

# 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 connectors 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  $\Omega$

SMC 50  $\Omega$

SMG 50  $\Omega$

SMB 75  $\Omega$

SSMB

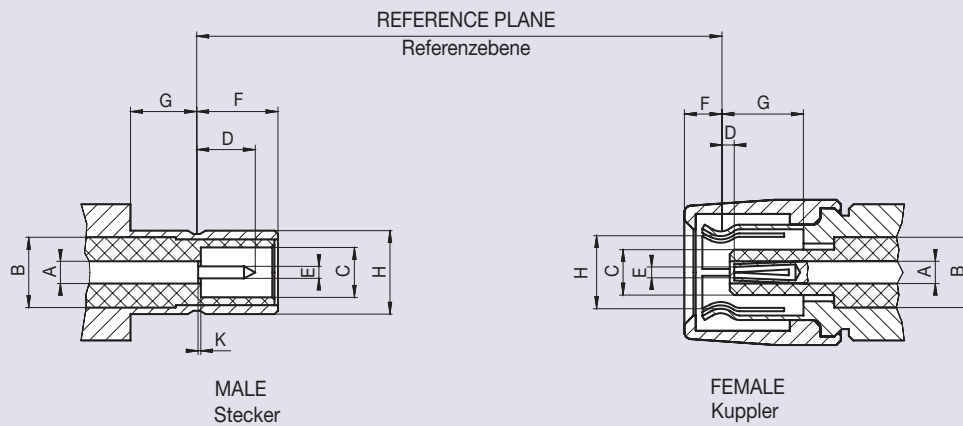
SSMC

SMB, SMC, SMG,  
SSMB, SSMC



## Interface Dimensions SMB 50 Ω

Code 59



	Male   Stecker		Female   Kuppler	
	min.	max.	min.	max.
A		<sup>2)</sup>		<sup>2)</sup>
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		<sup>1)</sup>
F	3.33	3.58	–	1.63
G	1.65	–	3.58	–
H	Ø 3.66	Ø 3.71		<sup>1)</sup>
K	0.00	0.18	–	–

Dimensions in mm

<sup>1)</sup> Resilient, dimension to meet electrical and mechanical requirements

<sup>2)</sup> 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

<b>Applicable standards   Anwendbare Normen</b>	
Interface according to   Interface gemäß	IEC 60169-10, CECC 22130, MIL-PRF-39012
<b>Electrical data   Elektrische Daten</b>	
Impedance   Wellenwiderstand	50 Ω
Frequency range   Frequenzbereich	DC to 4 GHz
Return loss (cable connector straight)   Rückflusdämpfung (Kabelsteckverbinder gerade)	≥ 17 dB (typ.)
Insertion loss   Dämpfung	≤ 0.1 × √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
<b>Mechanical data   Mechanische Daten</b>	
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
<b>Environmental data   Umweltdaten</b>	
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.
<b>Materials   Materialien</b>	
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.

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## 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	

SMB, SMC, SMG,  
SSMB, SSMC

## 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	


# SMB 50 Ω

## 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	

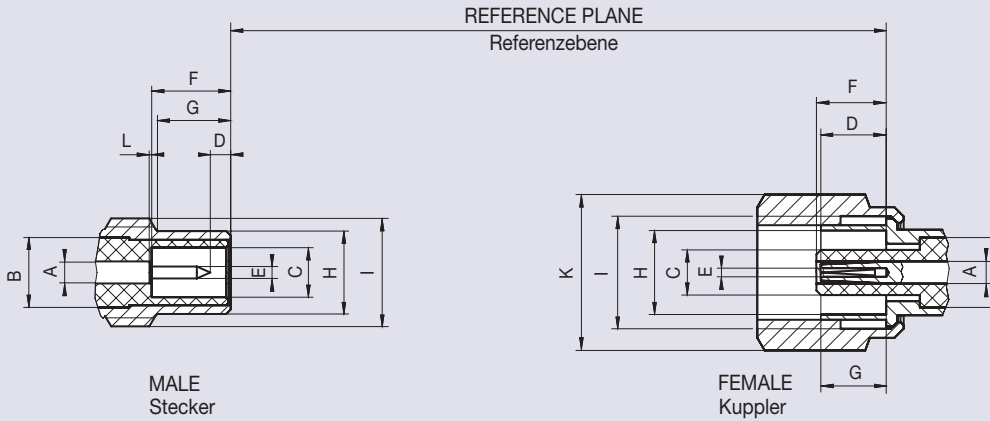
## Termination Jack

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	

# SMC 50 Ω

## Interface Dimensions SMC 50 Ω

Code 39



	Male   Stecker		Female   Kuppler	
	min.	max.	min.	max.
A		<sup>2)</sup>		<sup>2)</sup>
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		<sup>1)</sup>
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	–	–

Dimensions in mm

<sup>1)</sup> Resilient, dimension to meet electrical and mechanical requirements

<sup>2)</sup> 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

<b>Applicable standards   Anwendbare Normen</b>	
Interface according to   Interface gemäß	IEC 60169-9, CECC 22140, MIL-PRF-39012
<b>Electrical data   Elektrische Daten</b>	
Impedance   Wellenwiderstand	50 Ω
Frequency range   Frequenzbereich	DC to 6 GHz
Return loss (cable connector straight)   Rückflusdämpfung (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 × √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
<b>Mechanical data   Mechanische Daten</b>	
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
<b>Environmental data   Umweltdaten</b>	
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.
<b>Materials   Materialien</b>	
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


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## 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	


SMB, SMC, SMG,  
SSMB, SSMC



## 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

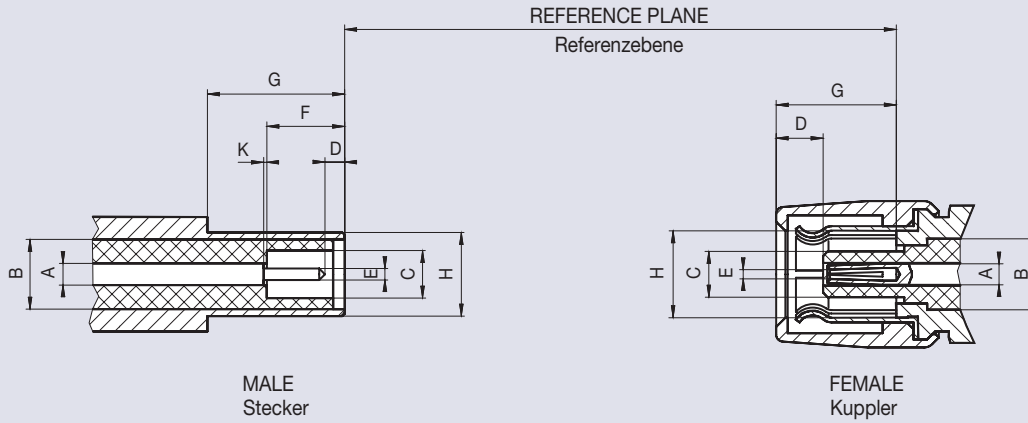
Rosenberger No.	Order No.	Sales Unit	Packaging	Remarks	
39 S 132-S00 L5	101139	1	standard	SMC male - SMA male	
39 S 132-K00 L5	104040	1	standard	SMC male - SMA female	
39 K 132-K00 L5	180220	1	standard	SMC female - SMA female	

SMB, SMC, SMG,  
SSMB, SSMC

# SMG 50 Ω

## Interface Dimensions SMG 50 Ω

Code 49



	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	–	–

Dimensions in mm

<sup>1)</sup> Resilient, dimension to meet electrical and mechanical requirements

<sup>2)</sup> 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)   Rückflusdämpfung (Kabelsteckverbinder gerade)	≥ 17 dB (typ.)
Insertion loss   Dämpfung	≤ 0.1 × √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

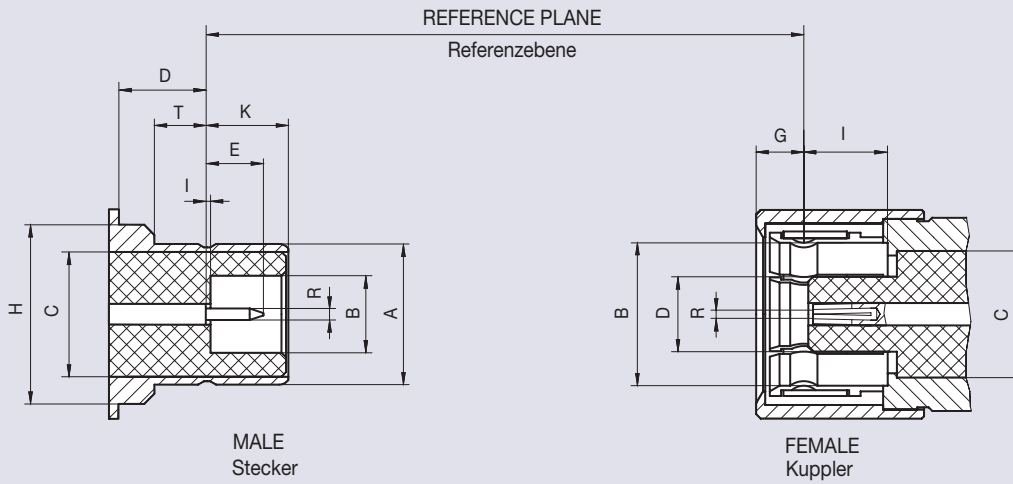
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# SMB 75 Ω

## Interface Dimensions SMB 75 Ω

Code 759



	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	–	–	–

Dimensions in mm

<sup>1)</sup> 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

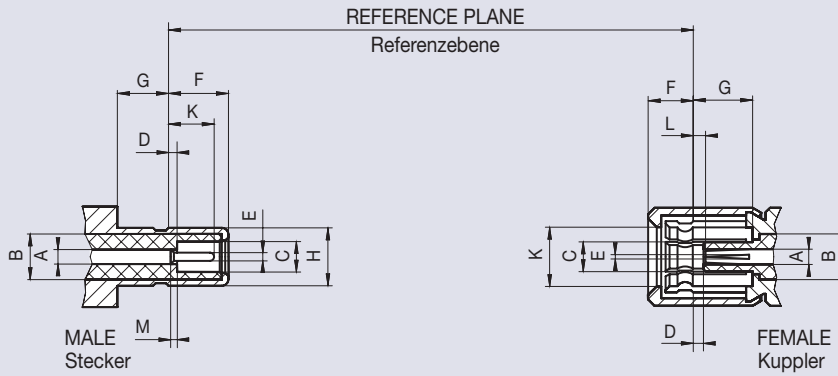
Applicable standards   Anwendbare Normen	
Interface similar to   Interface ähnlich	BT 43 (BS 9210 F0022)
Electrical data   Elektrische Daten	
Impedance   Wellenwiderstand	75 Ω
Frequency range   Frequenzbereich	DC to 4 GHz
Return loss (cable connector straight)   Rückflussdämpfung (Kabelsteckverbinder gerade)	≥ 20 dB (typ.)
Insertion loss   Dämpfung	≤ 0.1 × √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

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## Interface Dimensions SSMB

Code 35



	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	–	–

Dimensions in mm

<sup>1)</sup> Contact diameter refers to 50 Ω

<sup>2)</sup> 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 × √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/s <sup>2</sup> )
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

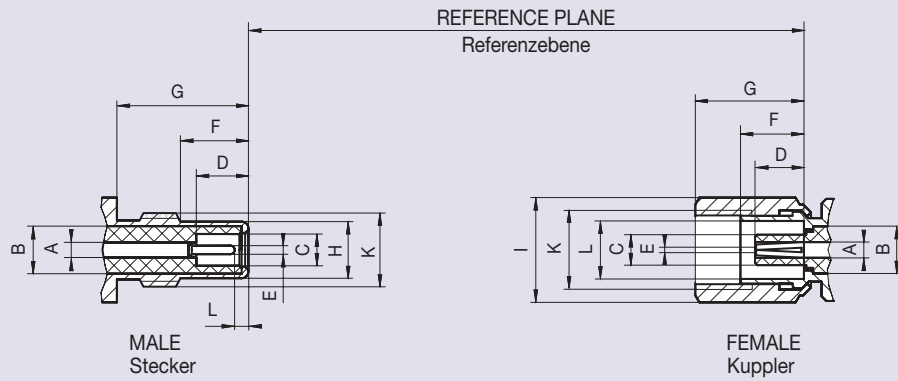
Rosenberger connectors generally fulfill the indicated technical data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and workmanship. Data sheets for particular products can be downloaded on our website or can be provided on request from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



	Male   Stecker		Female   Kuppler	
	min.	max.	min.	max.
A		<sup>1)</sup>		<sup>1)</sup>
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		<sup>2)</sup>
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	–

Dimensions in mm

<sup>1)</sup> Contact diameter refers to 50 Ω

<sup>2)</sup> 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 × √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/s <sup>2</sup> )
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.

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