SMB, SMC, SMG, SSMB, SSMC

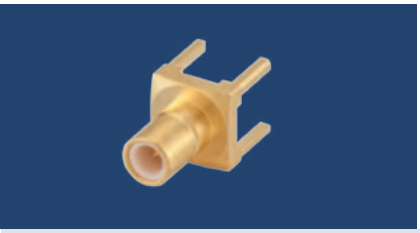
Rosenberger provides the following subminiature coaxial connector series for various application fields:

- SMB connectors:
  Snap-on connectors for applications up to 4 GHz
- SMC connectors:
  Screw-on conectors for applications up to 6 GHz
- SMG connectors:
  Slide-on connectors for applications up to 4 GHz
- SSMB connectors:
  Snap-on connectors for applications up to 3 GHz
- SSMC connectors:
  Screw-on connectors for applications up to 6 GHz

Rosenberger bietet eine Reihe von Subminiatur-Koaxial-Steckverbinder-Serien für verschiedene Anwendungsbereiche:

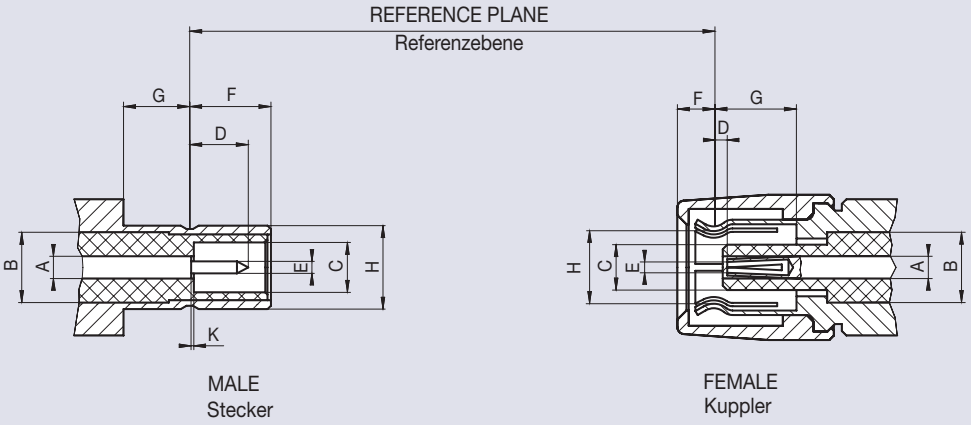
- SMB-Steckverbinder:
  Snap-on Steckverbinder für Anwendungen bis 4 GHz
- SMC-Steckverbinder:
  Schraub-Steckverbinder für Anwendungen bis 6 GHz
- SMG-Steckverbinder:
  Einschub-Steckverbinder für Anwendungen bis 4 GHz
- SSMB-Steckverbinder:
  Snap-on-Steckverbinder für Anwendungen bis 3 GHz
- SSMC-Steckverbinder:
  Schraub-Steckverbinder für Anwendungen bis 6 GHz

SMB 50 Ω
SMC 50 Ω
SMG 50 Ω
SMB 75 Ω
SSMB
SSMC



Interface Dimensions SMB 50 Ω

Code 59



Dimensions in mm

	Male | Stecker		Female | Kuppler	
	min.	max.	min.	max.
A	[2]		[2]	
B	Ø 3.05 nom.		Ø 3.05 nom.	
C	Ø 2.08	–	–	Ø 2.06
D	–	2.97	0.18	0.94
E	Ø 0.48	Ø 0.53	[1]	
F	3.33	3.58	–	1.63
G	1.65	–	3.58	–
H	Ø 3.66	Ø 3.71	[1]	
K	0.00	0.18	–	–

[1] Resilient, dimension to meet electrical and mechanical requirements
[2] Contact diameter refers to 50 Ω

Please note: Rosenberger defines male – female according the design of center contact.

Bitte beachten: Rosenberger definiert die Stecker-Kuppler-Bezeichnung nach der Form des Innenleiters.

Features

- Interface according to IEC 60169-10, CECC 22130, MIL-PRF-39012
- Frequency range DC to 4 GHz
- Return loss (cable connector straight) ≥ 17 dB (typ.)
- Impedance 50 Ω
- Snap-on coupling

Product Range

- Cable connectors
- PCB connectors
- Panel connectors
- Adaptors
- Terminations

Technical Data SMB 50 Ω

Code 59

Applicable standards | Anwendbare Normen	
Interface according to | Interface gemäß	IEC 60169-10, CECC 22130, MIL-PRF-39012
Electrical data | Elektrische Daten	
Impedance | Wellenwiderstand	50 Ω
Frequency range | Frequenzbereich	DC to 4 GHz
Return loss (cable connector straight) | Rückflussdämpfung (Kabelsteckverbinder gerade)	≥ 17 dB (typ.)
Insertion loss | Dämpfung	≤ 0.1 x $\sqrt{f\ (GHz)}$ dB
Insulation resistance | Isolationswiderstand	≥ 1 GΩ
Center contact resistance | Übergangswiderstand Innenleiter	≤ 5 mΩ
Outer contact resistance | Übergangswiderstand Außenleiter	≤ 2.5 mΩ
Test voltage | Prüfspannung	750 V rms
Working voltage | Betriebsspannung	250 V rms
Contact current | Kontaktstrombelastbarkeit	≤ 1.5 A DC
RF leakage - Interface | Schirmdämpfung	≥ 55 dB @ DC to 1 GHz
Mechanical data | Mechanische Daten	
Mating cycles | Steckzyklen	≥ 500
Center contact captivation | Innenleiter Haltekraft	axial: ≥ 10 N
Engagement force | Steckkraft	≤ 63 N
Disengagement force | Ziehkraft	8 N to 63 N
Environmental data | Umweltdaten	
Temperature range | Temperaturbereich	-55 °C to +155 °C
Thermal shock | Temperaturzyklen	MIL-STD-202, Method 107, Condition B
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
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, Au plating
Center contact | Innenleiter	CuZn, Au plating
Outer contact | Außenleiter	CuZn, Au plating
Crimping ferrule | Crimphülse	Cu, Au plating
Dielectric | Dielektrikum	PTFE
Gasket | Dichtung	Rubber

Rosenberger connectors generally fulfill the indicated technical data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and workmanship. Data sheets for particular products can be downloaded on our website or can be provided on request from your Rosenberger sales partner.

Rosenberger-Steckverbinder erfüllen grundsätzlich die hier angegebenen technischen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte der Steckverbinder hiervon abweichen. Datenblätter zu einzelnen Produkten können Sie von unserer Website herunterladen oder auf Anfrage von Ihrem Rosenberger-Ansprechpartner erhalten.

Cable Connectors - Semi-Rigid Cables

Straight Jack, solder **Semi-Rigid Cables**

Rosenberger No.	Order No.	Sales Unit	Packaging	Cable Group	
59 K 101-271 L5	171541	100	standard	71	

Right Angle Jack, solder **Semi-Rigid Cables**

Rosenberger No.	Order No.	Sales Unit	Packaging	Cable Group	
59 K 214-271 L5	171578	50	standard	71	

Cable Connectors - Flexible Cables

Straight Plug, crimp **Flexible Cables**

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	Cable Group	
59 S 102-102 L5	171543	50	standard	MIL-PRF-39012/68-0009	02	

Straight Jack, clamp **Flexible Cables**

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	Cable Group	
59 K 101-001 L5	170629	25	standard	MIL-PRF-39012/67-0003	01	
59 K 101-002 L5	171551	25	standard		02	

Straight Jack, crimp — **Flexible Cables**

Rosenberger No.	Order No.	Sales Unit	Packaging	Cable Group	
59 K 106-101 L5	170403	100	standard	01	
59 K 106-102 L5	171475	100	standard	02	
59 K 106-103 L5	171568	50	standard	03	

Right Angle Jack, solder-crimp — **Flexible Cables**

Rosenberger No.	Order No.	Sales Unit	Packaging	Cable Group	
59 K 204-301 L5	104873	50	standard	01	
59 K 214-302 L5	171361	100	standard	02	
59 K 214-303 L5	170630	50	standard	03	

Panel Connectors - Solder End

Panel Plug, hexagonal flange — **Solder End**

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	
59 S 601-200 L5	170631	100	standard	hexagonal flange front mount MIL-PRF-39012/71-0002	
59 S 602-200 L5	171555	100	standard	hexagonal flange rear mount MIL-PRF-39012/71-0001	

PCB Connectors - Solder Pin

Straight Plug, PCB — **Solder Pin**

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	
59 S 101-400 L5	170623	300	standard		

Right Angle Plug, PCB — **Solder Pin**

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	
59 S 225-400 L5	246871	100	standard	round pins	
59 S 212-400 L5	171557	50	standard		

Right Angle Plug, PCB, panel mount — **Solder Pin**

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	
59 S 206-400 L5	171556	50	standard	rear mount	

Straight Jack, PCB — **Solder Pin**

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	
59 K 102-400 L5	171558	50	blister		

Adaptors

Adaptors SMB 50 Ω - SMB 50 Ω

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	
59 S 101-S00 L5	182492	1	standard	SMB male - male	
59 S 601-S00 L5	182490	1	standard	SMB male - male hexagonal flange	
59 K 101-K00 L5	182485	1	standard	SMB female - female	
59 S 301-S00 L5	107115	1	standard	SMB male - male - male T-adaptor	
59 S 301-K00 L5	103744	1	standard	SMB male - female - male T-adaptor	

Adaptors SMB 50 Ω - SMA

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	
59 S 132-S00 L5	108160	1	standard	SMB male - SMA male	
59 S 132-K00 L5	182491	1	standard	SMB male - SMA female	
59 K 132-S00 L5	104605	1	standard	SMB female - SMA male	
59 K 132-K00 L5	182487	1	standard	SMB female - SMA female	

Adaptors SMB 50 Ω - BNC 50 Ω

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	
59 S 151-S00 L5	196195	1	standard	SMB male - BNC male	
59 S 151-K00 L5	196194	1	standard	SMB male - BNC female	
59 K 151-S00 L5	104641	1	standard	SMB female - BNC male	
59 K 151-K00 L5	196192	1	standard	SMB female - BNC female	

Adaptors SMB 50 Ω - N 50 Ω

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	
59 S 153-S00 L5	196198	1	standard	SMB male - N male	
59 S 153-K00 L5	196197	1	standard	SMB male - N female	
59 K 153-S00 L5	104667	1	standard	SMB female - N male	
59 K 153-K00 L5	196193	1	standard	SMB female - N female	

Terminations

Termination Plug

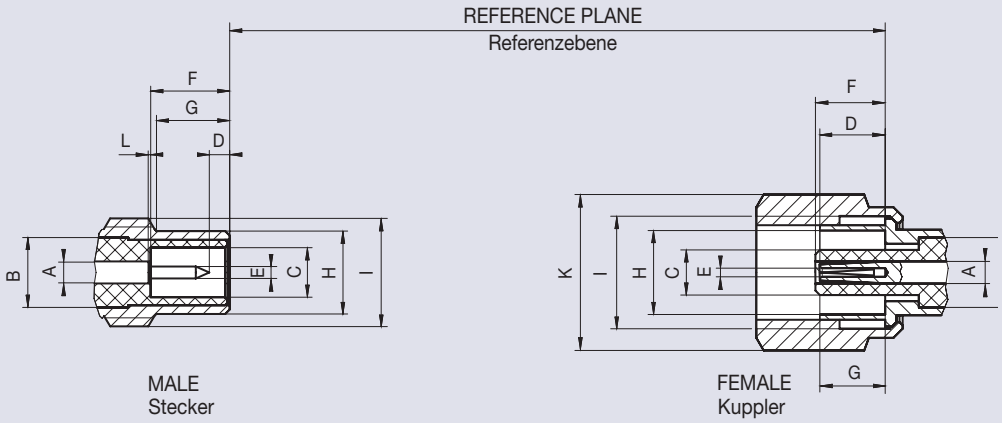
Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	Return Loss	
59 S 15R-001 E3	107877	1	standard	1 Watt Frequency: DC to 6 GHz	≥ 23.1 dB @ DC to 2.5 GHz ≥ 17 dB @ 2.5 GHz to 6 GHz	

Termination Jack

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	Return Loss	
59 K 15R-001 E3	136898	1	standard	1 Watt Frequency: DC to 2 GHz	≥ 24.9 dB @ DC to 1 GHz ≥ 20.8 dB @ 1 GHz to 2 GHz	

Interface Dimensions SMC 50 Ω

Code 39



Dimensions in mm

	Male | Stecker		**Female** | Kuppler	
	min.	max.	min.	max.
A	[2]		[2]	
B	–	Ø 3.07	–	Ø 3.07
C	Ø 2.08	–	–	Ø 2.06
D	0.61	–	2.85	3.40
E	Ø 0.48	Ø 0.53	[1]	
F	3.40	–	–	3.40
G	3.12	3.38	–	3.10
H	–	Ø 3.71	Ø 3.73	–
I	10-32 UNF-2A		10-32 UNF-2B	
K	–	–	hex 6	
L	0.00	0.18	–	–

[1] Resilient, dimension to meet electrical and mechanical requirements
[2] Contact diameter refers to 50 Ω

Features

- Interface according to IEC 60169-9, CECC 22140, MIL-PRF-39012
- Frequency range DC to 6 GHz
- Return loss (cable connector straight) ≥ 20 dB @ 3 GHz
- Impedance 50 Ω
- Screw-on coupling

Product Range

- Cable connectors
- PCB connectors
- Panel connectors
- Adaptors

Technical Data SMC 50 Ω

Code 39

Applicable standards | Anwendbare Normen	
Interface according to | Interface gemäß	IEC 60169-9, CECC 22140, MIL-PRF-39012
Electrical data | Elektrische Daten	
Impedance | Wellenwiderstand	50 Ω
Frequency range | Frequenzbereich	DC to 6 GHz
Return loss (cable connector straight) | Rückflussdämpfung (Kabelsteckverbinder gerade)	≥ 30 dB @ DC to 1 GHz ≥ 20 dB @ 1 GHz to 3 GHz ≥ 18 dB @ 3 GHz to 6 GHz
Insertion loss | Dämpfung	≤ 0.1 x $\sqrt{f\ (GHz)}$ dB
Insulation resistance | Isolationswiderstand	≥ 1 GΩ
Center contact resistance | Übergangswiderstand Innenleiter	≤ 5 mΩ
Outer contact resistance | Übergangswiderstand Außenleiter	≤ 2.5 mΩ
Test voltage | Prüfspannung	750 V rms
Working voltage | Betriebsspannung	250 V rms
Contact current | Kontaktstrombelastbarkeit	≤ 1.5 A DC
RF leakage - Interface | Schirmdämpfung	≥ 90 dB @ DC to 1 GHz
Mechanical data | Mechanische Daten	
Mating cycles | Steckzyklen	≥ 500
Center contact captivation | Innenleiter Haltekraft	axial: ≥ 10 N
Coupling test torque | Prüfdrehmoment	≤ 0.71 Nm
Coupling torque recommended | Drehmoment empfohlen	0.25 Nm to 0.35 Nm
Environmental data | Umweltdaten	
Temperature range | Temperaturbereich	-55 °C to +155 °C
Thermal shock | Temperaturzyklen	MIL-STD-202, Method 107, Condition B
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 D
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, Au plating
Center contact | Innenleiter	CuZn, Au plating
Outer contact | Außenleiter	CuZn, Au plating
Crimping ferrule | Crimphülse	Cu, Au plating
Dielectric | Dielektrikum	PTFE
Gasket | Dichtung	Rubber

Rosenberger connectors generally fulfill the indicated technical data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and workmanship. Data sheets for particular products can be downloaded on our website or can be provided on request from your Rosenberger sales partner.

Rosenberger-Steckverbinder erfüllen grundsätzlich die hier angegebenen technischen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte der Steckverbinder hiervon abweichen. Datenblätter zu einzelnen Produkten können Sie von unserer Website herunterladen oder auf Anfrage von Ihrem Rosenberger-Ansprechpartner erhalten.

Cable Connectors - Semi-Rigid Cables

Panel Plug, solder, round flange — **Semi-Rigid Cables**

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	Cable Group	
39 S 501-271 L5	180222	25	standard	round flange rear mount length 15 mm	71	

Right Angle Jack, solder — **Semi-Rigid Cables**

Rosenberger No.	Order No.	Sales Unit	Packaging	Cable Group	
39 K 20A-271 L5	180225	25	standard	71	

Cable Connectors - Flexible Cables

Straight Jack, crimp — **Flexible Cables**

Rosenberger No.	Order No.	Sales Unit	Packaging	Cable Group	
39 K 102-101 L5	141397	25	standard	01	
39 K 102-102 L5	138704	25	standard	02	

Right Angle Jack, solder-crimp — **Flexible Cables**

Rosenberger No.	Order No.	Sales Unit	Packaging	Cable Group	
39 K 202-301 L5	155428	25	standard	01	
39 K 202-302 L5	107970	25	standard	02	
39 K 202-303 L5	107214	25	standard	03	

Panel Connectors - Solder End

Panel Plug, hexagonal flange **Solder End**

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	
39 S 601-200 L5	180221	25	standard	hexagonal flange front mount	

PCB Connectors - Solder Pin

Straight Plug, PCB **Solder Pin**

Rosenberger No.	Order No.	Sales Unit	Packaging	
39 S 101-400 L5	180224	25	blister	

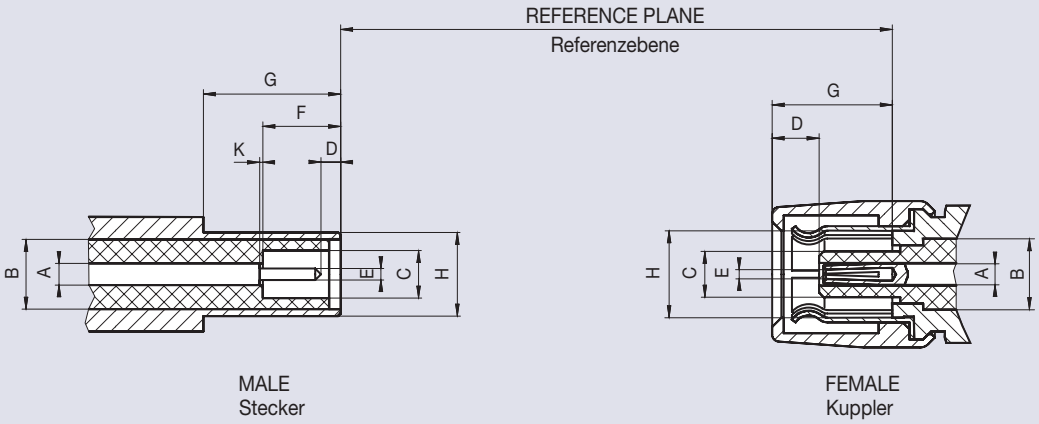
Adaptors

Adaptors SMC - SMA

Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	
39 S 132-S00 L5	101139	1	standard	SMC male - SMA male	
39 S 132-K00 L5	104040	1	standard	SMC male - SMA female	
39 K 132-K00 L5	180220	1	standard	SMC female - SMA female	

Interface Dimensions SMG 50 Ω

Code 49



Dimensions in mm

	Male | Stecker		**Female** | Kuppler	
	min.	max.	min.	max.
A	[2]		[2]	
B	Ø 3.05 nom.		Ø 3.05 nom.	
C	Ø 2.08	Ø 2.16	–	Ø 2.06
D	0.61	–	1.81	2.36
E	Ø 0.48	Ø 0.53	[1]	
F	3.40	–	–	–
G	6.00	–	–	6.10
H	Ø 3.66	Ø 3.71	[1]	
K	0.00	0.18	–	–

[1] Resilient, dimension to meet electrical and mechanical requirements
[2] Contact diameter refers to 50 Ω

Features

- Interface intermateable with SMB connectors
- Frequency range DC to 4 GHz
- Return loss (cable connector straight) ≥ 17 dB (typ.)
- Impedance 50 Ω
- Slide-on coupling

Product Range

Connectors are available on request

Technical Data SMG 50 Ω

Code 49

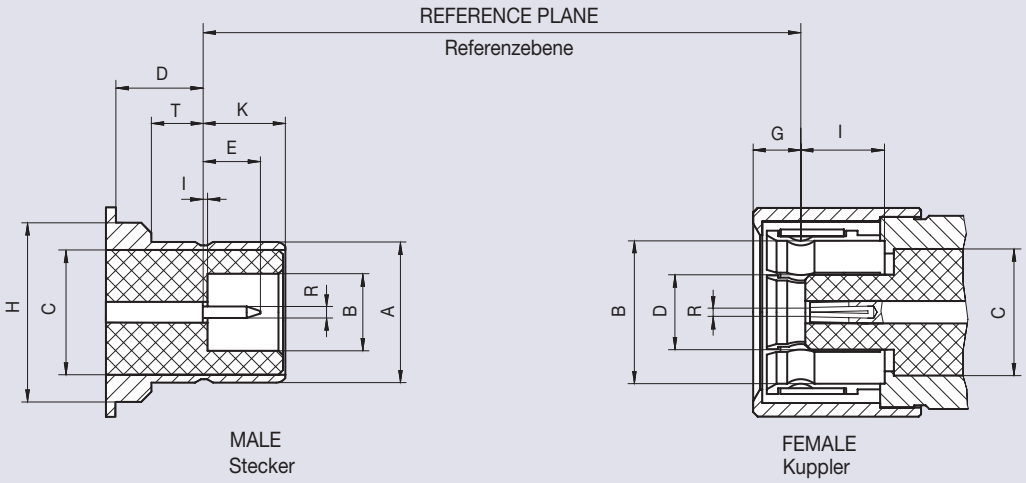
Applicable standards | Anwendbare Normen	
Interface intermateable with | Interface steckkompatibel mit	SMB connectors
Electrical data | Elektrische Daten	
Impedance | Wellenwiderstand	50 Ω
Frequency range | Frequenzbereich	DC to 4 GHz
Return loss (cable connector straight) | Rückflussdämpfung (Kabelsteckverbinder gerade)	≥ 17 dB (typ.)
Insertion loss | Dämpfung	≤ 0.1 x $\sqrt{f\ (GHz)}$ dB
Insulation resistance | Isolationswiderstand	≥ 1 GΩ
Center contact resistance | Übergangswiderstand Innenleiter	≤ 5 mΩ
Outer contact resistance | Übergangswiderstand Außenleiter	≤ 2.5 mΩ
Test voltage | Prüfspannung	750 V rms
Working voltage | Betriebsspannung	250 V rms
Contact current | Kontaktstrombelastbarkeit	≤ 1.5 A DC
RF leakage - Interface | Schirmdämpfung	≥ 55 dB @ DC to 1 GHz
Mechanical data | Mechanische Daten	
Mating cycles | Steckzyklen	≥ 500
Center contact captivation | Innenleiter Haltekraft	axial: ≥ 10 N
Engagement force | Steckkraft	≤ 8 N
Disengagement force | Ziehkraft	≥ 3 N
Environmental data | Umweltdaten	
Temperature range | Temperaturbereich	-55 °C to +155 °C
Thermal shock | Temperaturzyklen	MIL-STD-202, Method 107, Condition B
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 C
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, Au plating
Center contact | Innenleiter	CuZn, Au plating
Outer contact | Außenleiter	CuZn, Au plating
Crimping ferrule | Crimphülse	Cu, Au plating
Dielectric | Dielektrikum	PTFE
Gasket | Dichtung	Rubber

Rosenberger connectors generally fulfill the indicated technical data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and workmanship. Data sheets for particular products can be downloaded on our website or can be provided on request from your Rosenberger sales partner.

Rosenberger-Steckverbinder erfüllen grundsätzlich die hier angegebenen technischen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte der Steckverbinder hiervon abweichen. Datenblätter zu einzelnen Produkten können Sie von unserer Website herunterladen oder auf Anfrage von Ihrem Rosenberger-Ansprechpartner erhalten.

Interface Dimensions SMB 75 Ω

Code 759



Dimensions in mm

	Male | Stecker		**Female** | Kuppler	
	min.	max.	min.	max.
A	Ø 6.20	Ø 6.25	–	–
B	Ø 3.35	–	Ø 6.25	–
C	Ø 5.60 nom.		Ø 5.60 nom.	
D	2.36	–	–	Ø 3.33
E	–	2.97	–	–
G	–	–	–	2.36
H	–	Ø 7.94	–	–
I	–	0.18	3.58	–
K	3.33	3.58	–	–
R	Ø 0.48	Ø 0.53	[1]	
T	2.01	–	–	–

[1] Resilient, dimension to meet electrical and mechanical requirements

Features

- Interface similar to BT 43 (BS 9210 F0022)
- Frequency range DC to 4 GHz
- Return loss (cable connector straight) ≥ 20 dB (typ.)
- Impedance 75 Ω
- Snap-on coupling

Product Range

Connectors are available on request

Technical Data SMB 75 Ω

Code 759

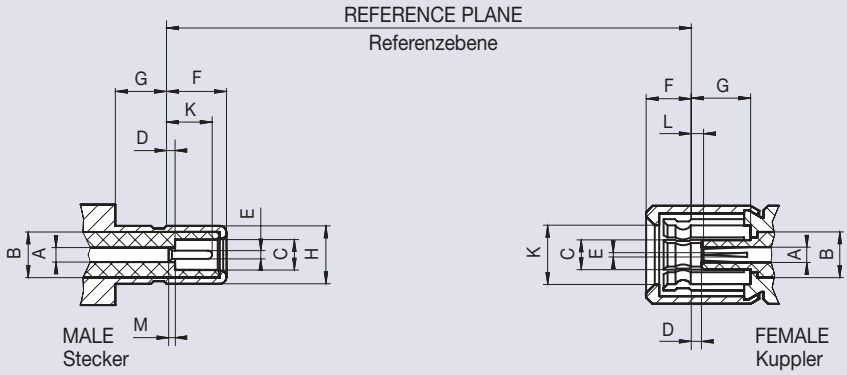
Applicable standards | Anwendbare Normen	
Interface similar to | Interface ähnlich	BT 43 (BS 9210 F0022)
Electrical data | Elektrische Daten	
Impedance | Wellenwiderstand	75 Ω
Frequency range | Frequenzbereich	DC to 4 GHz
Return loss (cable connector straight) | Rückflussdämpfung (Kabelsteckverbinder gerade)	≥ 20 dB (typ.)
Insertion loss | Dämpfung	≤ 0.1 x $\sqrt{f\ (GHz)}$ dB
Insulation resistance | Isolationswiderstand	≥ 2 GΩ
Center contact resistance | Übergangswiderstand Innenleiter	≤ 5 mΩ
Outer contact resistance | Übergangswiderstand Außenleiter	≤ 2.5 mΩ
Test voltage | Prüfspannung	750 V rms
Working voltage | Betriebsspannung	250 V rms
Contact current | Kontaktstrombelastbarkeit	≤ 1.0 A DC
RF leakage - Interface | Schirmdämpfung	≥ 70 dB @ DC to 1 GHz
Mechanical data | Mechanische Daten	
Mating cycles | Steckzyklen	≥ 500
Center contact captivation | Innenleiter Haltekraft	axial: ≥ 10 N
Engagement force | Steckkraft	8 N to 63 N
Disengagement force | Ziehkraft	8 N to 63 N
Environmental data | Umweltdaten	
Temperature range | Temperaturbereich	-40 °C to +100 °C
Dry heat | Trockene Wärme	IEC 60068-2-2
Damp heat | Feuchte Wärme	IEC 60068-2-78
Climatic category | Klimakategorie	IEC 60068-2-1 40/100/21
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, Au plating
Center contact | Innenleiter	CuZn, Au plating
Outer contact | Außenleiter	CuZn, Au plating
Crimping ferrule | Crimphülse	Cu, Ni plating
Dielectric | Dielektrikum	PTFE

Rosenberger connectors generally fulfill the indicated technical data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and workmanship. Data sheets for particular products can be downloaded on our website or can be provided on request from your Rosenberger sales partner.

Rosenberger-Steckverbinder erfüllen grundsätzlich die hier angegebenen technischen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte der Steckverbinder hiervon abweichen. Datenblätter zu einzelnen Produkten können Sie von unserer Website herunterladen oder auf Anfrage von Ihrem Rosenberger-Ansprechpartner erhalten.

Interface Dimensions SSMB

Code 35



Dimensions in mm

	Male | Stecker		Female | Kuppler	
	min.	max.	min.	max.
A	[1]		[1]	
B	Ø 2.11 nom.		Ø 2.11 nom.	
C	Ø 1.37	–	–	Ø 1.35
D	–	0.56	0.53	–
E	Ø 0.35	Ø 0.38	[2]	
F	–	2.77	–	2.26
G	2.30	–	2.74	–
H	–	Ø 2.69	–	–
K	–	2.44	Ø 2.74	–
L	–	–	0.53	0.89
M	0.00	0.13	–	–

[1] Contact diameter refers to 50 Ω
[2] Resilient, dimension to meet electrical and mechanical requirements

Features

- Interface according to EN 122170, IEC 60169-19
- Frequency range DC to 3 GHz
- Return loss (cable connector straight) ≥ 17 dB (typ.)
- Impedance 50 Ω
- Snap-on coupling

Product Range

Connectors are available on request

Technical Data SSMB

Code 35

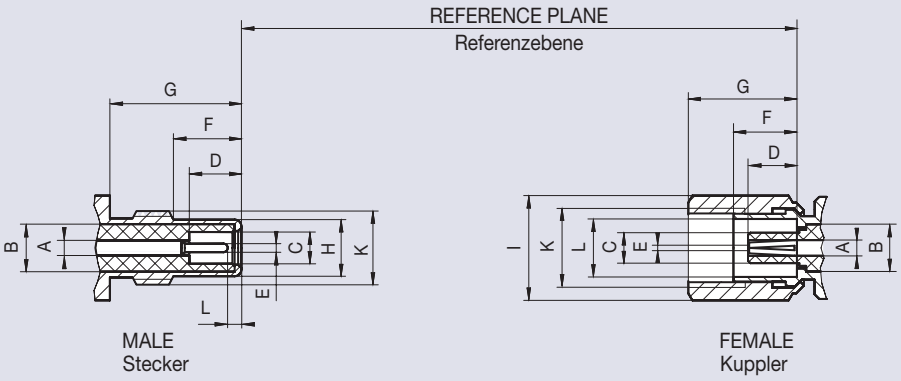
Applicable standards | Anwendbare Normen	
Interface according to | Interface gemäß	EN 122170, IEC 61169-19
Electrical data | Elektrische Daten	
Impedance | Wellenwiderstand	50 Ω
Frequency range | Frequenzbereich	DC to 3 GHz
Return loss (cable connector straight) | Rückflussdämpfung (Kabelsteckverbinder gerade)	≥ 17 dB (typ.)
Insertion loss | Dämpfung	≤ 0.1 x $\sqrt{f\ (GHz)}$ dB
Insulation resistance | Isolationswiderstand	≥ 1 GΩ
Center contact resistance | Übergangswiderstand Innenleiter	≤ 5 mΩ
Outer contact resistance | Übergangswiderstand Außenleiter	≤ 2.5 mΩ
Test voltage | Prüfspannung	500 V rms
Working voltage | Betriebsspannung	175 V rms
RF leakage - Interface | Schirmdämpfung	≥ 40 dB @ DC to 1 GHz
Mechanical data | Mechanische Daten	
Mating cycles | Steckzyklen	≥ 500
Center contact captivation | Innenleiter Haltekraft	axial: ≥ 8 N
Engagement force | Steckkraft	8 N to 27 N
Disengagement force | Ziehkraft	8 N to 27 N
Environmental data | Umweltdaten	
Temperature range | Temperaturbereich	-55 °C to +155 °C
Dry heat | Trockene Wärme	IEC 60068-2-2
Damp heat | Feuchte Wärme	IEC 60068-2-78
Climatic category | Klimakategorie	IEC 60068-2-1 55/155/21
Vibration | Vibration	IEC 60068-2-6 (10 Hz to 500 Hz, 98 m/s²)
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, Au plating
Center contact | Innenleiter	CuBe, Au plating
Outer contact | Außenleiter	CuZn, Au plating
Crimping ferrule | Crimphülse	Cu, Au plating
Dielectric | Dielektrikum	PTFE

Rosenberger connectors generally fulfill the indicated technical data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and workmanship. Data sheets for particular products can be downloaded on our website or can be provided on request from your Rosenberger sales partner.

Rosenberger-Steckverbinder erfüllen grundsätzlich die hier angegebenen technischen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte der Steckverbinder hiervon abweichen. Datenblätter zu einzelnen Produkten können Sie von unserer Website herunterladen oder auf Anfrage von Ihrem Rosenberger-Ansprechpartner erhalten.

Interface Dimensions SSMC

Code 38



Dimensions in mm

	Male | Stecker		Female | Kuppler	
	min.	max.	min.	max.
A	[1]		[1]	
B	Ø 2.11 nom.		Ø 2.11 nom.	
C	Ø 1.37	–	–	Ø 1.35
D	2.29	–	–	2.29
E	Ø 0.35	Ø 0.38	[2]	
F	2.94	–	–	2.84
G	5.71	–	–	5.70
H	–	Ø 2.54	–	–
I	–	–	hex 4	
K	6-40 UNF-2A		6-40 UNF-2B	
L	–	0.84	2.59	–

[1] Contact diameter refers to 50 Ω
[2] Resilient, dimension to meet electrical and mechanical requirements

Features

- Interface according to EN 122180, IEC 60169-20
- Frequency range DC to 6 GHz
- Return loss (cable connector straight) ≥ 16 dB (typ.)
- Impedance 50 Ω
- Screw-on coupling

Product Range

Connectors are available on request

Technical Data SSMC

Code 38

Applicable standards | Anwendbare Normen	
Interface according to | Interface gemäß	EN 122180, IEC 60169-20
Electrical data | Elektrische Daten	
Impedance | Wellenwiderstand	50 Ω
Frequency range | Frequenzbereich	DC to 6 GHz
Return loss (cable connector straight) | Rückflussdämpfung (Kabelsteckverbinder gerade)	≥ 16 dB (typ.)
Insertion loss | Dämpfung	≤ 0.1 x $\sqrt{f\ (GHz)}$ dB
Insulation resistance | Isolationswiderstand	≥ 1 GΩ
Center contact resistance | Übergangswiderstand Innenleiter	≤ 5 mΩ
Outer contact resistance | Übergangswiderstand Außenleiter	≤ 2.5 mΩ
Test voltage | Prüfspannung	500 V rms
Working voltage | Betriebsspannung	175 V rms
RF leakage - Interface | Schirmdämpfung	≥ 70 dB @ DC to 1 GHz
Mechanical data | Mechanische Daten	
Mating cycles | Steckzyklen	≥ 500
Coupling nut retention | Überwurfmutter Haltekraft	≥ 100 N
Center contact captivation | Innenleiter Haltekraft	axial: ≥ 8 N
Coupling test torque | Prüfdrehmoment	≤ 0.3 Nm
Coupling torque recommended | Drehmoment empfohlen	0.20 Nm to 0.23 Nm
Environmental data | Umweltdaten	
Temperature range | Temperaturbereich	-55 °C to +155 °C
Dry heat | Trockene Wärme	IEC 60068-2-2
Damp heat | Feuchte Wärme	IEC 60068-2-78
Climatic category | Klimakategorie	IEC 60068-2-1 55/155/21
Vibration | Vibration	IEC 60068-2-6 (10 Hz to 500 Hz, 98 m/s²)
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, Au plating
Center contact | Innenleiter	CuBe, Au plating
Outer contact | Außenleiter	CuZn, Au plating
Crimping ferrule | Crimphülse	Cu, Au plating
Dielectric | Dielektrikum	PTFE

Rosenberger connectors generally fulfill the indicated technical data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and workmanship. Data sheets for particular products can be downloaded on our website or can be provided on request from your Rosenberger sales partner.

Rosenberger-Steckverbinder erfüllen grundsätzlich die hier angegebenen technischen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte der Steckverbinder hiervon abweichen. Datenblätter zu einzelnen Produkten können Sie von unserer Website herunterladen oder auf Anfrage von Ihrem Rosenberger-Ansprechpartner erhalten.