



BNC coaxial connectors, with a two stud bayonet coupling mechanism for easy, fast and reliable connections, are mainly applied in data systems and telecom applications.

BNC-Koaxial-Steckverbinder verfügen über einen 2-nockigen Bajonettverschluss für einfache, schnelle und zuverlässige Steckverbindungen. Anwendungsbereiche sind insbesondere Datentechnik und Telekommunikation.

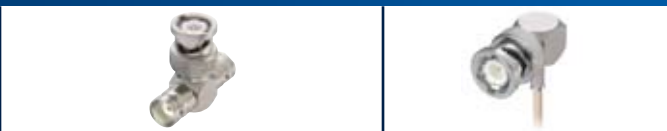
TNC coaxial connectors are based on BNC connector characteristics and interface dimensions. The screw-on coupling mechanism enables quicker and easier interconnections compared to BNC connectors.

TNC-Koaxial-Steckverbinder basieren in Eigenschaften und Abmessungen auf der Serie BNC, sind jedoch Schraubsteckverbinder und damit schneller und einfacher zu montieren als BNC-Steckverbinder.

The optimum working frequency of BNC and TNC 50 Ω connectors is up to 4 GHz (max. 10 GHz), of 75 Ω connectors is up to 1 GHz (max. 4 GHz). 50 Ω and 75 Ω connector types are intermateable without any restrictions within BNC and TNC series.

BNC- und TNC-50- Ω -Steckverbinder werden optimal bis 4 GHz (maximal bis 10 GHz) eingesetzt, die 75- Ω -Steckverbinder bis 1 GHz (maximal bis 4 GHz). Innerhalb der Serien BNC und TNC sind die 50- Ω - und 75- Ω -Typen ohne Einschränkungen steckkompatibel.

BNC (50 Ω , 75 Ω) TNC (50 Ω , 75 Ω)



Contents

BNC 50 Ω

BNC 75 Ω

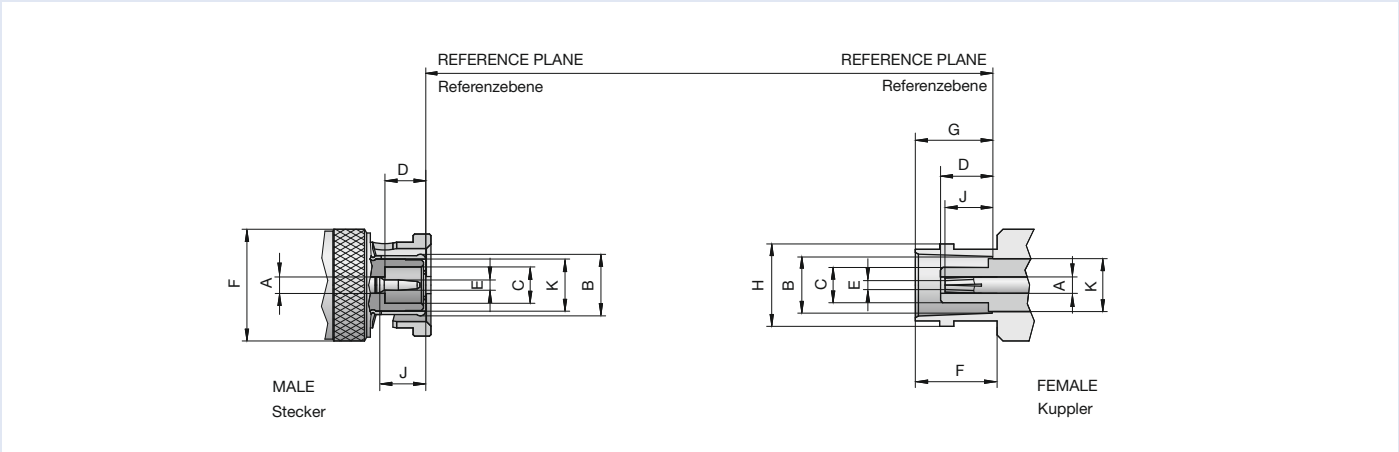
TNC 50 Ω

TNC 75 Ω

BNC
TNC

Interface Dimensions BNC, 50 Ω

Code 51



BNC, 50 Ω

	Male Stecker		Female Kuppler	
dimension [mm]	min.	max.	min.	max.
A	2.06	2.21	2.06	2.21 1)
B		1)	8.10	8.15
C	4.83			4.72
D	5.28	5.79	4.78	5.28
E	1.32	1.37		1)
F		15.06	10.52	
G			8.31	8.51
H			10.97	11.07
J	5.33	5.84	4.72	5.23
K	7.00 nom.		7.00 nom.	

1) resilient, dimension to meet electrical and mechanical requirements

Features

Interface according to IEC 61169-8, MIL-PRF-39012, CECC 22120
Frequency range DC to 10 GHz (max.), DC to 4 GHz (opt.)
Return loss (cable connector straight) ≥ 20 dB (typ.)
Impedance 50 Ω
Bayonet coupling

Product Range

- Cable connectors
- PCB connectors
- Panel connectors
- Gas-tight versions
- Adaptors
- Terminations
- Accessories

Further connectors are available on request

Technical Data BNC, 50 Ω

Code 51

Applicable standards Anwendbare Normen	
Interface according to Interface gemäß	IEC 61169-8, MIL-PRF-39012, CECC 22120
Quality tested according to Qualitätsprüfung gemäß	MIL-STD-202
Electrical data Elektrische Daten	
Impedance Wellenwiderstand	50 Ω
Frequency range Frequenzbereich	DC to 10 GHz (max.) DC to 4 GHz (opt.)
Return loss (cable connector straight) Rückflusdämpfung (Kabelsteckverbinder gerade)	≥ 20 dB (typ.)
Insertion loss Dämpfung	≤ 0.1 x √f(GHz) dB
Insulation resistance Isolationswiderstand	≥ 5 GΩ
Center contact resistance Übergangswiderstand Innenleiter	≤ 1.5 mΩ
Outer contact resistance Übergangswiderstand Außenleiter	≤ 1 mΩ
Test voltage Prüfspannung	1500 V rms
Working voltage Betriebsspannung	400 V rms
Power handling Leistungsbelastbarkeit	80 W @ 2 GHz
Mechanical data Mechanische Daten	
Mating cycles Steckzyklen	≥ 500
Center contact captivation Innenleiter Haltekraft	axial: ≥ 27 N
Environmental data Umweltdaten	
Temperature range Temperaturbereich	-65 °C to +165 °C
Thermal shock Temperaturzyklen	MIL-STD-202, Method 107, Condition B
Climatic category Klimakategorie	IEC 60068 65/165/21
Corrosion resistance Korrosionsbeständigkeit	MIL-STD-202, Method 101, Condition B
Vibration Vibration	MIL-STD-202, Method 204, Condition B
Shock Schock	MIL-STD-202, Method 213, Condition G
Max. soldering temperature (PCB connectors) Max. Löttemperatur (Leiterplattensteckverbinder)	IEC 61760-1, +260 °C for 10 sec.
Materials Materialien	
Spring loaded contact parts Federnde Kontaktteile	CuBe / CuSn, Au plating
Center contact Innenleiter	CuZn, Au plating
Outer contact Außenleiter	CuZn, Ni / Ag / white bronze plating
Crimping ferrule Crimphülse	Copper alloy, white bronze plating
Dielectric Dielektrikum	PTFE
Gasket Dichtung	Rubber

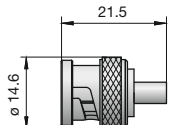
Rosenberger-connectors fulfill in principle the indicated data of the Technical Data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and execution. Specific data sheets for particular products can be provided on request from your Rosenberger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

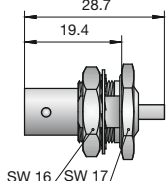
Straight Plug, solder

Semi-Rigid Cables

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

Panel Jack, solder, hexagonal flange

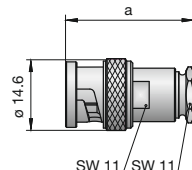
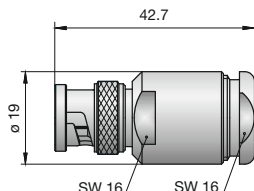
Semi-Rigid Cables

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

Straight Plug, clamp

Flexible Cables

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

Straight Plug, 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 = 29.0 mm	06	51 P10	11 W 150-208	1, 100	
51 S 103-106 N5	a = 31.0 mm; CuBe outer contact	06	51 P1	11 W 150-206	1	
51 S 107-108 N5	a = 29.0 mm	07, 08	51 P10	11 W 150-208	1, 100	
51 S 101-1M4 N5	a = 27.7 mm	M4	51 P1	11 W 150-204	100	
51 S 101-115 N5	a = 43.0 mm	15	51 O	11 W 150-215	1	
51 S 101-117 N5	a = 43.0 mm	17	51 O	11 W 150-215	1	

Right Angle Plug, clamp

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	

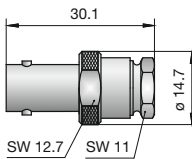
Right Angle Plug, solder crimp

Flexible Cables

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

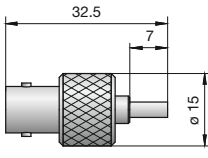
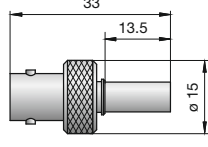
Straight Jack, clamp

Flexible Cables

Ordering Number	Cable Group	Assembly Instruction	Packing Unit	
51 K 106-002 N5	02	51 E	1	
51 K 106-006 N5	06	51 E	1	

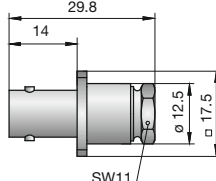
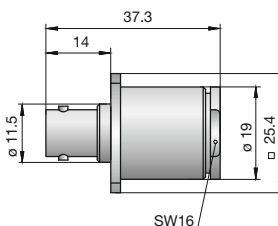
Straight Jack, crimp

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	

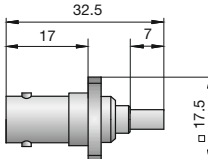
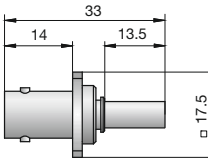
Panel Jack, clamp, 4-hole flange

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-2B	06, 07, 08	51 E	B 6	1	
51 K 405-015 N5	4 x 6-32 UNC-2B	15, 17	51 D	B 9	1	

Panel Jack, crimp, 4-hole flange

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-2B	06	51 P1	B 101	11 W 150-206	1	
51 K 407-108 N5	4 x 3-56 UNF-2B	07, 08	51 P1	B 101	11 W 150-208	1	

Panel Jack, solder-crimp
insulated, 4-hole flange

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 mm	02	51 V	B 101a	1	

Panel Jack, crimp, round flange

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

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 N5	rear mount	captivated center contact	06, 07, 08	51 E	B 3	1	

Panel Jack, crimp, hexagonal flange

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	1	

Panel Connectors - Coaxial End

Panel Jack, 4-hole flange

Coaxial End

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

Panel Connectors - Solder End

Panel Plug, round flange

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

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
51 K 501-200 N5	front mount	a = 13.8 mm; b = 26.5 mm; c = 14.4 mm	B 1	100	
51 K 502-200 N5	front mount	a = 12.6 mm; b = 26.0 mm; c = 12.7 mm	B 5	100	
51 K 503-200 N5	front mount	a = 12.5 mm; b = 26.3 mm; c = 14.0 mm	B 18	100	
51 K 504-200 N5	front mount	a = 12.0 mm; b = 26.2 mm; c = 12.5 mm	B 2	100	
51 K 506-200 N5	front mount	a = 12.0 mm; b = 30.4 mm; c = 12.5 mm	B 2	1, 100	
51 K 507-200 N5	front mount	a = 13.8 mm; b = 28.5 mm; c = 14.8 mm; pressurized	B 2	1	
51 K 508-200 N5	front mount	a = 14.0 mm; b = 33.0 mm; c = 14.8 mm; pressurized	B 1	1	
51 K 516-200 B1	front mount	a = 12.0 mm; b = 26.5 mm; c = 12.5 mm; with solder tags	B 2	100	

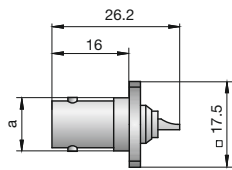
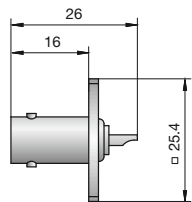
Panel Jack, insulated, round flange

Solder End

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

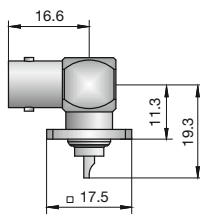
Panel Jack, 4-hole flange

Solder End

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit	
51 K 403-200 N5	4 x 3-56 UNF-2B, rim $\varnothing$ a = 10.9 mm	B 6	50	
51 K 404-200 N5	4 x $\varnothing$ 3.1 mm, no rim	B 6	50	
51 K 409-200 N5	4 x $\varnothing$ 3.4 mm	B 9	1	

Right Angle Panel Jack, 4-hole flange

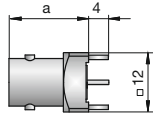
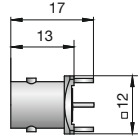
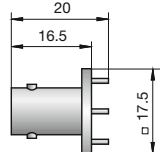
Solder End

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

PCB Connectors - Solder Pin

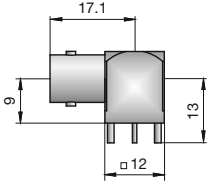
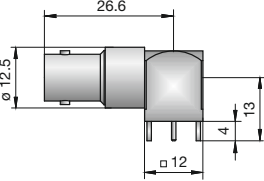
Straight Jack, PCB

Solder Pin

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit	
51 K 101-400 A5	a = 15.0 mm, 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	

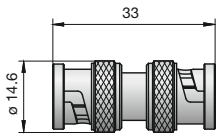
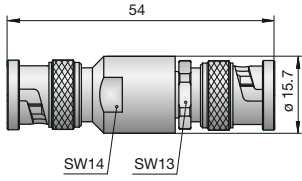
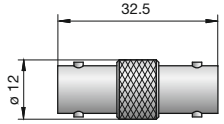
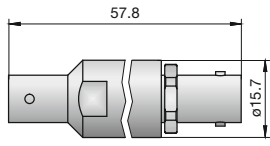
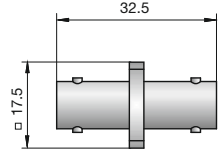
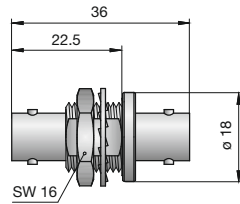
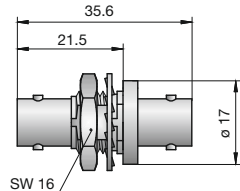
Right Angle Jack, PCB

Solder Pin

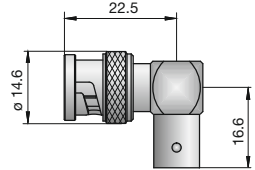
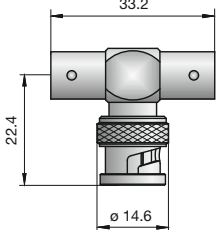
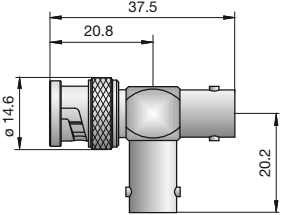
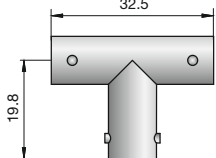
Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit	
51 K 201-400 A5	round pins	B 32	50 blister	
51 K 204-400 A5	Ø 12.5 mm insulation sleeve, round pins	B 32	25 blister	

Adaptors

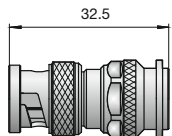
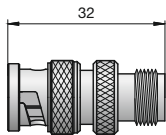
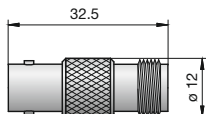
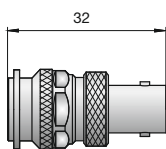
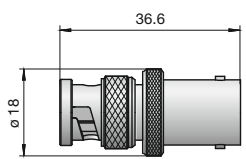
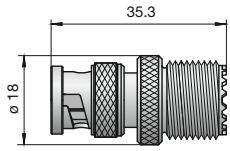
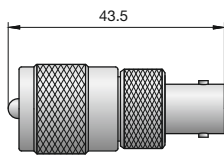
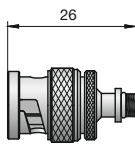
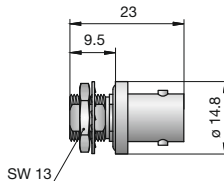
Adaptors (In Series)

Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	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	
51 K 401-K00 N5	straight panel	BNC female - female, 4-hole flange 4 x M2.5		B 6	1	
51 K 501-K00 N5	straight panel	BNC female - female, round flange, pressurized		B 3	1	
51 K 542-K00 A5	straight panel	BNC female - female, round flange, insulated		B 3	1	

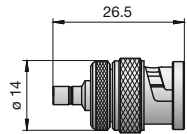
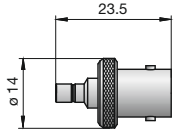
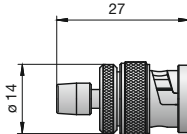
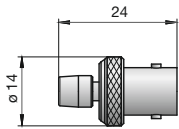
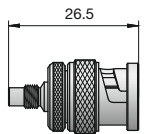
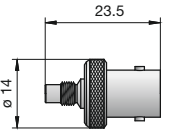
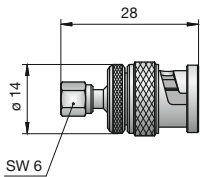
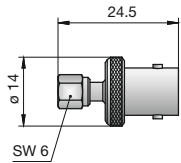
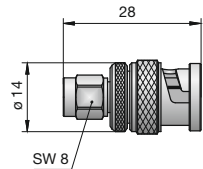
BNC
TNC

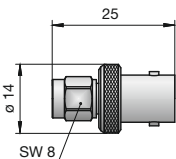
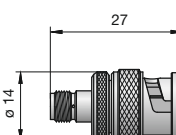
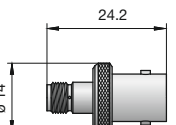
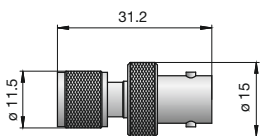
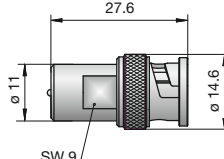
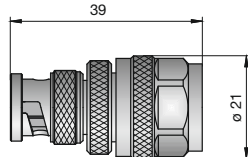
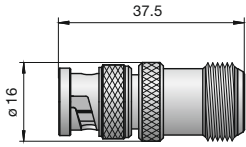
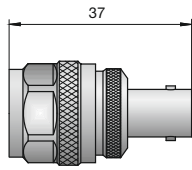
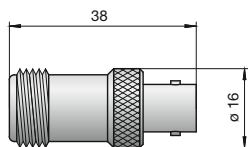
Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
51 S 201-K00 N5	right angle	BNC male - female			1	
51 S 301-K00 N5	T-adaptor	BNC female - male - female			1	
51 S 303-K00 N5	T-adaptor	BNC male - female - female			1	
51 K 301-K00 N5	T-adaptor	BNC female - female - female			1	

Adaptors (Inter Series)

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	
29 K 551-K00 A5	straight panel	MCX female - BNC 50 Ω female round flange		B 2	1	

BNC
TNC

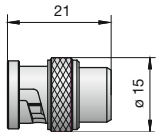
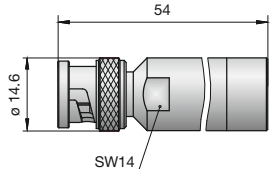
Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
59 S 151-S00 L5	straight	SMB male - BNC male			1	
59 S 151-K00 L5	straight	SMB male - BNC female			1	
59 K 151-S00 L5	straight	SMB female - BNC male			1	
59 K 151-K00 L5	straight	SMB female - BNC female			1	
39 S 151-S00 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	
39 K 151-K00 L5	straight	SMC female - BNC female			1	
32 S 151-S00 L5	straight	SMA male - BNC male			1	

Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
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	
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	

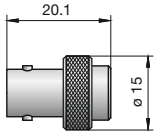
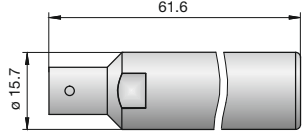
Ordering Number	Version	Remarks	Return Loss	Panel Piercing / PCB Layout	Packing Unit	
05 S 151-S00 S3	straight	RPC-N 50 Ω male - BNC 50 Ω male	≥ 22 dB @ DC to 4 GHz		1	
05 S 151-S20 S3	straight	RPC-N 50 Ω male - BNC 50 Ω male, calibration adaptor	≥ 36 dB @ DC to 2 GHz ≥ 30 dB @ 2 GHz to 4 GHz		1	
05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

Termination Plug

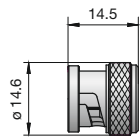
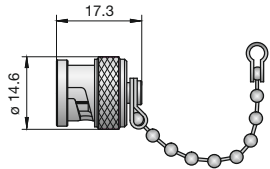
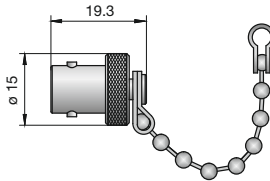
Ordering Number	Remarks	Return Loss	Packing Unit	
51 S 1RR-001 N4	1 Watt Frequency: DC to 2 GHz	≥ 20.8 dB @ DC to 1 GHz ≥ 15.6 dB @ 1 GHz to 2 GHz	1	
51 S 170-C10 S3	1 Watt Frequency: DC to 4 GHz for calibration kit	≥ 34 dB @ DC to 2 GHz ≥ 30 dB @ 2 GHz to 4 GHz	1	

Termination Jack

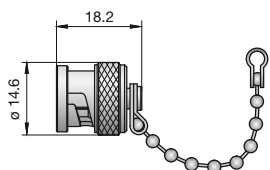
Ordering Number	Remarks	Return Loss	Packing Unit	
51 K 1RR-001 N4	1 Watt Frequency: DC to 2 GHz	≥ 20.8 dB @ DC to 1 GHz ≥ 15.6 dB @ 1 GHz to 2 GHz	1	
51 K 170-C10 S3	1 Watt Frequency: DC to 4 GHz for calibration kit	≥ 34 dB @ DC to 2 GHz ≥ 30 dB @ 2 GHz to 4 GHz	1	

Accessories

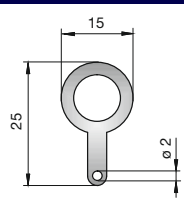
Protection Cap

Ordering Number	Remarks	Packing Unit	
51 Z 110-000 N	male	1	
51 Z 112-000 N	male with chain	100	
51 Z 115-000 N	female with chain	1	

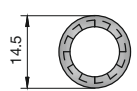
Shorting Cap

Ordering Number	Remarks	Packing Unit	
51 Z 111-000 N5	male with chain	100	

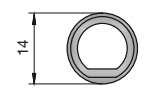
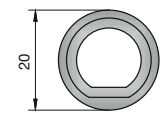
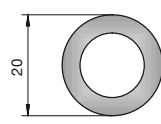
Lötfahne

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

Spring Washer

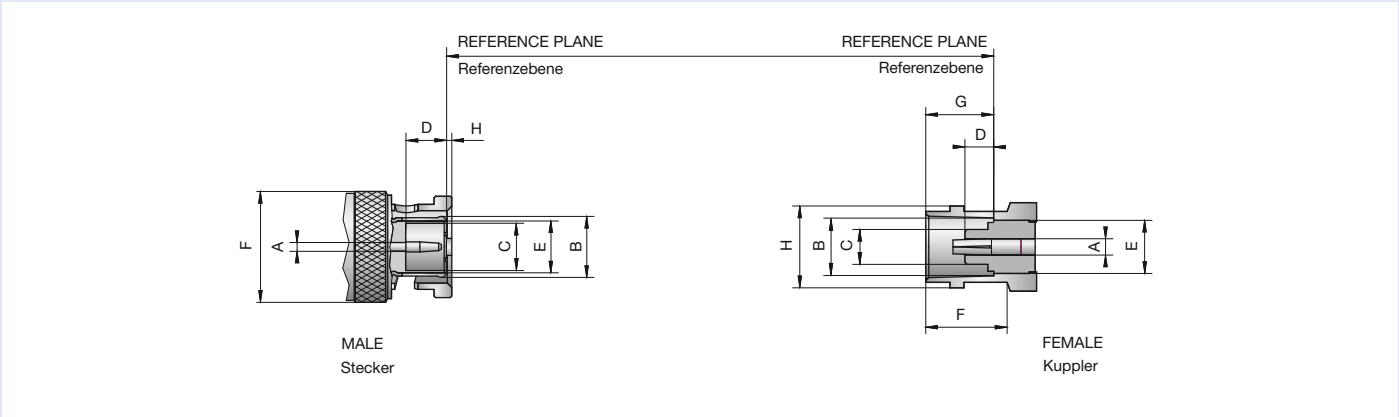
Ordering Number	Panel Piercing / PCB Layout	Packing Unit	
51 Z 121-000 N	Ø 10.0 mm	100	

Insulation Washer

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 mm	100	

Interface Dimensions BNC, 75 Ω

Code 71



BNC, 75Ω

	Male Stecker		Female Kuppler	
dimension [mm]	min.	max.	min.	max.
A	1.32	1.37	2.06	2.21 1)
B		1)	8.10	8.15
C	4.83			4.72
D	5.28	5.79	2.50 nom.	
E	7.00 nom.		7.00 nom.	
F		15.06	10.52	
G			8.31	8.51
H	1.44 nom.		10.97	11.07

1) resilient, dimension to meet electrical and mechanical requirements

Features

Interface according to IEC 61169-8, MIL-PRF-39012, CECC 22120
Frequency range DC to 4 GHz (max.), DC to 1 GHz (opt.)
Return loss (cable connector straight) ≥ 20 dB (typ.)
Impedance 75 Ω
Bayonet coupling

Product Range

- Cable connectors
- PCB connectors
- Panel connectors
- Gas-tight versions
- Adaptors
- Terminations

Further connectors are available on request

Technical Data BNC, 75 Ω

Code 71

Applicable standards Anwendbare Normen	
Interface according to Interface gemäß	IEC 61169-8, MIL-PRF-39012, CECC 22120
Quality tested according to Qualitätsprüfung gemäß	MIL-STD-202
Electrical data Elektrische Daten	
Impedance Wellenwiderstand	75 Ω
Frequency range Frequenzbereich	DC to 4 GHz (max.) DC to 1 GHz (opt.)
Return loss (cable connector straight) Rückflusdämpfung (Kabelsteckverbinder gerade)	≥ 20 dB (typ.)
Insertion loss Dämpfung	≤ 0.1 x √f(GHz) dB
Insulation resistance Isolationswiderstand	≥ 5 GΩ
Center contact resistance Kontaktwiderstand Innenleiter	≤ 1.5 mΩ
Outer contact resistance Kontaktwiderstand Außenleiter	≤ 1 mΩ
Test voltage Prüfspannung	1500 V rms
Working voltage Betriebsspannung	400 V rms
Power handling Leistungsbelastbarkeit	80 W @ 2 GHz
Mechanical data Mechanische Daten	
Mating cycles Steckzyklen	≥ 500
Center contact captivation Innenleiter Haltekraft	axial: ≥ 27 N
Environmental data Umweltdaten	
Temperature range Temperaturbereich	-65 °C to +165 °C
Thermal shock Temperaturzyklen	MIL-STD-202, Method 107, Condition B
Climatic category Klimakategorie	IEC 60068 65/165/21
Corrosion resistance Korrosionsbeständigkeit	MIL-STD-202, Method 101, Condition B
Vibration Vibration	MIL-STD-202, Method 204, Condition B
Shock Schock	MIL-STD-202, Method 213, Condition G
Max. soldering temperature (PCB connectors) Max. Löttemperatur (Leiterplattensteckverbinder)	IEC 61760-1, +260 °C for 10 sec.
Materials Materialien	
Spring loaded contact parts Federnde Kontaktteile	CuBe / CuSn, Au plating
Center contact Innenleiter	CuZn, Au plating
Outer contact Außenleiter	CuZn, Ni / white bronze plating
Crimping ferrule Crimphülse	Copper alloy, white bronze plating
Dielectric Dielektrikum	PTFE
Gasket Dichtung	Rubber

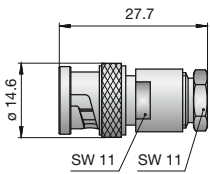
Rosenberger-connectors fulfill in principle the indicated data of the Technical Data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and execution. Specific data sheets for particular products can be provided on request from your Rosenberger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

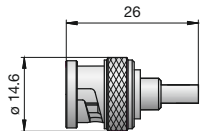
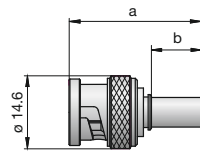
Straight Plug, crimp

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	

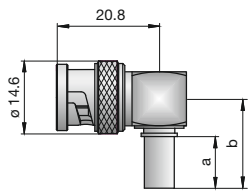
Straight Plug, crimp

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 = 29.6 mm; b = 12.0 mm	09	51 P1	11 W 150-209	1, 100	
71 S 103-109 N5	a = 29.6 mm; b = 12.0 mm CuBe outer contact	09	51 P1	11 W 150-209	1	
71 S 102-110 N5	a = 29.6 mm; b = 12.0 mm	09, 10	51 K4	11 W 150-209	1	
71 S 102-113 N5	a = 29.7 mm; b = 12.0 mm	13	51 P6	11 W 150-213	1	
71 S 102-114 N5	a = 29.7 mm; b = 12.0 mm	14	51 P6	11 W 150-212	1	
71 S 101-118 N5	a = 33.6 mm; b = 15.5 mm	18	51 P4	11 W 150-218	100	
71 S 102-126 N5	a = 35.6 mm; b = 15.5 mm	26	51 P4	11 W 150-226	1	
71 S 102-128 N5	a = 29.6 mm; b = 12.0 mm	28	51 P1	11 W 150-211	1	
71 S 102-140 N5	a = 26.6 mm; b = 9.0 mm	40	51 P1	11 W 150-204	1, 100	
71 S 102-1T6 N5	a = 29.7 mm; b = 12.0 mm	T6	51 P6	11 W 150-213	1	
71 S 102-1T7 N5	a = 31.0 mm; b = 13.5 mm	T7	51 P	11 W 150-208	1	
71 S 102-1V6 N5	a = 26.6 mm; b = 9.0 mm	V6	51 P1	11 W 150-204	1, 100	

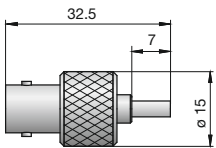
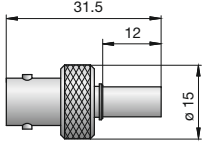
Right Angle Plug, solder-crimp

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit	
71 S 207-302 N5	a = 7.0 mm; b = 14.7 mm	02	51 M2	11 W 150-102	100	
71 S 201-309 N5	a = 12.0 mm; b = 19.7 mm	09	51 M	11 W 150-109	100	
71 S 201-340 N5	a = 9.0 mm; b = 16.7 mm	40	51 M1	11 W 150-104	1	

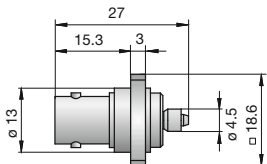
Straight Jack, crimp

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	

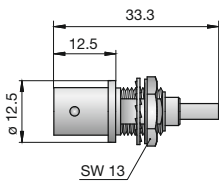
Panel Jack, insulated, 4-hole flange

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 mm	02	51 V	B 101a	1	

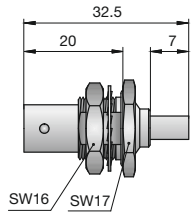
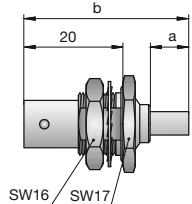
Panel Jack, crimp, round flange

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

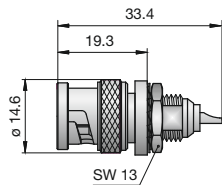
Flexible Cables

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 = 12.0 mm; b = 34.5 mm	09	51 P	B 3	11 W 150-209	1	
71 K 611-110 N5	rear mount	a = 12.0 mm; b = 34.5 mm	09, 10	51 K	B 3	11 W 150-209	1	

Panel Connectors - Solder End

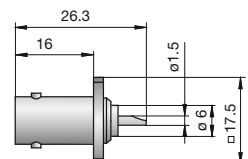
Panel Plug, round flange

Solder End

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

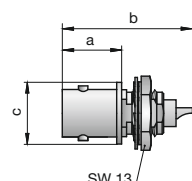
Panel Jack, 4-hole flange

Solder End

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

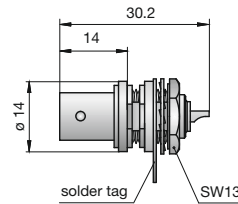
Panel Jack, round flange

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
71 K 504-200 N5	front mount	a = 12.0 mm; b = 26.3 mm; c = 12.5 mm	B 2	1	
71 K 506-200 N5	front mount	a = 12.0 mm; b = 30.2 mm; c = 12.5 mm	B 2	1	
71 K 508-200 N5	front mount	a = 14.0 mm; b = 32.8 mm; c = 14.8 mm; pressurized	B 1	1	

Panel Jack, insulated, round flange

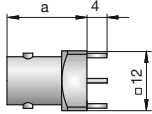
Solder End

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

PCB Connectors - Solder Pin

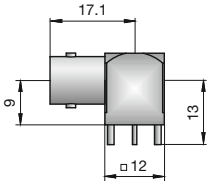
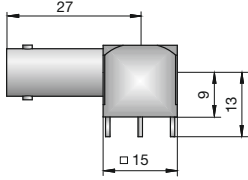
Straight Jack, PCB

Solder Pin

Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit	
71 K 101-400 A5	a = 15.0 mm, round pins	B 32	50 blister	
71 K 103-400 A5	a = 22.0 mm, round pins, stand-off version	B 32	50 blister	

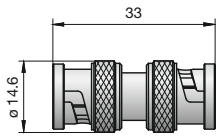
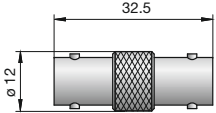
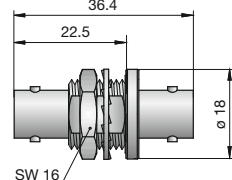
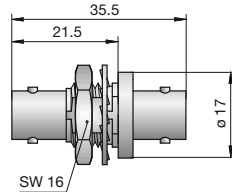
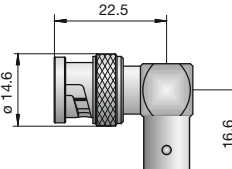
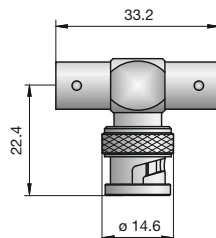
Right Angle Jack, PCB

Solder Pin

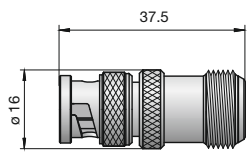
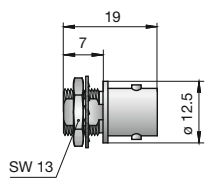
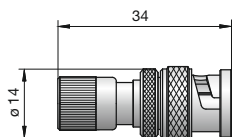
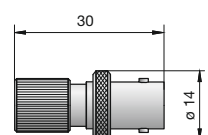
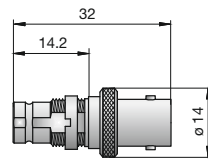
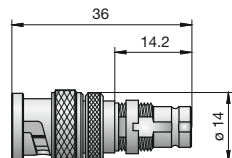
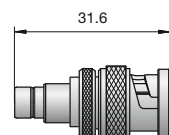
Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit	
71 K 201-400 A5	round pins	B 32	50 blister	
71 K 203-400 A5	round pins	B 33	25 blister	

Adaptors

Adaptors (In Series)

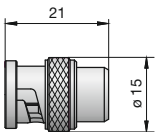
Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
71 S 101-S00 N5	straight	BNC male - male		1	
71 K 101-K00 N5	straight	BNC female - female		1	
71 K 501-K00 N5	straight panel	BNC female - female; round flange	B 3	1	
71 K 542-K00 A5	straight panel	BNC female - female; round flange, insulated	B 3	1	
71 S 201-K00 N5	right angle	male - female		1	
71 S 301-K00 N5	T-adaptor	N female - male - female		1	

Adaptors (Inter Series)

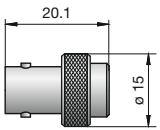
Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
71 S 173-K00 N5	straight	BNC 75 Ω male - N 75 Ω female		1	
29 K 571-K00 N5	straight panel	MCX female - BNC 75 Ω female round flange	B 1	1	
88 S 171-S00 L5	straight, Type A III. Generation	1.6-5.6 male - BNC 75 Ω male		1	
88 S 171-K00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

Terminations

Termination Plug

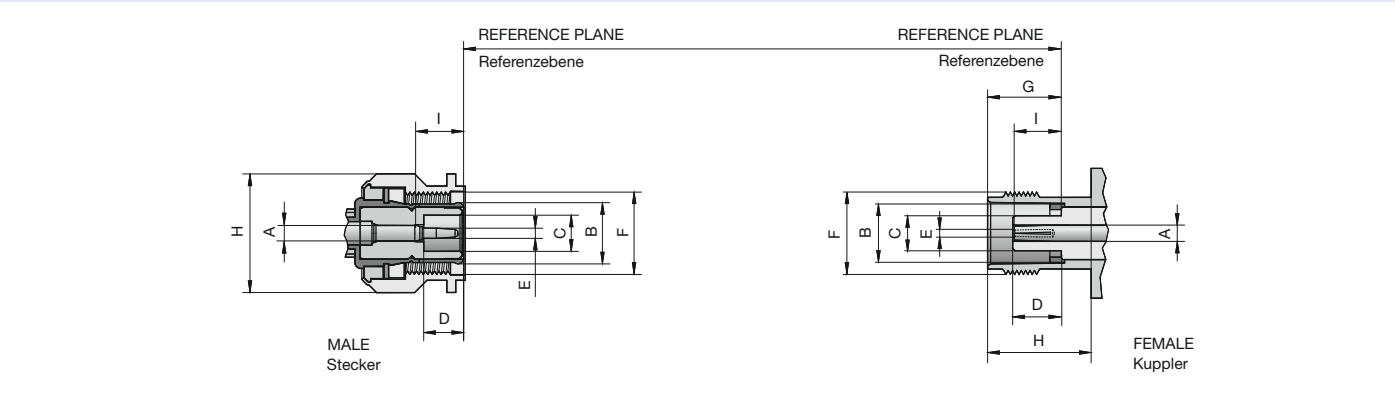
Ordering Number	Remarks	Return Loss	Packing Unit	
71 S 1RR-001 N4	1 Watt Frequency: DC to 2 GHz	≥ 20.8 dB @ DC to 1 GHz ≥ 15.6 dB @ 1 GHz to 2 GHz	1	

Termination Jack

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

Interface Dimensions TNC, 50 Ω

Code 56



TNC, 50 Ω

	Male Stecker		Female Kuppler	
dimension [mm]	min.	max.	min.	max.
A	2.06	2.21	2.06	2.21 1)
B		1)	8.10	8.15
C	4.83			4.72
D	5.28	5.79	4.78	5.28
E	1.32	1.37		1)
F	7/16-28 UNEF-2B		7/16-28 UNEF-2A	
G			8.31	8.51
H	16.00 nom.		10.52	
I	5.33	5.84	4.55	5.23

1) resilient, dimension to meet electrical and mechanical requirements

Features

Interface according to IEC 60169-17, MIL-PRF-39012, DIN EN 122200
Frequency range DC to 10 GHz (max.), DC to 4 GHz (opt.)
Return loss (cable connector straight) ≥ 20 dB (typ.)
Impedance 50 Ω
Screw-on coupling

Product Range

- Cable connectors
- PCB connectors
- Panel connectors
- Gas-tight versions
- Adaptors
- Terminations
- Accessories

Further connectors are available on request

Technical Data TNC, 50 Ω

Code 56

Applicable standards Anwendbare Normen	
Interface according to Interface gemäß	IEC 60169-17, MIL-PRF-39012, DIN EN 122200
Quality tested according to Qualitätsprüfung gemäß	MIL-STD-202
Electrical data Elektrische Daten	
Impedance Wellenwiderstand	50 Ω
Frequency range Frequenzbereich	DC to 10 GHz (max.) DC to 4 GHz (opt.)
Return loss (cable connector straight) Rückflusdämpfung (Kabelsteckverbinder gerade)	≥ 20 dB (typ.)
Insertion loss Dämpfung	≤ 0.1 x √f(GHz) dB
Insulation resistance Isolationswiderstand	≥ 5 GΩ
Center contact resistance Übergangswiderstand Innenleiter	≤ 1.5 mΩ
Outer contact resistance Übergangswiderstand Außenleiter	≤ 1 mΩ
Test voltage Prüfspannung	1500 V rms
Working voltage Betriebsspannung	500 V rms
Power handling Leistungsbelastbarkeit	80 W @ 2 GHz
Mechanical data Mechanische Daten	
Mating cycles Steckzyklen	≥ 500
Center contact captivation Innenleiter Haltekraft	axial: ≥ 27 N
Coupling test torque Prüfdrehmoment	≤ 1.7 Nm
Coupling torque recommended Drehmoment empfohlen	0.46 Nm to 0.69 Nm
Environmental data Umweltdaten	
Temperature range Temperaturbereich	-65 °C to +165 °C
Thermal shock Temperaturzyklen	MIL-STD-202, Method 107, Condition B
Climatic category Klimakategorie	IEC 60068 65/165/21
Corrosion resistance Korrosionsbeständigkeit	MIL-STD-202, Method 101, Condition B
Moisture resistance Feuchtigkeitsbeständigkeit	MIL-STD-202, Method 106
Vibration Vibration	MIL-STD-202, Method 204, Condition B
Shock Schock	MIL-STD-202, Method 213, Condition G
Max. soldering temperature (PCB connectors) Max. Löttemperatur (Leiterplattensteckverbinder)	IEC 61760-1, +260 °C for 10 sec.
Materials Materialien	
Spring loaded contact parts Federnde Kontaktteile	CuBe / CuSn, Au plating
Center contact Innenleiter	CuZn, Au plating
Outer contact Außenleiter	CuZn, Ni / white bronze plating
Crimping ferrule Crimphülse	Copper alloy, white bronze plating
Dielectric Dielektrikum	PTFE
Gasket Dichtung	Rubber

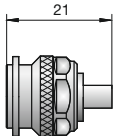
Rosenberger-connectors fulfill in principle the indicated data of the Technical Data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and execution. Specific data sheets for particular products can be provided on request from your Rosenberger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

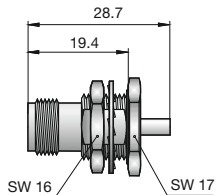
Straight Plug, solder

Semi-Rigid Cables

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

Panel Jack, solder, hexagonal flange

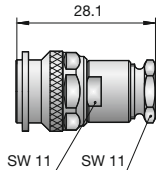
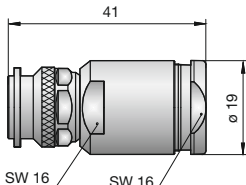
Semi-Rigid Cables

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

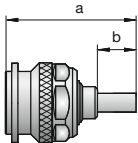
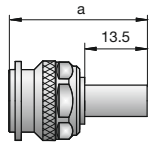
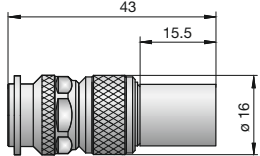
Straight Plug, clamp

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	

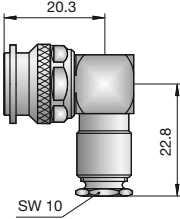
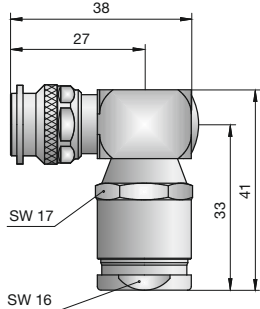
Straight Plug, crimp

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit	
56 S 107-801 N5	a = 24.2 mm; b = 7.0 mm	01	51 T	11 W 150-402	100	
56 S 107-802 N5	a = 24.2 mm; b = 7.0 mm	02	51 T	11 W 150-402	100	
56 S 107-803 N5	a = 24.2 mm; b = 7.0 mm	03	51 T	11 W 150-402	100	
56 S 107-106 N5	a = 28.6 mm	06	51 P10	11 W 150-208	1, 100	
56 S 107-108 N5	a = 28.6 mm	07, 08	51 P10	11 W 150-208	1, 100	
56 S 107-1Y8 N5	a = 27.1 mm crimping sleeve 12.0 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	

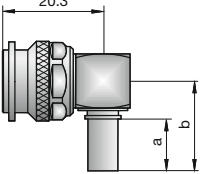
Right Angle Plug, clamp

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	

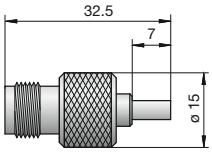
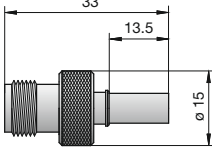
Right Angle Plug, solder crimp

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit	
56 S 207-302 N5	a = 7.0 mm; b = 14.7 mm	02	51 M2	11 W 150-102	100	
56 S 207-303 N5	a = 7.0 mm; b = 14.7 mm	03	51 M2	11 W 150-102	100	
56 S 209-306 N5	a = 13.5 mm; b = 21.2 mm	06	51 M	11 W 150-108	100	
56 S 209-308 N5	a = 13.5 mm; b = 21.2 mm	07, 08	51 M	11 W 150-108	100	

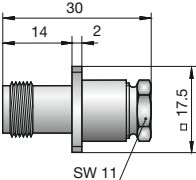
Straight Jack, crimp

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	

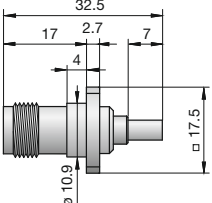
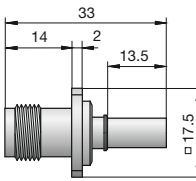
Panel Jack, clamp, 4-hole flange

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-2B	06, 07, 08	51 E	B 6	1	

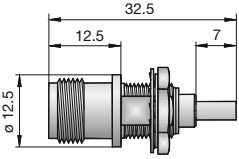
Panel Jack, crimp, 4-hole flange

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-2B	06	51 P1	B 101	11 W 150-208	1	
56 K 407-108 N5	4 x 3-56 UNF-2B	07, 08	51 P1	B 101	11 W 150-208	1	

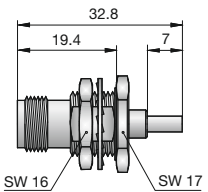
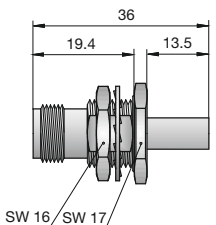
Panel Jack, crimp, round flange

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

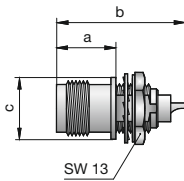
Flexible Cables

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

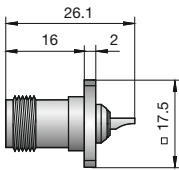
Panel Jack, round flange

Solder End

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
56 K 504-200 N5	front mount	a = 12.0 mm; b = 26.5 mm; c = 12.5 mm	B 2	1	
56 K 508-200 N5	front mount	a = 14.0 mm; b = 33.0 mm; c = 14.8 mm pressurized	B 1	1	

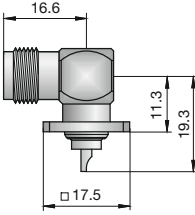
Panel Jack, 4-hole flange

Solder End

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

Right Angle Panel Jack, 4-hole flange

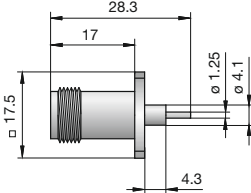
Solder End

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

Panel Connectors - Coaxial End

Panel Jack, 4-hole flange

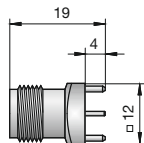
Coaxial End

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

PCB Connectors - Solder Pin

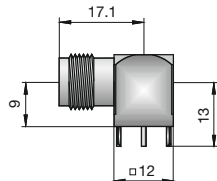
Straight Jack, PCB

Solder Pin

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

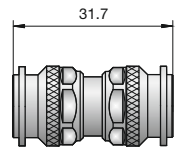
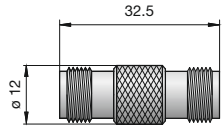
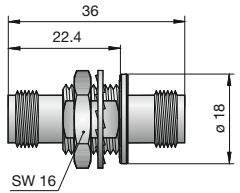
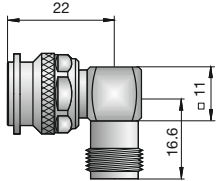
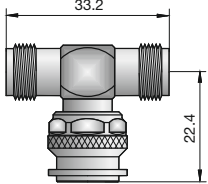
Right Angle Jack, PCB

Solder Pin

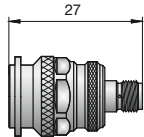
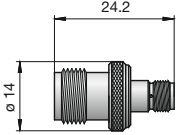
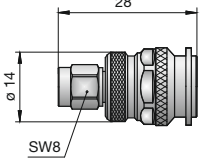
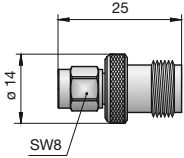
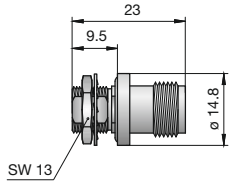
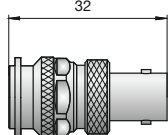
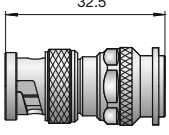
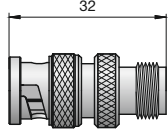
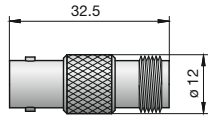
Ordering Number	Remarks	Panel Piercing / PCB Layout	Packing Unit	
56 K 201-400 A5	round pins	B 32	50 blister	

Adaptors

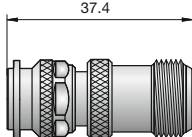
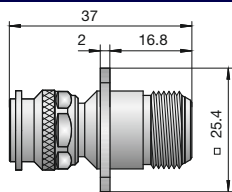
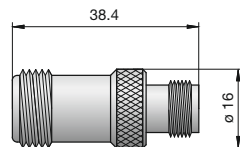
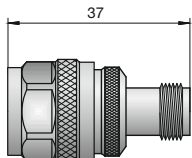
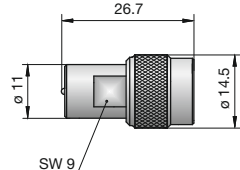
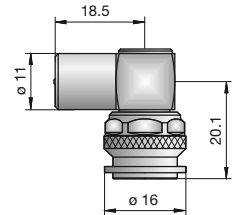
Adaptors (In Series)

Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	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 panel	TNC female - female round flange	B 3	1	
56 S 201-K00 N5	right angle	TNC male - female		1	
56 S 301-K00 N5	T-adaptor	TNC female - male - female		1	

Adaptors (Inter Series)

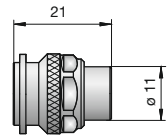
Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
56 S 132-K00 N5	straight	TNC male - SMA female		1	
56 K 132-K00 N5	straight	TNC female - SMA female		1	
32 S 156-S00 L5	straight	SMA male - TNC male		1	
32 S 156-K00 L5	straight	SMA male - TNC female		1	
29 K 556-K00 A5	straight panel	MCX female - TNC 50 Ω 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	
51 K 156-K00 N5	straight	BNC female - TNC female		1	

BNC
TNC

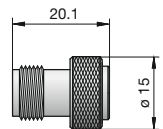
Ordering Number	Version	Remarks	Panel Piercing / PCB Layout	Packing Unit	
56 S 153-K00 N5	straight	TNC male - N female		1	
56 S 453-K00 N5	straight panel	TNC male - N female 4-hole flange	B 9	1	
53 K 156-K00 N5	straight	N female - TNC female		1	
53 S 156-K00 N5	straight	N male - TNC female		1	
26 S 156-S00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

Terminations

Termination Plug

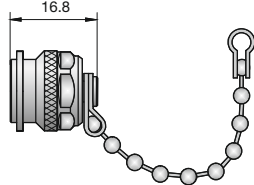
Ordering Number	Remarks	Return Loss	Packing Unit	
56 S 1RR-001 N4	1 Watt Frequency: DC to 2 GHz	≥ 20.8 dB @ DC to 1 GHz ≥ 15.6 dB @ 1 GHz to 2 GHz	1	

Termination Jack

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

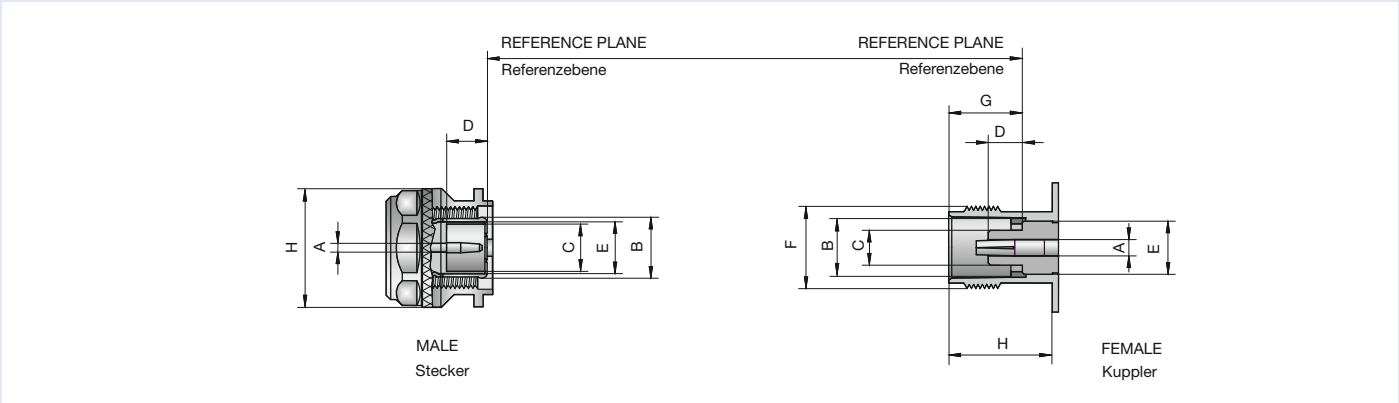
Accessories

Protection Cap

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

Interface Dimensions TNC, 75 Ω

Code 76



TNC, 75 Ω

dimension [mm]	Male Stecker		Female Kuppler	
	min.	max.	min.	max.
A	1.32	1.37	2.06	2.21
B		1)	8.10	8.15
C	4.83			4.72
D	5.28	5.79	2.50 nom.	
E	7.00 nom.		7.00 nom.	
F	7/16-28 UNEF-2B		7/16-28 UNEF-2A	
G			8.31	8.51
H	16.00 nom.		10.52	

1) resilient, dimension to meet electrical and mechanical requirements

Features

Interface according to IEC 60169-17, MIL-PRF-39012, DIN EN 122200
Frequency range DC to 4 GHz (max.), DC to 1.5 GHz (opt.)
Return loss (cable connector straight) ≥ 20 dB (typ.)
Impedance 75 Ω
Screw-on coupling

Product Range

Cable connectors
PCB connectors
Adaptors

Further connectors are available on request

Technical Data TNC, 75 Ω

Code 76

Applicable standards Anwendbare Normen	
Interface compatible with Interface kompatibel mit	IEC 60169-17, MIL-PRF-39012, DIN EN 122200
Quality tested according to Qualitätsprüfung gemäß	MIL-STD-202
Electrical data Elektrische Daten	
Impedance Wellenwiderstand	75 Ω
Frequency range Frequenzbereich	DC to 4 GHz (max.) DC to 1.5 GHz (opt.)
Return loss (cable connector straight) Rückflusdämpfung (Kabelsteckverbinder gerade)	≥ 20 dB (typ.)
Insertion loss Dämpfung	≤ 0.1 x √f(GHz) dB
Insulation resistance Isolationswiderstand	≥ 5 GΩ
Center contact resistance Kontaktwiderstand Innenleiter	≤ 1.5 mΩ
Outer contact resistance Kontaktwiderstand Außenleiter	≤ 1 mΩ
Test voltage Prüfspannung	1500 V rms
Working voltage Betriebsspannung	500 V rms
Power handling Leistungsbelastbarkeit	80 W @ 2 GHz
Mechanical data Mechanische Daten	
Mating cycles Steckzyklen	≥ 500
Center contact captivation Innenleiter Haltekraft	axial: ≥ 27 N
Coupling test torque Prüfdrehmoment	≤ 1.7 Nm
Coupling torque recommended Drehmoment empfohlen	0.46 Nm to 0.69 Nm
Environmental data Umweltdaten	
Temperature range Temperaturbereich	-65 °C to +165 °C
Thermal shock Temperaturzyklen	MIL-STD-202, Method 107, Condition B
Climatic category Klimakategorie	IEC 60068 65/165/21
Corrosion resistance Korrosionsbeständigkeit	MIL-STD-202, Method 101, Condition B
Moisture resistance Feuchtigkeitsbeständigkeit	MIL-STD-202, Method 106
Vibration Vibration	MIL-STD-202, Method 204, Condition B
Shock Schock	MIL-STD-202, Method 213, Condition G
Max. soldering temperature (PCB connectors) Max. Löttemperatur (Leiterplattensteckverbinder)	IEC 61760-1, +260 °C for 10 sec.
Materials Materialien	
Spring loaded contact parts Federnde Kontaktteile	CuBe / CuSn, Au plating
Center contact Innenleiter	CuZn, Au plating
Outer contact Außenleiter	CuZn, Ni / white bronze plating
Crimping ferrule Crimphülse	Copper alloy, white bronze plating
Dielectric Dielektrikum	PTFE
Gasket Dichtung	Rubber

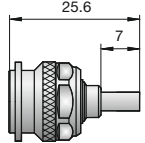
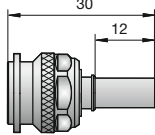
Rosenberger-connectors fulfill in principle the indicated data of the Technical Data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and execution. Specific data sheets for particular products can be provided on request from your Rosenberger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

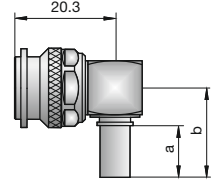
Straight Plug, crimp

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	

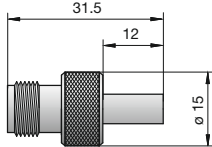
Right Angle Plug, solder crimp

Flexible Cables

Ordering Number	Remarks	Cable Group	Assembly Instruction	Crimp Inserts	Packing Unit	
76 S 209-302 N5	a = 7.0 mm; b = 14.7 mm	02	51 M2	11 W 150-102	100	
76 S 201-309 N5	a = 12.0 mm; b = 19.7 mm	09	51 M	11 W 150-209	100	

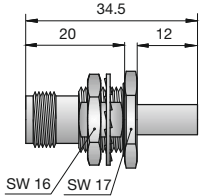
Straight Jack, crimp

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 flange

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

Adaptors (In Series)

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 panel	TNC female - female round flange	B 3	1	
76 S 201-K00 N5	right angle	TNC male - female		1	