
56 S 107- 106 N5	a = 28,6	06	51 P10	11 W 150- 208	1, 100
56 S 107- 108 N5	a = 28,6	07, 08	51 P10	11 W 150- 208	1, 100
56 S 107- 1Y8 N5	a = 27.1, crimping sleeve 12 mm	Y8	51 P10	11 W 150- 209	100
56 S 101- 115 N5		15	51 O	11 W 150- 215	1
56 S 101- 117 N5		17	51 O	11 W 150- 215	100

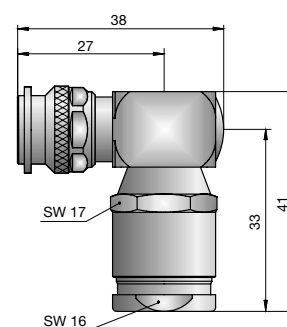
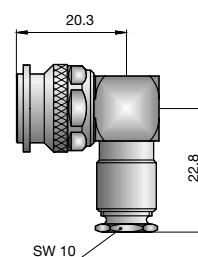


Right Angle Plug, clamp

Winkelstecker, klemm

Flexible Cables

Ordering Number	Cable Group	Assembly Instruction	Packing Unit
56 S 201- 006 N5	06, 07, 08	51 L	1
56 S 201- 015 N5	15, 17	53 F1	1

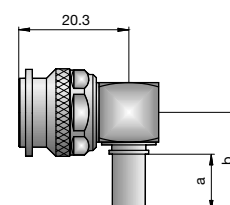
BNC
TNC

Right Angle Plug, solder crimp

Winkelstecker, löt- crimp

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
56 S 207- 302 N5	a = 7; b = 14.7	02	51 M2	11 W 150- 102	100
56 S 207- 303 N5	a = 7; b = 14.7	03	51 M2	11 W 150- 102	100
56 S 209- 306 N5	a = 13.5; b = 21.2	06	51 M	11 W 150- 108	100
56 S 209- 308 N5	a = 13.5; b = 21.2	07, 08	51 M	11 W 150- 108	100

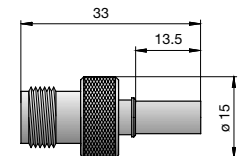
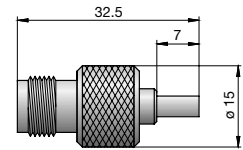


Straight Jack, crimp

Kuppler gerade, crimp

Flexible Cables

Ordering Number	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
56 K 107- 802 N5	02	51 T	11 W 150- 402	1, 100
56 K 107- 803 N5	03	51 T	11 W 150- 402	100
56 K 107- 106 N5	06	51 P1	11 W 150- 208	1
56 K 107- 108 N5	07, 08	51 P1	11 W 150- 208	1

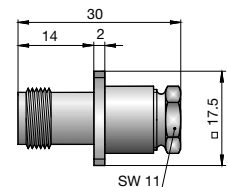


Panel Jack, clamp, 4- hole flange

Gehäusekuppler, klemm, 4- Loch- Flansch

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Packing Unit
56 K 406- 006 N5	4 x 3- 56 UNF	06, 07, 08	51 E	B 6	1

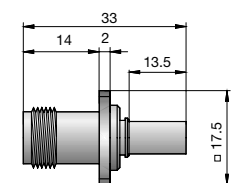
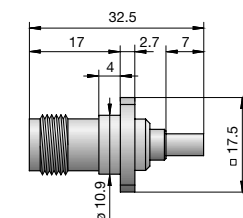


Panel Jack, crimp, 4- hole flange

Gehäusekuppler, crimp, 4- Loch- Flansch

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Crimp Inserts	Packing Unit
56 K 407- 802 N5	4 x M 2.5	02	51 T	B 101	11 W 150- 402	100
56 K 407- 803 N5	4 x M 2.5	03	51 T	B 101	11 W 150- 402	100
56 K 407- 106 N5	4 x 3- 56 UNF	06	51 P1	B 101	11 W 150- 208	1
56 K 407- 108 N5	4 x 3- 56 UNF	07, 08	51 P1	B 101	11 W 150- 208	100

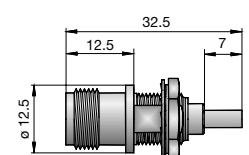


Panel Jack, crimp, round flange

Gehäusekuppler, crimp, Rundflansch

Flexible Cables

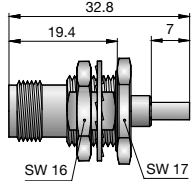
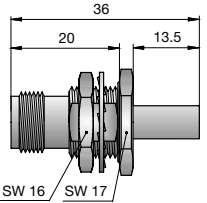
Ordering Number	Version	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Crimp Inserts	Packing Unit
56 K 507- 801 N5	front mount	01	51 T	B 2	11 W 150- 402	100
56 K 507- 802 N5	front mount	02	51 T	B 2	11 W 150- 402	100
56 K 507- 803 N5	front mount	03	51 T	B 2	11 W 150- 402	100



Panel Jack, crimp,
hexagonal flange

Gehäusekuppler, crimp,
6- kant- Flansch

Flexible Cables

Ordering Number	Version	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Crimp Inserts	Packing Unit	
56 K 607- 801 N5	rear mount	01	51 T3	B 3	11 W 150- 402	100	
56 K 607- 802 N5	rear mount	02	51 T	B 3	11 W 150- 402	100	
56 K 607- 803 N5	rear mount	03	51 T	B 3	11 W 150- 402	100	
56 K 607- 106 N5	rear mount	06	51 P10	B 3	11 W 150- 208	1	
56 K 607- 108 N5	rear mount	07, 08	51 P10	B 3	11 W 150- 208	100	

Panel Connectors - Solder End

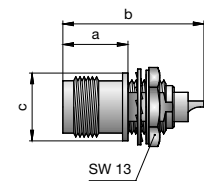
Gehäuse- Steckverbinder - Lötkehlch

Panel Jack, round flange

Gehäusekuppler, Rundflansch

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit
56 K 504- 200 N5	front mount	a = 12; b = 26; c = 12.5	B 2	1
56 K 508- 200 N5	front mount	a = 14; b = 33; c = 14.8; pressurized	B 1	1

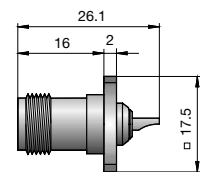


Panel Jack, 4- hole flange

Gehäusekuppler, 4- Loch- Flansch

Solder End

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
56 K 404- 200 N5	4 x Ø 3.1	B 6	1

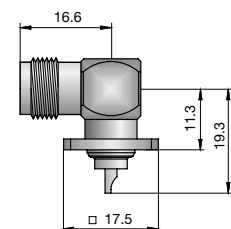


Right Angle Panel Jack, 4- hole flange

Flansch- Winkelkuppler, 4- Loch- Flansch

Solder End

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
56 K 201- 200 N5	4 x Ø 3.1	B 6	1



Panel Connectors - Coaxial End

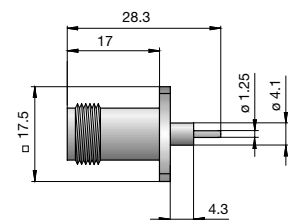
Gehäuse- Steckverbinder - Koaxiales Ende

Panel Jack, 4- hole flange

Gehäusekuppler, 4- Loch- Flansch

Coaxial End

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
56 K 405- 500 N5	4 x Ø 3.2	B 6	1



PCB Connectors - Solder Pin

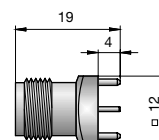
Leiterplatten- Steckverbinder - Löt- Pin

Straight Jack, PCB

Leiterplatten- Kuppler gerade

Solder Pin

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
56 K 101- 400 A5	round pins	B 32	50 blister

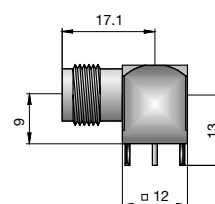


Right Angle Jack, PCB

Leiterplatten- Winkelkuppler

Solder Pin

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit
56 K 201- 400 A5	round pins	B 32	50 blister

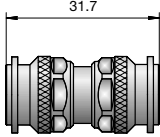
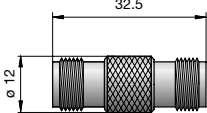
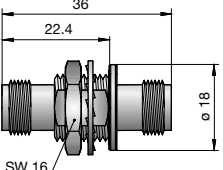


Adaptors (In- Serie)

Adapter (In- Serie)

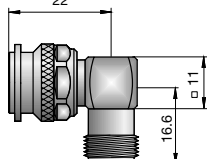
Straight Adaptor

Adapter gerade

Ordering Number	Version	Remarks	Packing Unit	
56 S 101- S00 N5	straight	TNC male - male	1	
56 K 101- K00 N5	straight	TNC female - female	1	
56 K 501- K00 N5	straight	TNC female - female; round flange	1	

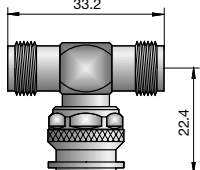
Right Angle Adaptor

Winkel- Adapter

Ordering Number	Version	Remarks	Packing Unit	
56 S 201- K00 N5	right angle	TNC male - female	1	

T- Adaptor

T- Adapter

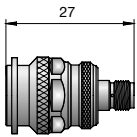
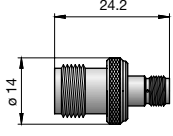
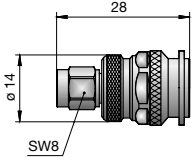
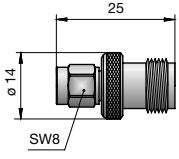
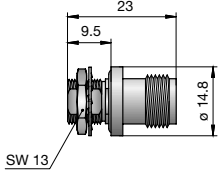
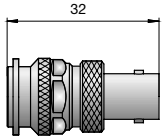
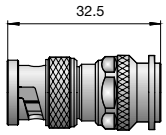
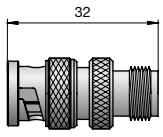
Ordering Number	Version	Remarks	Packing Unit	
56 S 301- K00 N5	T- adaptor	TNC female - male - female	1	

Adaptors (Inter Series)

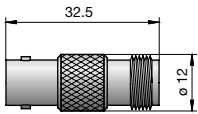
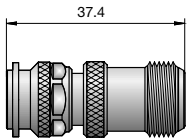
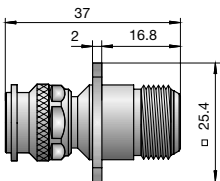
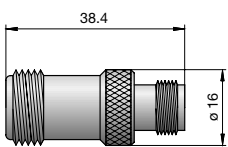
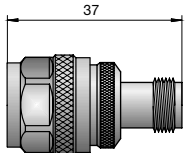
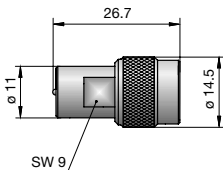
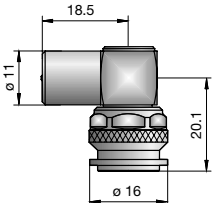
Adapter (serienübergreifend)

TNC - 50 Ω

TNC - 50 Ω

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
56 S 132- K00 N5	straight	TNC male - SMA female		1	
56 K 132- K00 N5	straight	TNC female - SMA female		1	
32 S 156- S00 L5	straight	SMA male - TNC male		1	
32 S 156- K00 L5	straight	SMA male - TNC female		1	
29 K 556- K00 A5	straight	MCX female - TNC female round flange	B 2	1	
56 S 151- K00 N5	straight	TNC male - BNC female		1	
51 S 156- S00 N5	straight	BNC male - TNC male		1	
51 S 156- K00 N5	straight	BNC male - TNC female		1	

BNC
TNC

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
51 K 156- K00 N5	straight	BNC female - TNC female		1	
56 S 153- K00 N5	right angle	TNC male - N female		1	
56 S 453- K00 N5	straight	TNC male - N female; 4- hole flange	B 9	1	
53 K 156- K00 N5	straight	N female - TNC female		1	
53 S 156- K00 N5	straight	N male - TNC female		1	
26 S 156- S00 A1	straight	FME male - TNC male		1	
26 S 256- S00 A1	right angle	FME male - TNC male		1	

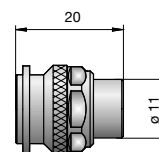
Terminations

Abschlusswiderstände

Termination Plug

Abschlusswiderstand Stecker

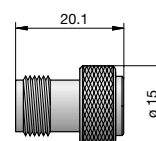
Ordering Number	Remarks	Return Loss	Packing Unit
56 S 1RR-001 N4	1 Watt; Frequency DC - 2 GHz	≥ 20.8 dB @ DC to 1 GHz ≥ 15.6 dB @ 1 GHz to 2 GHz	1



Termination Jack

Abschlusswiderstand Kuppler

Ordering Number	Remarks	Return Loss	Packing Unit
56 K 1RR-001 N4	1 Watt; Frequency DC - 2 GHz	≥ 20.8 dB @ DC to 1 GHz ≥ 15.6 dB @ 1 GHz to 2 GHz	1



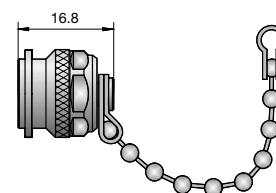
Accessories

Zubehör

Protection Cap

Schutzkappe

Ordering Number	Remarks	Packing Unit
56 Z 112-000 N	male with chain	1

BNC
TNC

TNC (75 Ω) - Coaxial Connectors with Screw Thread Coupling Mechanism for Applications up to 1 GHz

TNC- 75 Ω connectors are based on the electrical characteristics and interface dimensions of BNC connectors. Their optimum working frequency is up to 1 GHz (max. 4 GHz). The modified threaded coupling mechanism makes fast and easy connections possible.

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

Product Features

- Interface compatible with IEC 60169- 17, MIL- PRF- 39012, DIN EN 122200
- Quality tested according to US MIL- STD 202
- Frequency range optimum up to 1 GHz, max. up to 4 GHz
- Threaded coupling mechanism
- Intermateable with TNC, 50 Ω version.

Product Range

- Cable connectors (straight and right angle) for flexible cables
- Panel connectors
- Adaptors.

Further connectors are available on request.

Application Examples

Data systems, telecommunication.

TNC (75 Ω) - Koaxialsteckverbinder mit Schraub- Verbindung für Anwendungen bis 1 GHz

TNC- 75- Ω - Steckverbinder basieren auf den elektrischen Eigenschaften und Interface- Abmessungen von BNC- Steckverbindern. Der Einsatzfrequenzbereich reicht optimal bis zu 1 GHz (max. 4 GHz). Die modifizierte Schraub- Befestigungsform ermöglicht eine schnellere und einfachere Montage im Vergleich zu BNC- Steckverbindern.

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

Produkteigenschaften

- Interface kompatibel mit IEC 60169- 17, MIL- PRF- 39012, DIN EN 122200
- Qualitätsprüfung gemäß US MIL- STD 202
- Frequenzbereich optimal bis 1 GHz, max. bis zu 4 GHz
- Schraub- Kopplungsart
- Steckkompatibel mit TNC, 50- Ω - Variante.

Produktspektrum

- Kabelsteckverbinder (gerade und gewinkelt) für flexible Kabel
- Gehäuse- Steckverbinder
- Adapter.

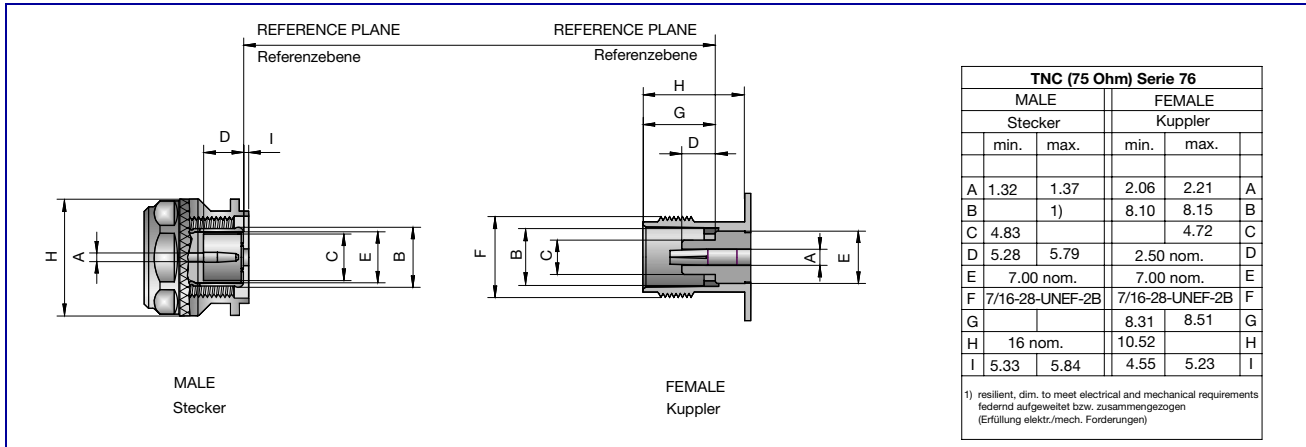
Weitere Steckverbinder auf Anfrage erhältlich.

Anwendungsbeispiele

Datentechnik und Telekommunikation.

Interface Dimensions

Anschlussmaße



Technical Data

Technische Daten

Applicable standards		Anwendbare Standards
Interface compatible with	IEC 60169- 17, MIL- PRF- 39012, DIN EN 122200	Interface kompatibel mit
Quality tested according to	US MIL- STD 202	Qualitätsprüfung gemäß

Electrical data		Elektrische Daten
Impedance	75 Ω	Wellenwiderstand
Frequency range max./opt.	0...4 GHz / 0...1.5 GHz	Frequenzbereich max./opt.
Insertion loss	≤ 0.1 dB	Dämpfung
Insulation resistance	≥ 5 x 10 ³ MΩ	Isolationswiderstand
Center contact resistance	≤ 1.5 mΩ	Kontaktwiderstand Innenleiter
Outer contact resistance	≤ 1 mΩ	Kontaktwiderstand Außenleiter
Test voltage	1500 V rms	Prüfspannung
Working voltage	500 V rms	Betriebsspannung
Power handling	≤ 80 W @ 2 GHz	Leistungsbelastbarkeit

Mechanical data		Mechanische Daten
Mating cycles	≥ 500	Steckzyklen
Coupling test torque	max. 1.7 Nm	Prüf- Anzugsdrehmoment
Recommended coupling torque	0.46 Nm - 0.69 Nm	Empfohlenes Anzugsdrehmoment
Center contact captivation	≥ 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

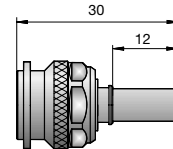
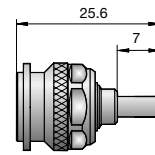
Kabel-Steckverbinder - Flexible Kabel

Straight Plug, crimp

Stecker gerade, crimp

Flexible Cables

Ordering Number	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
76 S 107- 802 N5	02	51 T	11 W 150- 402	1
76 S 102- 109 N5	09	51 P1	11 W 150- 209	1

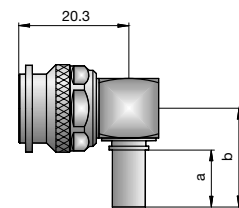


Right Angle Plug, solder crimp

Winkelstecker, löt- crimp

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
76 S 209- 302 N5	a = 7; b = 14.7	02	51 M2	11 W 150- 102	100
76 S 201- 309 N5	a = 12; b = 19.7	09	51 M	11 W 150- 209	100

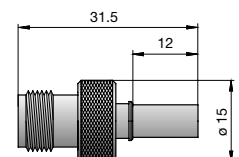


Straight Jack, crimp

Kuppler gerade, crimp

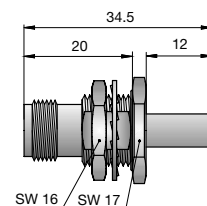
Flexible Cables

Ordering Number	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit
76 K 111- 109 N5	09	51 P	11 W 150- 209	1

Panel Jack, crimp,
hexagonal flangeGehäusekuppler, crimp,
6- kant- Flansch

Flexible Cables

Ordering Number	Version	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	Crimp Inserts	Packing Unit
76 K 611- 109 N5	rear mount	09	51 P	B 3	11 W 150- 209	1

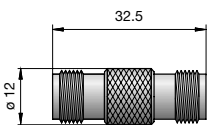
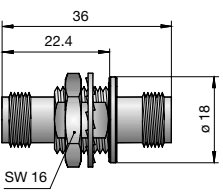


Adaptors (In- Serie)

Adapter (In- Serie)

TNC 75 Ω

TNC 75 Ω

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
76 K 101- K00 N5	straight	TNC female - female		1	
76 K 501- K00 N5	straight	TNC female - female; round flange	B 3	1	
76 S 201- K00 N5	right angle	TNC male - female		1	