



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

**SMB coaxial connectors (50  $\Omega$  and 75  $\Omega$ ):**

Snap-on connectors for applications up to 4 GHz, even in tightest locations.

75  $\Omega$ -versions are similar to British Telecom standard BT 43

**SMG coaxial connectors:**

Slide-on connectors for applications up to 4 GHz, mainly for rack systems and PCB applications

**SMC coaxial connectors:**

Screw-on connectors for applications up to 6 GHz

**SSMB coaxial connectors:**

Snap-on connectors, smaller dimensions than SMB, for applications up to 3 GHz

**SSMC coaxial connectors:**

Screw-on connectors, smaller dimensions than SMC, for applications up to 6 GHz

Please note:

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

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

***SMB-Koaxial-Steckverbinder (50  $\Omega$  und 75  $\Omega$ ):***

*Snap-on-Steckverbinder für Anwendungen bis 4 GHz, auch an schwer zugänglichen Stellen.*

*Die 75  $\Omega$ -Ausführungen sind ähnlich dem British Telecom-Standard BT 43*

***SMG-Koaxial-Steckverbinder:***

*Einschub-Steckverbinder für Anwendungen bis 4 GHz, besonders für Einschubtechnik und Leiterplattensysteme*

***SMC-Koaxial-Steckverbinder:***

*Schraub-Steckverbinder für Anwendungen bis 6 GHz*

***SSMB-Koaxial-Steckverbinder:***

*Snap-on-Steckverbinder, kleinere Abmessungen als SMB, für Anwendungen bis 3 GHz*

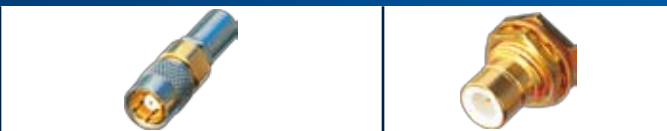
***SSMC-Koaxial-Steckverbinder:***

*Schraub-Steckverbinder, kleinere Abmessungen als SMC, für Anwendungen bis 6 GHz*

*Bitte beachten:*

*Rosenberger definiert die Stecker-Kuppler-Bezeichnung nach der Form des Innenleiters.*

# SMB, SMG, SMC, SSMB, SSMC



SMB  
SMG, SMC  
SSMB, SSMC

## Contents

SMB 50  $\Omega$

SMG

SMC

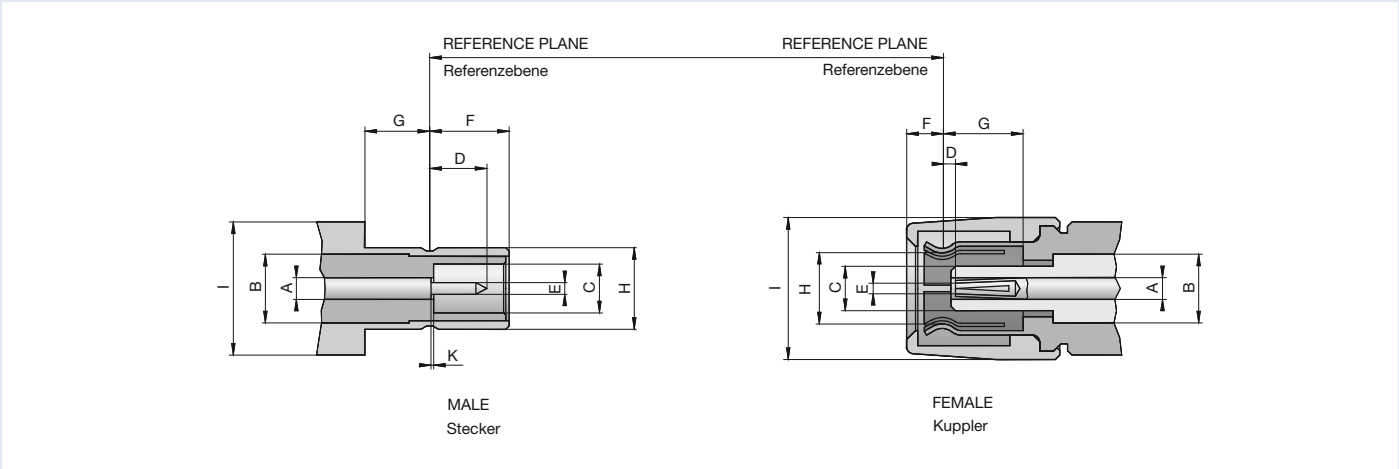
SMB 75  $\Omega$

SSMB

SSMC

Interface Dimensions SMB, 50 Ω

Code 59



SMB, 50 Ω

|                | Male   Stecker |      | Female   Kuppler |      |
|----------------|----------------|------|------------------|------|
| dimension [mm] | min.           | max. | min.             | max. |
| A              | 0.95 nom.      |      | 0.95 nom.        |      |
| B              | 3.05 nom.      |      | 3.05 nom.        |      |
| C              | 2.08           |      |                  | 2.06 |
| D              |                | 2.97 | 0.18             | 0.94 |
| E              | 0.48           | 0.53 |                  | 1)   |
| F              | 3.33           | 3.58 |                  | 1.63 |
| G              | 1.65           |      | 3.58             |      |
| H              | 3.66           | 3.71 |                  | 1)   |
| I              |                | 6.50 |                  | 6.50 |
| K              | 0.00           | 0.18 |                  |      |

1) resilient, dimension to meet electrical and mechanical requirements

Features

Interface according to IEC 60169-10, CECC 22130, US 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

Further connectors available on request

## Technical Data SMB, 50 Ω

## Code 59

| Applicable standards   Anwendbare Normen                                                              |                                         |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Interface according to   <i>Interface gemäß</i>                                                       | IEC 60169-10, CECC 22130, MIL-PRF-39012 |
| Quality tested according to   <i>Qualitätsprüfung gemäß</i>                                           | MIL-STD-202                             |
| Electrical data   Elektrische Daten                                                                   |                                         |
| Impedance   <i>Wellenwiderstand</i>                                                                   | 50 Ω                                    |
| Frequency range   <i>Frequenzbereich</i>                                                              | DC to 4 GHz                             |
| Return loss (cable connector straight)   <i>Rückflussdämpfung (Kabelsteckverbinder gerade)</i>        | ≥ 17 dB (typ.)                          |
| Insertion loss   <i>Dämpfung</i>                                                                      | ≤ 0.1 x √f (GHz) dB                     |
| Insulation resistance   <i>Isolationswiderstand</i>                                                   | ≥ 1 GΩ                                  |
| Center contact resistance   <i>Übergangswiderstand Innenleiter</i>                                    | ≤ 5 mΩ                                  |
| Outer contact resistance   <i>Übergangswiderstand Außenleiter</i>                                     | ≤ 2.5 mΩ                                |
| Test voltage   <i>Prüfspannung</i>                                                                    | 750 V rms                               |
| Working voltage   <i>Betriebsspannung</i>                                                             | 250 V rms                               |
| Contact current   <i>Kontaktstrombelastbarkeit</i>                                                    | ≤ 1.5 A DC                              |
| RF-leakage   <i>Schirmdämpfung</i>                                                                    | ≥ 55 dB @ DC to 1 GHz                   |
| Mechanical data   Mechanische Daten                                                                   |                                         |
| Mating cycles   <i>Steckzyklen</i>                                                                    | ≥ 500                                   |
| Center contact captivation   <i>Innenleiter Haltekraft</i>                                            | axial: ≥ 10 N                           |
| Engagement force   <i>Steckkraft</i>                                                                  | ≤ 63 N                                  |
| Disengagement force   <i>Ziehkraft</i>                                                                | 8 N to 63 N                             |
| Environmental data   Umweltdaten                                                                      |                                         |
| Temperature range   <i>Temperaturbereich</i>                                                          | -55 °C to +155 °C                       |
| Thermal shock   <i>Temperaturzyklen</i>                                                               | MIL-STD-202, Method 107, Condition B    |
| Corrosion resistance   <i>Korrosionsbeständigkeit</i>                                                 | MIL-STD-202, Method 101, Condition B    |
| Moisture resistance   <i>Feuchtigkeitsbeständigkeit</i>                                               | MIL-STD-202, Method 106                 |
| Vibration   <i>Vibration</i>                                                                          | MIL-STD-202, Method 204, Condition B    |
| Max. soldering temperature (PCB connectors)   <i>Max. Löttemperatur (Leiterplattensteckverbinder)</i> | IEC 61760-1, +260 °C for 10 sec.        |
| Materials   Materialien                                                                               |                                         |
| Spring loaded contact parts   <i>Federnde Kontaktteile</i>                                            | CuBe, Au plating                        |
| Center contact   <i>Innenleiter</i>                                                                   | CuZn, Au plating                        |
| Outer contact   <i>Außenleiter</i>                                                                    | CuZn, Au plating                        |
| Crimping ferrule   <i>Crimphülse</i>                                                                  | Soft copper, Au plating                 |
| Dielectric   <i>Dielektrikum</i>                                                                      | PTFE                                    |
| Gasket   <i>Dichtung</i>                                                                              | 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

Panel Plug, solder, round flange

Semi-Rigid Cables

| Ordering Number | Version    | Cable Group | Assembly Instruction | Panel Piercing / PCB Layout | Packing Unit |  |
|-----------------|------------|-------------|----------------------|-----------------------------|--------------|--|
| 59 S 501-271 L5 | rear mount | 71          | 59 K5                | B 22                        | 1            |  |

Straight Jack, solder

Semi-Rigid Cables

| Ordering Number | Cable Group | Assembly Instruction | Packing Unit |  |
|-----------------|-------------|----------------------|--------------|--|
| 59 K 101-271 L5 | 71          | 59 K4                | 100          |  |

Right Angle Jack, solder

Semi-Rigid Cables

| Ordering Number | Cable Group | Assembly Instruction | Packing Unit |  |
|-----------------|-------------|----------------------|--------------|--|
| 59 K 214-271 L5 | 71          | 59 K8                | 100          |  |

## Cable Connectors - Flexible Cables

Straight Plug, crimp

Flexible Cables

| Ordering Number | Remarks                               | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |  |
|-----------------|---------------------------------------|-------------|----------------------|---------------|--------------|--|
| 59 S 102-101 L5 | a = 20.0 mm<br>MIL-PRF 39012: 68-0008 | 01          | 59 G2                | 11 W 150-402  | 1            |  |
| 59 S 102-102 L5 | a = 20.0 mm<br>MIL-PRF 39012: 68-0009 | 02          | 59 G2                | 11 W 150-402  | 100          |  |
| 59 S 102-103 L5 | a = 20.0 mm                           | 03          | 59 G2                | 11 W 150-402  | 100          |  |
| 59 S 102-106 N5 | a = 26.5 mm                           | 06          | 34 A8                | 11 W 150-506  | 100          |  |
| 59 S 102-1M4 L5 | a = 23.0 mm                           | M4          | 59 G16, 59 G16-E     | 11 W 150-504  | 100          |  |

Right Angle Plug, crimp

Flexible Cables

| Ordering Number | Remarks     | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |  |
|-----------------|-------------|-------------|----------------------|---------------|--------------|--|
| 59 S 203-106 A4 | a = 18.4 mm | 06          | 59 C4                | 11 W 150-506  | 100          |  |

## Panel Plug, crimp, hexagonal flange

Flexible Cables

| Ordering Number | Version    | Cable Group | Assembly Instruction | Panel Piercing / PCB Layout | Crimp Inserts | Packing Unit |  |
|-----------------|------------|-------------|----------------------|-----------------------------|---------------|--------------|--|
| 59 S 607-101 L5 | rear mount | 01          | 59 G2                | B 22                        | 11 W 150-402  | 100          |  |
| 59 S 607-102 L5 | rear mount | 02          | 59 G2                | B 22                        | 11 W 150-402  | 1            |  |
| 59 S 607-103 L5 | rear mount | 03          | 59 G2                | B 22                        | 11 W 150-402  | 1            |  |

## Straight Jack, clamp

Flexible Cables

| Ordering Number | Remarks                | Cable Group | Assembly Instruction | Packing Unit |  |
|-----------------|------------------------|-------------|----------------------|--------------|--|
| 59 K 101-001 L5 | MIL-PRF 39012: 67-0003 | 01          | 59 A                 | 1            |  |
| 59 K 101-002 L5 |                        | 02          | 59 A                 | 1            |  |

## Straight Jack, crimp

Flexible Cables

| Ordering Number | Remarks     | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |  |
|-----------------|-------------|-------------|----------------------|---------------|--------------|--|
| 59 K 106-101 L5 | a = 18.0 mm | 01          | 59 G2                | 11 W 150-402  | 100          |  |
| 59 K 106-102 L5 | a = 18.0 mm | 02          | 59 G2                | 11 W 150-402  | 100          |  |
| 59 K 106-103 L5 | a = 18.0 mm | 03          | 59 G2                | 11 W 150-402  | 100          |  |
| 59 K 106-1M4 A4 | a = 24.5 mm | M4          | 59 G17               | 11 W 15A-504  | 1000         |  |
| 59 K 101-1V6 L5 | a = 20.0 mm | V6          | 59 G2                | 11 W 150-404  | 100          |  |
| 59 K 160-103 A4 | Quick Lock  | 03          | 59 G2                | 11 W 150-402  | 100          |  |

## Right Angle Jack, solder-crimp

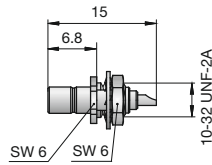
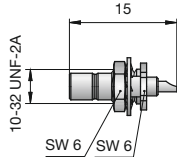
Flexible Cables

| Ordering Number | Remarks     | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |  |
|-----------------|-------------|-------------|----------------------|---------------|--------------|--|
| 59 K 204-301 L5 | a = 13.0 mm | 01          | 59 F                 | 11 W 150-102  | 100          |  |
| 59 K 214-302 L5 | a = 13.8 mm | 02          | 59 F                 | 11 W 150-102  | 100          |  |
| 59 K 214-303 L5 | a = 13.8 mm | 03          | 59 F                 | 11 W 150-103  | 100          |  |
| 59 K 214-3M4 A4 | a = 16.0 mm | M4          | 59 F9                | 11 W 150-504  | 1000         |  |
| 59 K 214-3P7 L5 | a = 16.5 mm | P7          | 59 F                 | 11 W 150-150  | 100          |  |
| 59 K 214-3V6 L5 | a = 16.0 mm | V6          | 59 F                 | 11 W 150-1V6  | 100          |  |
| 59 K 260-302 A4 | Quick Lock  | 02          | 59 F                 | 11 W 150-102  | 100          |  |

## Panel Connectors - Solder End

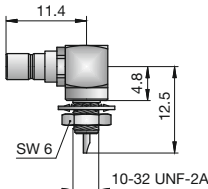
Panel Plug, hexagonal flange

Solder End

| Ordering Number | Version     | Remarks                  | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|-----------------|-------------|--------------------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 59 S 601-200 L5 | front mount | MIL-STD-C-39012: 71-0002 | B 22                        | 100          |  |
| 59 S 602-200 L5 | rear mount  | MIL-STD-C-39012: 71-0001 | B 22                        | 100          |  |

Right Angle Panel Plug

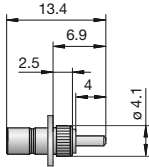
Solder End

| Ordering Number | Version     | Panel Piercing / PCB Layout | Packing Unit |                                                                                      |
|-----------------|-------------|-----------------------------|--------------|--------------------------------------------------------------------------------------|
| 59 S 201-200 L5 | front mount | B 22                        | 1            |  |

## Panel Connectors - Coaxial End

Panel Plug, round flange

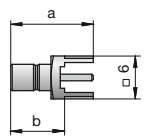
Coaxial End

| Ordering Number | Version  | Panel Piercing / PCB Layout | Packing Unit |                                                                                       |
|-----------------|----------|-----------------------------|--------------|---------------------------------------------------------------------------------------|
| 59 S 108-500 A4 | press-in | B 137                       | 200 blister  |  |

## PCB Connectors - Solder Pin

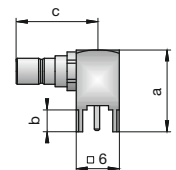
Straight Plug, PCB

Solder Pin

| Ordering Number | Remarks                              | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|-----------------|--------------------------------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 59 S 101-400 L5 | a = 11.5 mm; b = 7.5 mm              | B 30                        | 300          |  |
| 59 S 102-400 L5 | a = 16.5 mm; b = 13.0 mm, round pins | B 30                        | 100          |                                                                                     |

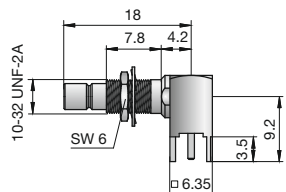
Right Angle Plug, PCB

Solder Pin

| Ordering Number | Remarks                                          | Panel Piercing / PCB Layout | Packing     | Packing Unit                    |                                                                                     |
|-----------------|--------------------------------------------------|-----------------------------|-------------|---------------------------------|-------------------------------------------------------------------------------------|
| 59 S 201-400 L5 | a = 11.4 mm; b = 3.1 mm; c = 11.4 mm, round pins | B 30                        |             | 200                             |  |
| 59 S 225-400 L5 | a = 11.4 mm; b = 3.1 mm; c = 13.0 mm, round pins | B 30                        | VG 72.45000 | 200 blister;<br>450 tape & reel |                                                                                     |
| 59 S 212-400 L5 | a = 12.7 mm; b = 4.0 mm; c = 10.5 mm             | B 30                        |             | 200                             |                                                                                     |

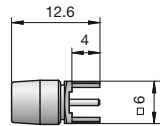
Right Angle Plug, PCB, panel mount

Solder Pin

| Ordering Number | Version    | Panel Piercing / PCB Layout | Packing Unit |                                                                                       |
|-----------------|------------|-----------------------------|--------------|---------------------------------------------------------------------------------------|
| 59 S 206-400 L5 | rear mount | B 30 / 54                   | 200          |  |

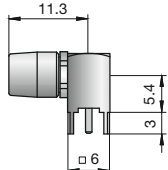
Straight Jack, PCB

Solder Pin

| Ordering Number | Panel Piercing / PCB Layout | Packing Unit |                                                                                       |
|-----------------|-----------------------------|--------------|---------------------------------------------------------------------------------------|
| 59 K 102-400 L5 | B 30                        | 100 blister  |  |

Right Angle Jack, PCB

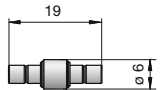
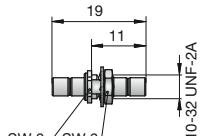
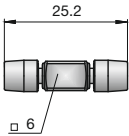
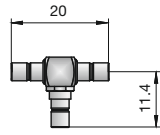
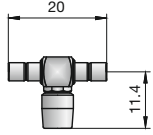
Solder Pin

| Ordering Number | Remarks    | Panel Piercing / PCB Layout | Packing Unit |                                                                                       |
|-----------------|------------|-----------------------------|--------------|---------------------------------------------------------------------------------------|
| 59 K 201-400 L5 | round pins | B 30                        | 100          |  |

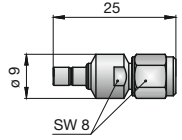
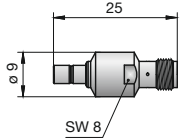
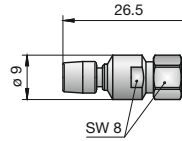
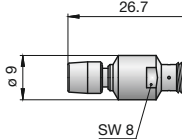
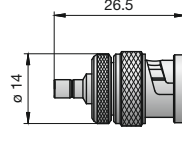
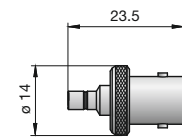
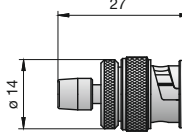
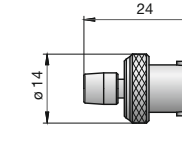


## Adaptors

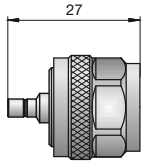
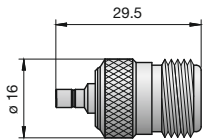
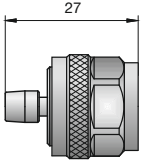
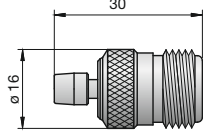
Adaptors (In Series)

| Ordering Number | Version        | Remarks                          | Panel Piercing / PCB Layout | Packing Unit |                                                                                       |
|-----------------|----------------|----------------------------------|-----------------------------|--------------|---------------------------------------------------------------------------------------|
| 59 S 101-S00 L5 | straight       | SMB male - male                  |                             | 1            |    |
| 59 S 601-S00 L5 | straight panel | SMB male - male hexagonal flange | B 22                        | 1            |    |
| 59 K 101-K00 L5 | straight       | SMB female - female              |                             | 1            |    |
| 59 S 301-S00 L5 | T-adaptor      | SMB male - male - male           |                             | 1            |   |
| 59 S 301-K00 L5 | T-adaptor      | SMB male - female - male         |                             | 1            |  |

## Adaptors (Inter Series)

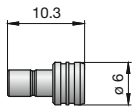
| Ordering Number | Version  | Remarks                 | Packing Unit |                                                                                       |
|-----------------|----------|-------------------------|--------------|---------------------------------------------------------------------------------------|
| 59 S 132-S00 L5 | straight | SMB male - SMA male     | 1            |    |
| 59 S 132-K00 L5 | straight | SMB male - SMA female   | 1            |    |
| 59 K 132-S00 L5 | straight | SMB female - SMA male   | 1            |    |
| 59 K 132-K00 L5 | straight | SMB female - SMA female | 1            |   |
| 59 S 151-S00 L5 | straight | SMB male - BNC male     | 1            |  |
| 59 S 151-K00 L5 | straight | SMB male - BNC female   | 1            |  |
| 59 K 151-S00 L5 | straight | SMB female - BNC male   | 1            |  |
| 59 K 151-K00 L5 | straight | SMB female - BNC female | 1            |  |

SMB  
SMG, SMC  
SSMB, SSMC

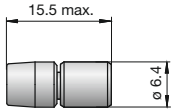
| Ordering Number | Version  | Remarks               | Packing Unit |                                                                                      |
|-----------------|----------|-----------------------|--------------|--------------------------------------------------------------------------------------|
| 59 S 153-S00 L5 | straight | SMB male - N male     | 1            |   |
| 59 S 153-K00 L5 | straight | SMB male - N female   | 1            |   |
| 59 K 153-S00 L5 | straight | SMB female - N male   | 1            |   |
| 59 K 153-K00 L5 | straight | SMB female - N female | 1            |  |

## Terminations

### Termination Plug

| Ordering Number | Remarks                          | Return Loss                                                       | Packing Unit |                                                                                     |
|-----------------|----------------------------------|-------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|
| 59 S 15R-001 E3 | 1 Watt<br>Frequency: DC to 6 GHz | $\geq 23.1$ dB @ DC to 2.5 GHz<br>$\geq 17$ dB @ 2.5 GHz to 6 GHz | 1            |  |

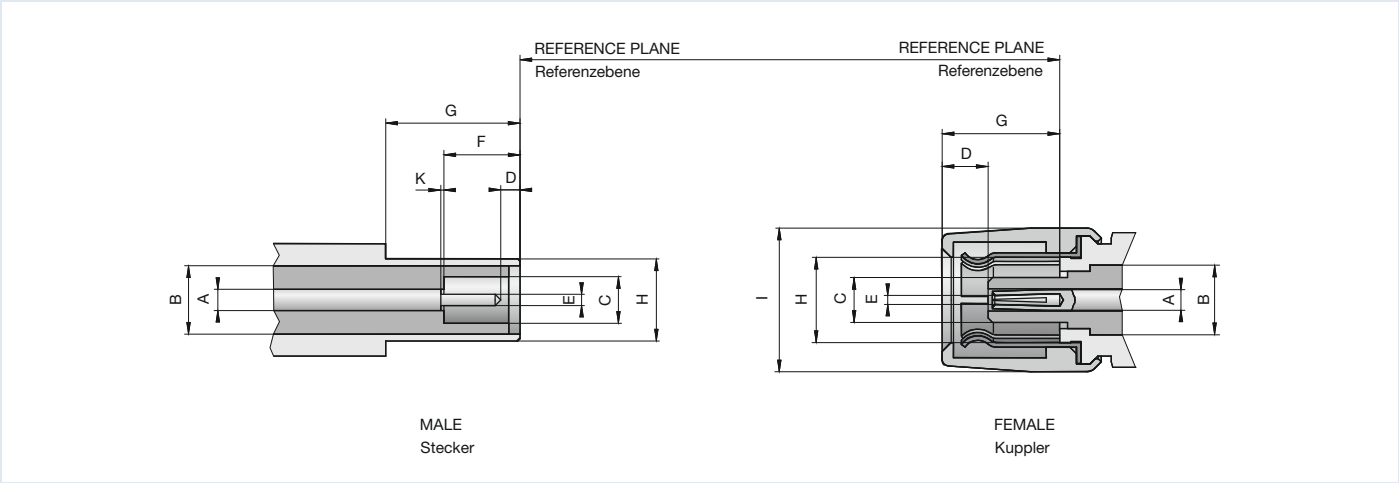
### Termination Jack

| Ordering Number | Remarks                          | Return Loss                                                     | Packing Unit |                                                                                     |
|-----------------|----------------------------------|-----------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|
| 59 K 15R-001 E3 | 1 Watt<br>Frequency: DC to 2 GHz | $\geq 24.9$ dB @ DC to 1 GHz<br>$\geq 20.8$ dB @ 1 GHz to 2 GHz | 1            |  |

SMB  
SMG, SMC  
SSMB, SSMC

Interface Dimensions SMG, 50 Ω

Code 49



SMG, 50 Ω

|                | Male   Stecker |      | Female   Kuppler |      |
|----------------|----------------|------|------------------|------|
| dimension [mm] | min.           | max. | min.             | max. |
| A              | 0.95 nom.      |      | 0.95 nom.        |      |
| B              | 3.05 nom.      |      | 3.05 nom.        |      |
| C              | 2.08           | 2.16 |                  | 2.06 |
| D              | 0.61           |      | 1.81             | 2.36 |
| E              | 0.48           | 0.53 |                  | 1)   |
| F              | 3.40           |      |                  |      |
| G              | 6.00           |      |                  | 6.10 |
| H              | 3.66           | 3.71 |                  | 1)   |
| I              |                | 6.50 |                  | 6.50 |
| K              | 0.00           | 0.18 |                  |      |

1) resilient, dimension to meet electrical and mechanical requirements

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

- Cable connectors
- PCB connectors
- Panel connectors

Further connectors available on request

## Technical Data SMG, 50 Ω

## Code 49

| Applicable standards   Anwendbare Normen                                                              |                                      |
|-------------------------------------------------------------------------------------------------------|--------------------------------------|
| Interface intermatible with   <i>Interface steckkompatibel mit</i>                                    | SMB connectors                       |
| Quality tested according to   <i>Qualitätsprüfung gemäß</i>                                           | MIL-STD-202                          |
| Electrical data   Elektrische Daten                                                                   |                                      |
| Impedance   <i>Wellenwiderstand</i>                                                                   | 50 Ω                                 |
| Frequency range   <i>Frequenzbereich</i>                                                              | DC to 4 GHz                          |
| Return loss (cable connector straight)   <i>Rückflusdämpfung (Kabelsteckverbinder gerade)</i>         | ≥ 17 dB (typ.)                       |
| Insertion loss   <i>Dämpfung</i>                                                                      | ≤ 0.1 x √f (GHz) dB                  |
| Insulation resistance   <i>Isolationswiderstand</i>                                                   | ≥ 1 GΩ                               |
| Center contact resistance   <i>Übergangswiderstand Innenleiter</i>                                    | ≤ 5 mΩ                               |
| Outer contact resistance   <i>Übergangswiderstand Außenleiter</i>                                     | ≤ 2.5 mΩ                             |
| Test voltage   <i>Prüfspannung</i>                                                                    | 750 V rms                            |
| Working voltage   <i>Betriebsspannung</i>                                                             | 250 V rms                            |
| Contact current   <i>Kontaktstrombelastbarkeit</i>                                                    | ≤ 1.5 A DC                           |
| RF-leakage   <i>Schirmdämpfung</i>                                                                    | ≥ 55 dB @ DC to 1 GHz                |
| Mechanical data   Mechanische Daten                                                                   |                                      |
| Mating cycles   <i>Steckzyklen</i>                                                                    | ≥ 500                                |
| Center contact captivation   <i>Innenleiter Haltekraft</i>                                            | axial: ≥ 10 N                        |
| Engagement force   <i>Steckkraft</i>                                                                  | ≤ 8 N                                |
| Disengagement force   <i>Ziehkraft</i>                                                                | ≥ 3 N                                |
| Environmental data   Umweltdaten                                                                      |                                      |
| Temperature range   <i>Temperaturbereich</i>                                                          | -55 °C to +155 °C                    |
| Thermal shock   <i>Temperaturzyklen</i>                                                               | MIL-STD-202, Method 107, Condition B |
| Corrosion resistance   <i>Korrosionsbeständigkeit</i>                                                 | MIL-STD-202, Method 101, Condition B |
| Moisture resistance   <i>Feuchtigkeitsbeständigkeit</i>                                               | MIL-STD-202, Method 106              |
| Vibration   <i>Vibration</i>                                                                          | MIL-STD-202, Method 204, Condition C |
| Max. soldering temperature (PCB connectors)   <i>Max. Löttemperatur (Leiterplattensteckverbinder)</i> | IEC 61760-1, +260 °C for 10 sec.     |
| Materials   Materialien                                                                               |                                      |
| Spring loaded contact parts   <i>Federnde Kontaktteile</i>                                            | CuBe, Au plating                     |
| Center contact   <i>Innenleiter</i>                                                                   | CuZn, Au plating                     |
| Outer contact   <i>Außenleiter</i>                                                                    | CuZn, Au plating                     |
| Crimping ferrule   <i>Crimphülse</i>                                                                  | Soft copper, Au plating              |
| Dielectric   <i>Dielektrikum</i>                                                                      | PTFE                                 |
| Gasket   <i>Dichtung</i>                                                                              | Rubber                               |

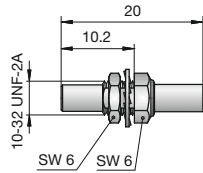
Rosenberger-connectors fulfill in principle the indicated data of the Technical Data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and execution. Specific data sheets for particular products can be provided on request from your Rosenberger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

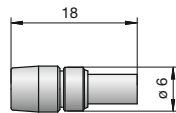
Panel Plug, crimp, hexagonal flange

Flexible Cables

| Ordering Number | Version    | Cable Group | Assembly Instruction | Panel Piercing / PCB Layout | Crimp Inserts | Packing Unit |                                                                                     |
|-----------------|------------|-------------|----------------------|-----------------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 49 S 607-102 L5 | rear mount | 02          | 59 G2                | B 22                        | 11 W 150-402  | 100          |  |

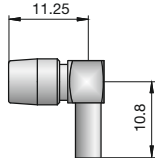
Straight Jack, crimp

Flexible Cables

| Ordering Number | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |                                                                                     |
|-----------------|-------------|----------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 49 K 106-102 L5 | 02          | 59 G2                | 11 W 150-402  | 100          |  |

Right Angle Jack, solder-crimp

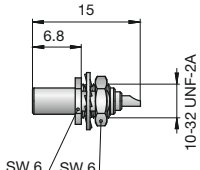
Flexible Cables

| Ordering Number | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |                                                                                       |
|-----------------|-------------|----------------------|---------------|--------------|---------------------------------------------------------------------------------------|
| 49 K 201-302 L5 | 02          | 59 F                 | 11 W 150-102  | 100          |  |

Panel Connectors - Solder End

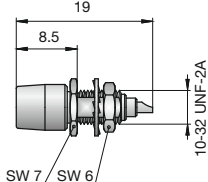
Panel Plug, hexagonal flange

Solder End

| Ordering Number | Version     | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|-----------------|-------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 49 S 601-200 L5 | front mount | B 22                        | 1            |  |

Panel Jack, hexagonal flange

Solder End

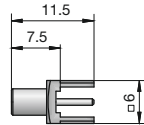
| Ordering Number | Version     | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|-----------------|-------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 49 K 601-200 E3 | front mount | B 22                        | 100          |  |

SMB  
SMG, SMC  
SSMB, SSMC

PCB Connectors - Solder Pin

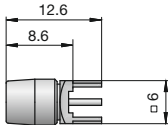
Straight Plug, PCB

Solder Pin

| Ordering Number | Panel Piercing / PCB Layout | Packing Unit |                                                                                       |
|-----------------|-----------------------------|--------------|---------------------------------------------------------------------------------------|
| 49 S 101-400 L5 | B 30                        | 100 blister  |  |

Straight Jack, PCB

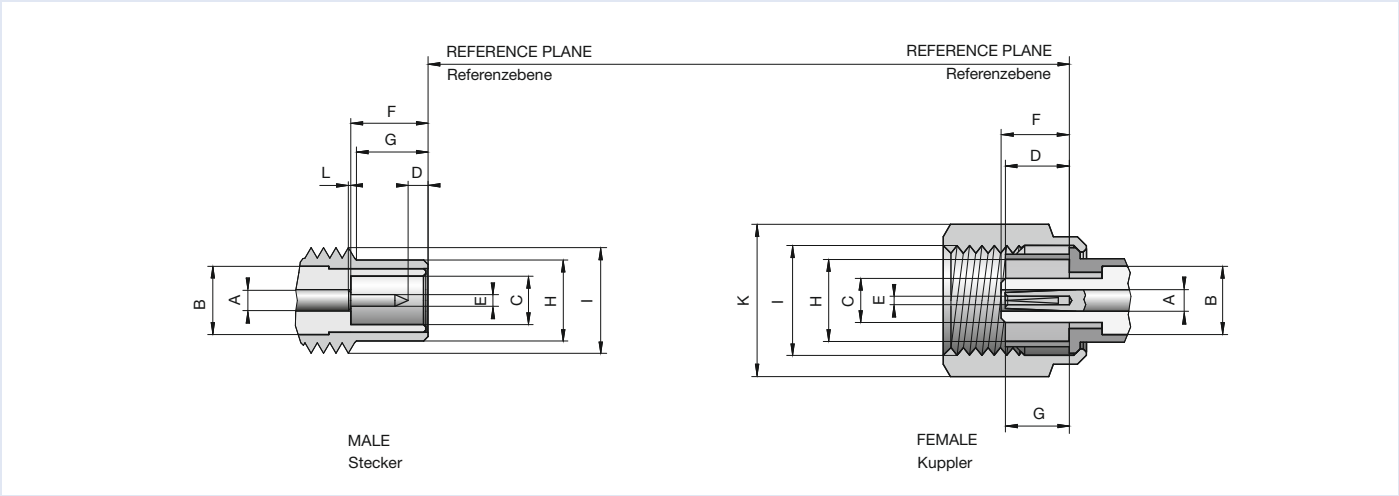
Solder Pin

| Ordering Number | Panel Piercing / PCB Layout | Packing Unit |                                                                                       |
|-----------------|-----------------------------|--------------|---------------------------------------------------------------------------------------|
| 49 K 102-400 L5 | B 30                        | 100 blister  |  |



Interface Dimensions SMC, 50 Ω

Code 39



SMC, 50 Ω

|                | Male   Stecker |      | Female   Kuppler |      |
|----------------|----------------|------|------------------|------|
| dimension [mm] | min.           | max. | min.             | max. |
| A              | 0.95 nom.      |      | 0.95 nom.        |      |
| B              | 3.05 nom.      |      | 3.05 nom.        |      |
| C              | 2.08           |      |                  | 2.06 |
| D              | 0.61           |      | 2.85             | 3.40 |
| E              | 0.48           | 0.53 |                  | 1)   |
| F              | 3.40           |      |                  | 3.40 |
| G              | 3.12           | 3.38 |                  | 3.10 |
| H              |                | 3.71 | 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

Features

Interface according to IEC 60169-9, CECC 22140, US 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

Further connectors available on request

## Technical Data SMC, 50 Ω

## Code 39

| Applicable standards   Anwendbare Normen                                                              |                                                                               |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Interface according to   <i>Interface gemäß</i>                                                       | IEC 60169-9, CECC 22140, MIL-PRF-39012                                        |
| Quality tested according to   <i>Qualitätsprüfung gemäß</i>                                           | MIL-STD-202                                                                   |
| Electrical data   Elektrische Daten                                                                   |                                                                               |
| Impedance   <i>Wellenwiderstand</i>                                                                   | 50 Ω                                                                          |
| Frequency range   <i>Frequenzbereich</i>                                                              | DC to 6 GHz                                                                   |
| Return loss (cable connector straight)   <i>Rückflusdämpfung (Kabelsteckverbinder gerade)</i>         | ≥ 30 dB @ DC to 1 GHz<br>≥ 20 dB @ 1 GHz to 3 GHz<br>≥ 18 dB @ 3 GHz to 6 GHz |
| Insertion loss   <i>Dämpfung</i>                                                                      | ≤ 0.1 x √f (GHz) dB                                                           |
| Insulation resistance   <i>Isolationswiderstand</i>                                                   | ≥ 1 GΩ                                                                        |
| Center contact resistance   <i>Übergangswiderstand Innenleiter</i>                                    | ≤ 5 mΩ                                                                        |
| Outer contact resistance   <i>Übergangswiderstand Außenleiter</i>                                     | ≤ 2.5 mΩ                                                                      |
| Test voltage   <i>Prüfspannung</i>                                                                    | 750 V rms                                                                     |
| Working voltage   <i>Betriebsspannung</i>                                                             | 250 V rms                                                                     |
| Contact current   <i>Kontaktstrombelastbarkeit</i>                                                    | ≤ 1.5 A DC                                                                    |
| RF-leakage   <i>Schirmdämpfung</i>                                                                    | ≥ 90 dB @ DC to 1 GHz                                                         |
| Mechanical data   Mechanische Daten                                                                   |                                                                               |
| Mating cycles   <i>Steckzyklen</i>                                                                    | ≥ 500                                                                         |
| Center contact captivation   <i>Innenleiter Haltekraft</i>                                            | axial: ≥ 10 N                                                                 |
| Coupling test torque   <i>Prüfdrehmoment</i>                                                          | ≤ 0.71 Nm                                                                     |
| Coupling torque recommended   <i>Drehmoment empfohlen</i>                                             | 0.25 Nm to 0.35 Nm                                                            |
| Environmental data   Umweltdaten                                                                      |                                                                               |
| Temperature range   <i>Temperaturbereich</i>                                                          | -55 °C to +155 °C                                                             |
| Thermal shock   <i>Temperaturzyklen</i>                                                               | MIL-STD-202, Method 107, Condition B                                          |
| Corrosion resistance   <i>Korrosionsbeständigkeit</i>                                                 | MIL-STD-202, Method 101, Condition B                                          |
| Moisture resistance   <i>Feuchtigkeitsbeständigkeit</i>                                               | MIL-STD-202, Method 106                                                       |
| Vibration   <i>Vibration</i>                                                                          | MIL-STD-202, Method 204, Condition D                                          |
| Max. soldering temperature (PCB connectors)   <i>Max. Löttemperatur (Leiterplattensteckverbinder)</i> | IEC 61760-1, +260 °C for 10 sec.                                              |
| Materials   Materialien                                                                               |                                                                               |
| Spring loaded contact parts   <i>Federnde Kontaktteile</i>                                            | CuBe, Au plating                                                              |
| Center contact   <i>Innenleiter</i>                                                                   | CuZn, Au plating                                                              |
| Outer contact   <i>Außenleiter</i>                                                                    | CuZn, Au plating                                                              |
| Crimping ferrule   <i>Crimphülse</i>                                                                  | Soft copper, Au plating                                                       |
| Dielectric   <i>Dielektrikum</i>                                                                      | PTFE                                                                          |
| Gasket   <i>Dichtung</i>                                                                              | Rubber                                                                        |

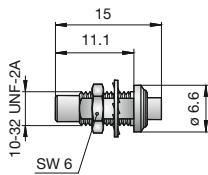
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Rosenberger-Steckverbinder erfüllen grundsätzlich die in den Technischen Daten angegebenen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte von Steckverbindern hiervon abweichen. Spezifische Datenblätter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

**Cable Connectors - Semi-Rigid Cables**

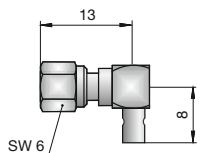
Panel Plug, solder, round flange

Semi-Rigid Cables

| Ordering Number | Version    | Cable Group | Assembly Instruction | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|-----------------|------------|-------------|----------------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 39 S 501-271 L5 | rear mount | 71          | 59 K5                | B 22                        | 100          |  |

Right Angle Jack, solder

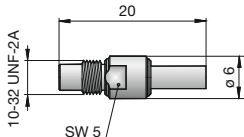
Semi-Rigid Cables

| Ordering Number | Cable Group | Assembly Instruction | Packing Unit |                                                                                     |
|-----------------|-------------|----------------------|--------------|-------------------------------------------------------------------------------------|
| 39 K 20A-271 L5 | 71          | 59 K1                | 100          |  |

## Cable Connectors - Flexible Cables

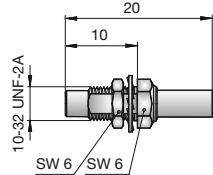
Straight Plug, crimp

Flexible Cables

| Ordering Number | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |                                                                                     |
|-----------------|-------------|----------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 39 S 102-101 L5 | 01          | 59 G2                | 11 W 150-402  | 1            |  |
| 39 S 102-102 L5 | 02          | 59 G2                | 11 W 150-402  | 1            |                                                                                     |
| 39 S 102-103 L5 | 03          | 59 G2                | 11 W 150-402  | 1            |                                                                                     |

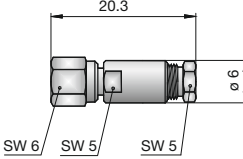
Panel Plug, crimp, hexagonal flange

Flexible Cables

| Ordering Number | Version    | Cable Group | Assembly Instruction | Panel Piercing / PCB Layout | Crimp Inserts | Packing Unit |                                                                                     |
|-----------------|------------|-------------|----------------------|-----------------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 39 S 607-101 L5 | rear mount | 01          | 59 G2                | B 22                        | 11 W 150-402  | 1            |  |
| 39 S 607-102 L5 | rear mount | 02          | 59 G2                | B 22                        | 11 W 150-402  | 1            |                                                                                     |
| 39 S 607-103 L5 | rear mount | 03          | 59 G2                | B 22                        | 11 W 150-402  | 1            |                                                                                     |

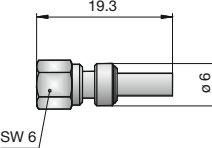
Straight Jack, clamp

Flexible Cables

| Ordering Number | Cable Group | Assembly Instruction | Packing Unit |                                                                                       |
|-----------------|-------------|----------------------|--------------|---------------------------------------------------------------------------------------|
| 39 K 101-002 L5 | 02, 03      | 59 A                 | 1            |  |

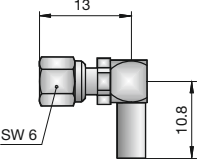
Straight Jack, crimp

Flexible Cables

| Ordering Number | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |                                                                                       |
|-----------------|-------------|----------------------|---------------|--------------|---------------------------------------------------------------------------------------|
| 39 K 102-101 L5 | 01          | 59 G2                | 11 W 150-402  | 1            |  |
| 39 K 102-102 L5 | 02          | 59 G2                | 11 W 150-402  | 1            |                                                                                       |
| 39 K 102-103 L5 | 03          | 59 G2                | 11 W 150-402  | 1            |                                                                                       |

Right Angle Jack, solder-crimp

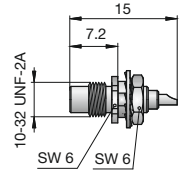
Flexible Cables

| Ordering Number | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |                                                                                       |
|-----------------|-------------|----------------------|---------------|--------------|---------------------------------------------------------------------------------------|
| 39 K 202-301 L5 | 01          | 59 F                 | 11 W 150-101  | 1, 100       |  |
| 39 K 202-302 L5 | 02          | 59 F                 | 11 W 150-102  | 1            |                                                                                       |
| 39 K 202-303 L5 | 03          | 59 F                 | 11 W 150-103  | 1            |                                                                                       |

**Panel Connectors - Solder End**

Panel Plug, hexagonal flange

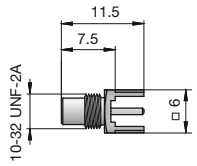
Solder End

| Ordering Number | Version     | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|-----------------|-------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 39 S 601-200 L5 | front mount | B 22                        | 1            |  |

**PCB Connectors - Solder Pin**

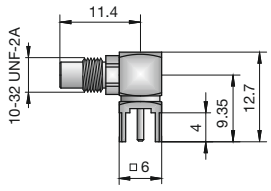
Straight Plug, PCB

Solder Pin

| Ordering Number | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|-----------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 39 S 101-400 L5 | B 30                        | 100          |  |

Right Angle Plug, PCB

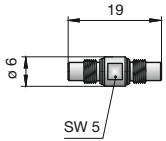
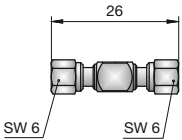
Solder Pin

| Ordering Number | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|-----------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 39 S 201-400 L5 | B 30                        | 200 blister  |  |

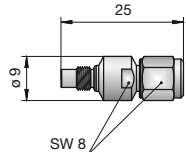
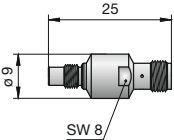
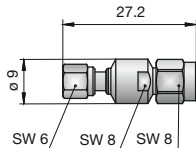
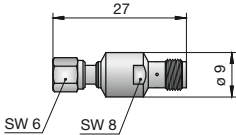
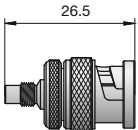
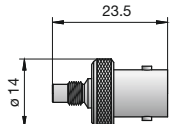
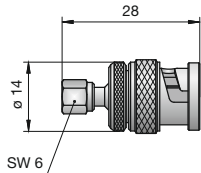
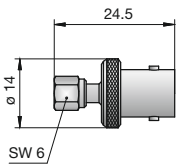
SMB  
SMG, SMC  
SSMB, SSMC

**Adaptors**

Adaptors (In Series)

| Ordering Number | Version  | Remarks             | Packing Unit |                                                                                     |
|-----------------|----------|---------------------|--------------|-------------------------------------------------------------------------------------|
| 39 S 101-S00 L5 | straight | SMC male - male     | 1            |  |
| 39 K 101-K00 L5 | straight | SMC female - female | 1            |  |

## Adaptors (Inter Series)

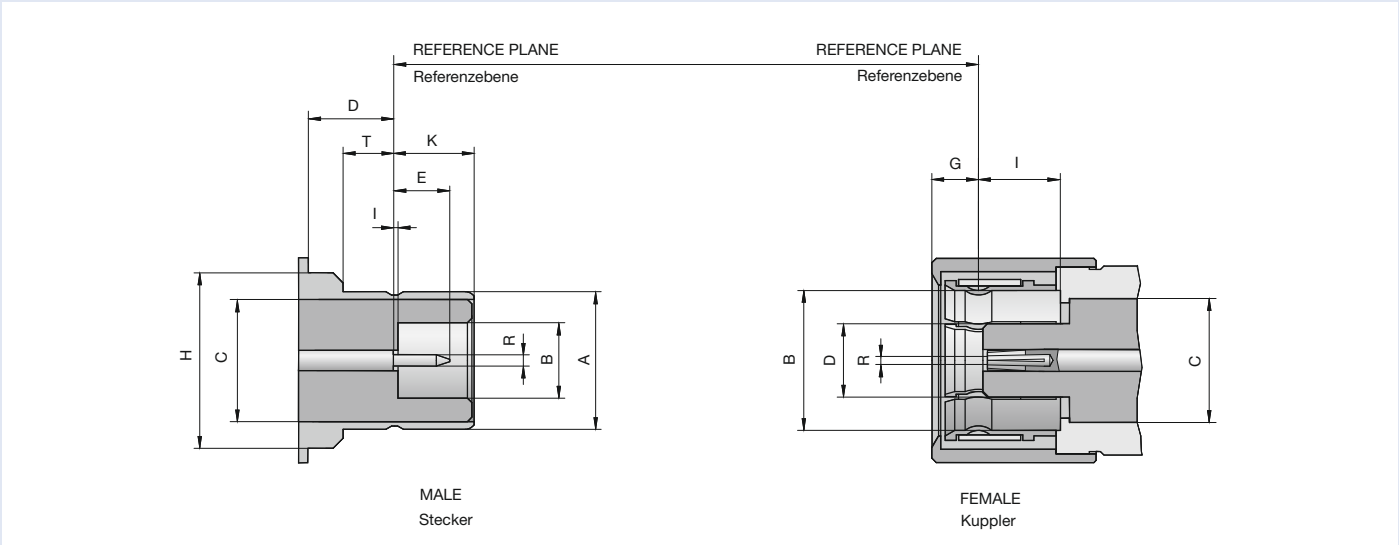
| Ordering Number | Version  | Remarks                 | Packing Unit |                                                                                       |
|-----------------|----------|-------------------------|--------------|---------------------------------------------------------------------------------------|
| 39 S 132-S00 L5 | straight | SMC male - SMA male     | 1            |    |
| 39 S 132-K00 L5 | straight | SMC male - SMA female   | 1            |    |
| 39 K 132-S00 L5 | straight | SMC female - SMA male   | 1            |    |
| 39 K 132-K00 L5 | straight | SMC female - SMA 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            |  |

SMB  
SMG, SMC  
SSMB, SSMC



Interface Dimensions SMB, 75 Ω

Code 759



SMB, 75 Ω

|                | Male   Stecker |      | Female   Kuppler |      |
|----------------|----------------|------|------------------|------|
| dimension [mm] | min.           | max. | min.             | max. |
| A              | 6.20           | 6.25 |                  |      |
| B              | 3.35           |      | 6.25             |      |
| C              | 5.60 nom.      |      | 5.60 nom.        |      |
| D              | 2.36           |      |                  | 3.33 |
| E              |                | 2.97 |                  |      |
| G              |                |      |                  | 2.36 |
| H              |                | 7.94 |                  |      |
| I              |                | 0.18 | 3.58             |      |
| K              | 3.33           | 3.58 |                  |      |
| R              | 0.48           | 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

- Cable connectors
- PCB connectors (solder, press-fit versions)
- Panel connectors
- Adaptors

Further connectors available on request

## Technical Data SMB, 75 Ω

## Code 759

| Applicable standards   Anwendbare Normen                                                       |                                  |
|------------------------------------------------------------------------------------------------|----------------------------------|
| Interface similar to   Interface ähnlich                                                       | BT 43 (BS 9210 F0022)            |
| Quality tested according to   Qualitätsprüfung gemäß                                           | IEC 60068                        |
| Electrical data   Elektrische Daten                                                            |                                  |
| Impedance   Wellenwiderstand                                                                   | 75 Ω                             |
| Frequency range   Frequenzbereich                                                              | DC to 4 GHz                      |
| Return loss (cable connector straight)   Rückflusdämpfung (Kabelsteckverbinder gerade)         | ≥ 20 dB (typ.)                   |
| Insertion loss   Dämpfung                                                                      | ≤ 0.1 x √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   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                                                                  | Soft copper, Ni plating          |
| Dielectric   Dielektrikum                                                                      | PTFE                             |

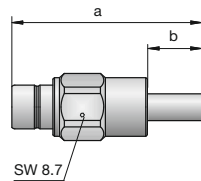
Rosenberger-connectors fulfill in principle the indicated data of the Technical Data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and execution. Specific data sheets for particular products can be provided on request from your Rosenberger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

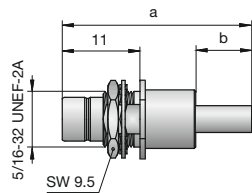
Straight Plug, crimp

Flexible Cables

| Ordering Number  | Remarks               | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |                                                                                     |
|------------------|-----------------------|-------------|----------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 759 S 113-102 L3 | a= 26.3 mm; b= 7.8 mm | 02          | 759 D4               | 11 W 150-402  | 100          |  |

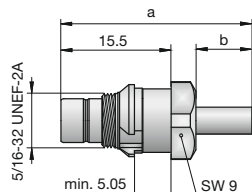
Panel Plug, crimp, hexagonal flange

Flexible Cables

| Ordering Number  | Version    | Remarks                  | Cable Group | Assembly Instruction | Panel Piercing / PCB Layout | Crimp Inserts | Packing Unit |                                                                                     |
|------------------|------------|--------------------------|-------------|----------------------|-----------------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 759 S 611-102 L3 | rear mount | a= 26.3 mm;<br>b= 7.8 mm | 02          | 759 D4               | B 65                        | 11 W 150-402  | 100          |  |

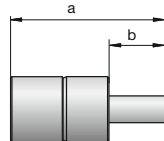
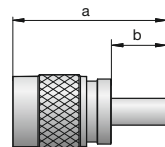
Clip-type Panel Plug, crimp,  
hexagonal flange

Flexible Cables

| Ordering Number  | Version    | Remarks                  | Cable Group | Assembly Instruction | Panel Piercing / PCB Layout | Crimp Inserts | Packing Unit |                                                                                       |
|------------------|------------|--------------------------|-------------|----------------------|-----------------------------|---------------|--------------|---------------------------------------------------------------------------------------|
| 759 S 613-102 L3 | rear mount | a= 26.3 mm;<br>b= 7.8 mm | 02          | 759 D4               | B 66                        | 11 W 150-402  | 100          |  |
| 759 S 613-1V6 L3 | rear mount | a= 27.5 mm;<br>b= 9.0 mm | V6          | 759 D4               | B 66                        | 11 W 150-404  | 100          |                                                                                       |

Straight Jack, crimp

Flexible Cables

| Ordering Number  | Version    | Remarks                   | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |                                                                                       |
|------------------|------------|---------------------------|-------------|----------------------|---------------|--------------|---------------------------------------------------------------------------------------|
| 759 K 103-102 L3 |            | a=22.4 mm;<br>b=7.8 mm    | 02          | 759 D4               | 11 W 150-402  | 100          |  |
| 759 K 103-1V6 L3 |            | a= 23.6 mm;<br>b= 9.0 mm  | V6          | 759 D4               | 11 W 150-404  | 100          |                                                                                       |
| 759 K 153-102 L3 | Quick Lock | a= 21.9 mm;<br>b= 7.8 mm  | 02          | 759 D4               | 11 W 150-402  | 100          |  |
| 759 K 153-1V6 L5 | Quick Lock | a= 23.14 mm;<br>b= 9.0 mm | V6          | 759 D4               | 11 W 150-404  | 100          |                                                                                       |

Right Angle Jack, solder-crimp

Flexible Cables

| Ordering Number  | Remarks                  | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |  |
|------------------|--------------------------|-------------|----------------------|---------------|--------------|--|
| 759 K 202-302 L5 | a = 10.5 mm; b = 15.5 mm | 02          | 759 C                | 11 W 150-102  | 1            |  |

## Panel Connectors - Solder End

Panel Plug, hexagonal flange

Solder End

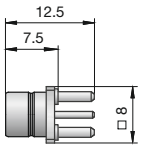
| Ordering Number  | Version    | Panel Piercing / PCB Layout | Packing Unit |  |
|------------------|------------|-----------------------------|--------------|--|
| 759 S 602-200 L5 | rear mount | B 65                        | 100          |  |

SMB  
SMG, SMC  
SSMB, SSMC

**PCB Connectors - Solder Pin**

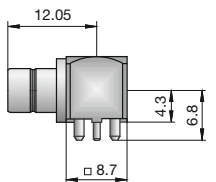
Straight Plug, PCB

Solder Pin

| Ordering Number  | Remarks    | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|------------------|------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 759 S 105-400 L5 | round pins | B 68                        | 100 blister  |  |

Right Angle Plug, PCB

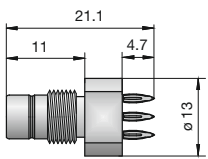
Solder Pin

| Ordering Number  | Remarks    | Panel Piercing / PCB Layout | Packing Unit                  |                                                                                     |
|------------------|------------|-----------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| 759 S 205-400 L3 | round pins | B 68                        | 50 blister<br>250 tape & reel |  |

**PCB Connectors - press-fit**

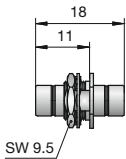
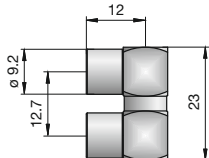
Straight Plug, PCB

Press-fit

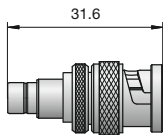
| Ordering Number  | Remarks                   | Panel Piercing / PCB Layout | Packing Unit |                                                                                       |
|------------------|---------------------------|-----------------------------|--------------|---------------------------------------------------------------------------------------|
| 759 S 502-40P L5 | 2 extra screw holes M 2.5 | B 7 / 220                   | 100 blister  |  |

## Adaptors

Adaptors (In Series)

| Ordering Number  | Version  | Remarks                                  | Packing Unit |                                                                                     |
|------------------|----------|------------------------------------------|--------------|-------------------------------------------------------------------------------------|
| 759 S 601-S00 L5 | straight | SMB 75 Ω male - male<br>hexagonal flange | 1            |  |
| 759 K 900-K00 L5 | U-link   | SMB 75 Ω female - female                 | 1            |  |

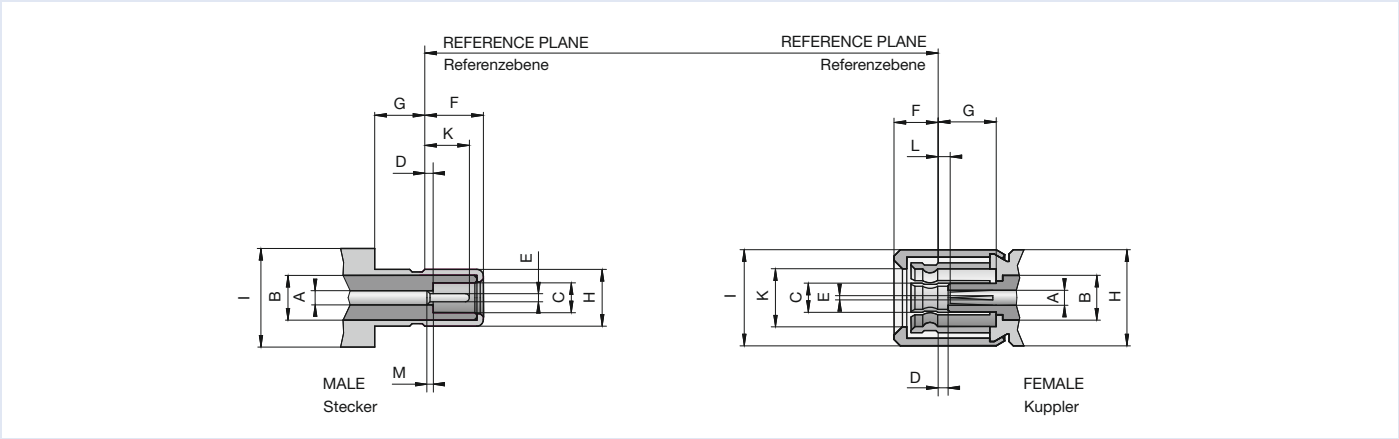
Adaptors (Inter Series)

| Ordering Number  | Version  | Remarks                       | Packing Unit |                                                                                      |
|------------------|----------|-------------------------------|--------------|--------------------------------------------------------------------------------------|
| 759 S 171-S00 L5 | straight | SMB 75 Ω male - BNC 75 Ω male | 1            |  |

SMB  
SMG, SMC  
SSMB, SSMC

Interface Dimensions SSMB

Code 35



SSMB

| dimension [mm] | Male   Stecker |      | Female   Kuppler |      |
|----------------|----------------|------|------------------|------|
|                | min.           | max. | min.             | max. |
| A              |                | 1)   |                  | 1)   |
| B              | 2.11 nom.      |      | 2.11 nom.        |      |
| C              | 1.37           |      |                  | 1.35 |
| D              |                | 0.56 | 0.53             |      |
| E              | 0.35           | 0.38 |                  | 2)   |
| F              |                | 2.77 |                  | 2.26 |
| G              | 2.30           |      | 2.74             |      |
| H              |                | 2.69 | 4.50 nom.        |      |
| I              | 4.50 nom.      |      | 4.50 nom.        |      |
| K              |                | 2.44 | 2.74             |      |
| L              |                |      | 0.53             | 0.89 |
| M              | 0.00           | 0.13 |                  |      |

1) contact diameters refer 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

Cable connectors  
PCB connectors  
Panel connectors

Further connectors available on request

## Technical Data SSMB

## Code 35

| Applicable standards   Anwendbare Normen                                                       |                                                       |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Interface according to   Interface gemäß                                                       | EN 122170, IEC 60169-19                               |
| Quality tested according to   Qualitätsprüfung gemäß                                           | IEC 60068                                             |
| Electrical data   Elektrische Daten                                                            |                                                       |
| Impedance   Wellenwiderstand                                                                   | 50 $\Omega$                                           |
| Frequency range   Frequenzbereich                                                              | DC to 3 GHz                                           |
| Return loss (cable connector straight)   Rückflusdämpfung (Kabelsteckverbinder gerade)         | $\geq 17$ dB (typ.)                                   |
| Insertion loss   Dämpfung                                                                      | $\leq 0.1 \times \sqrt{f \text{ (GHz)}}$ dB           |
| Insulation resistance   Isolationswiderstand                                                   | $\geq 1 \text{ G}\Omega$                              |
| Center contact resistance   Übergangswiderstand Innenleiter                                    | $\leq 5 \text{ m}\Omega$                              |
| Outer contact resistance   Übergangswiderstand Außenleiter                                     | $\leq 2.5 \text{ m}\Omega$                            |
| Test voltage   Prüfspannung                                                                    | 500 V rms                                             |
| Working voltage   Betriebsspannung                                                             | 175 V rms                                             |
| RF-leakage   Schirmdämpfung                                                                    | $\geq 40$ dB @ DC to 1 GHz                            |
| Mechanical data   Mechanische Daten                                                            |                                                       |
| Mating cycles   Steckzyklen                                                                    | $\geq 500$                                            |
| Center contact captivation   Innenleiter Haltekraft                                            | axial: $\geq 8$ 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                                                                  | Soft copper, Au plating                               |
| Dielectric   Dielektrikum                                                                      | PTFE                                                  |

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.

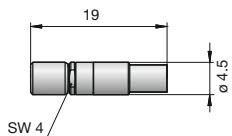
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## Cable Connectors - Flexible Cables

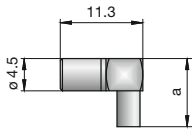
Straight Jack, solder-crimp

Flexible Cables

| Ordering Number | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |                                                                                     |
|-----------------|-------------|----------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 35 K 102-301 L5 | 01          | 35 B                 | 11 W 150-101  | 1            |  |
| 35 K 102-302 L5 | 02          | 35 B                 | 11 W 150-102  | 1            |                                                                                     |

Right Angle Jack, solder-crimp

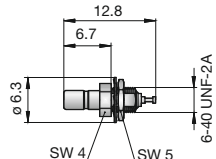
Flexible Cables

| Ordering Number | Remarks     | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |                                                                                     |
|-----------------|-------------|-------------|----------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 35 K 203-301 L5 | a = 9.3 mm  | 01          | 35 C                 | 11 W 150-101  | 100          |  |
| 35 K 203-302 L5 | a = 12.3 mm | 02          | 35 C1                | 11 W 150-102  | 100          |                                                                                     |

## Panel Connectors - Solder End

Panel Plug, hexagonal flange

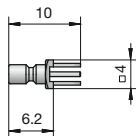
Solder End

| Ordering Number | Version     | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|-----------------|-------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 35 S 601-200 L5 | front mount | B 23                        | 1            |  |

## PCB Connectors - Solder Pin

Straight Plug, PCB

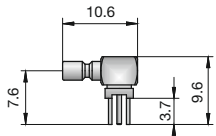
Solder Pin

| Ordering Number | Remarks    | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|-----------------|------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 35 S 101-400 L5 | round pins | B 35                        | 200 blister  |  |

SMB  
SMG, SMC  
SSMB, SSMC

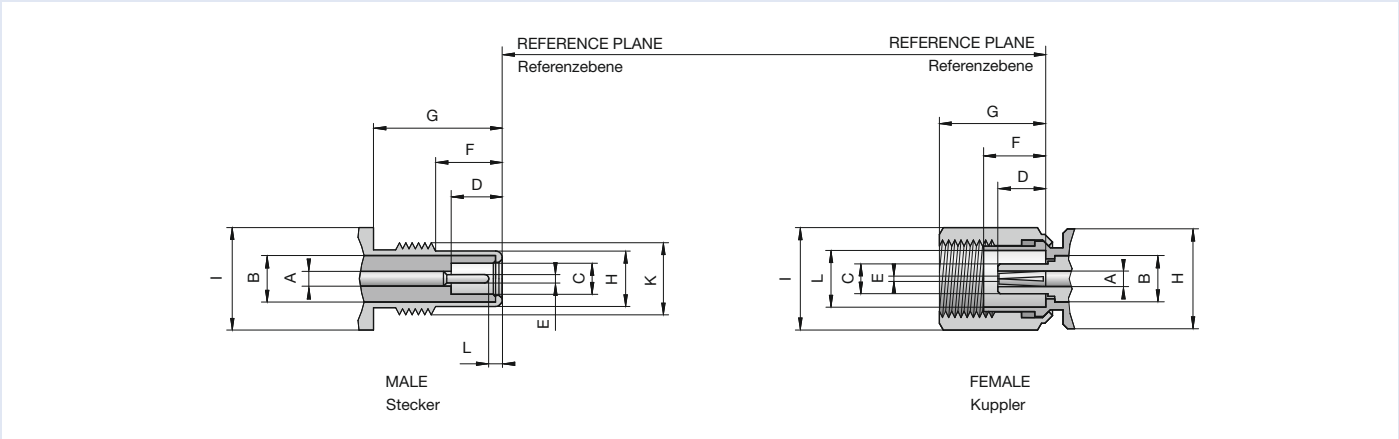
Right Angle Plug, PCB

Solder Pin

| Ordering Number | Remarks    | Panel Piercing / PCB Layout | Packing Unit |                                                                                       |
|-----------------|------------|-----------------------------|--------------|---------------------------------------------------------------------------------------|
| 35 S 201-400 L5 | round pins | B 35                        | 200 blister  |  |

Interface Dimensions SSMC

Code 38



SSMC

| dimension [mm] | Male   Stecker |      | Female   Kuppler |      |
|----------------|----------------|------|------------------|------|
|                | min.           | max. | min.             | max. |
| A              |                | 1)   |                  | 1)   |
| B              | 2.11 nom.      |      | 2.11 nom.        |      |
| C              | 1.37           |      |                  | 1.35 |
| D              | 2.29           |      |                  | 2.29 |
| E              | 0.35           | 0.38 |                  | 2)   |
| F              | 2.94           |      |                  | 2.84 |
| G              | 5.71           |      |                  | 5.70 |
| H              |                | 2.54 | 4.50 nom         |      |
| I              | 4.50 nom       |      | hex 4            |      |
| K              | 6-40 UNF-2A    |      | 6-40 UNF-2B      |      |
| L              |                | 0.84 | 2.59             |      |

1) contact diameters refer 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

Cable connectors  
Panel connectors

Further connectors available on request

## Technical Data SSMC

## Code 38

| Applicable standards   Anwendbare Normen                                                       |                                                       |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Interface according to   Interface gemäß                                                       | EN 122180, IEC 60169-20                               |
| Quality tested according to   Qualitätsprüfung gemäß                                           | IEC 60068                                             |
| Electrical data   Elektrische Daten                                                            |                                                       |
| Impedance   Wellenwiderstand                                                                   | 50 $\Omega$                                           |
| Frequency range   Frequenzbereich                                                              | DC to 6 GHz                                           |
| Return loss (cable connector straight)   Rückflusdämpfung (Kabelsteckverbinder gerade)         | $\geq 16$ dB (typ.)                                   |
| Insertion loss   Dämpfung                                                                      | $\leq 0.1 \times \sqrt{f \text{ (GHz)}}$ dB           |
| Insulation resistance   Isolationswiderstand                                                   | $\geq 1 \text{ G}\Omega$                              |
| Center contact resistance   Übergangswiderstand Innenleiter                                    | $\leq 5 \text{ m}\Omega$                              |
| Outer contact resistance   Übergangswiderstand Außenleiter                                     | $\leq 2.5 \text{ m}\Omega$                            |
| Test voltage   Prüfspannung                                                                    | 500 V rms                                             |
| Working voltage   Betriebsspannung                                                             | 175 V rms                                             |
| RF-leakage   Schirmdämpfung                                                                    | $\geq 70$ dB @ DC to 1 GHz                            |
| Mechanical data   Mechanische Daten                                                            |                                                       |
| Mating cycles   Steckzyklen                                                                    | $\geq 500$                                            |
| Coupling nut retention   Überwurfmutter Haltekraft                                             | $\geq 100$ N                                          |
| Center contact captivation   Innenleiter Haltekraft                                            | axial: $\geq 8$ N                                     |
| Coupling test torque   Prüfdrehmoment                                                          | $\leq 0.3$ 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                                                                  | Soft copper, Au plating                               |
| Dielectric   Dielektrikum                                                                      | PTFE                                                  |

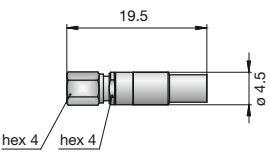
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## Cable Connectors - Flexible Cables

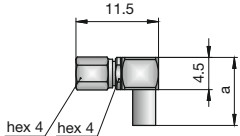
Straight Jack, solder-crimp

Flexible Cables

| Ordering Number | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |                                                                                     |
|-----------------|-------------|----------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 38 K 102-301 L5 | 01          | 35 B                 | 11 W 150-101  | 100          |  |

Right Angle Jack, solder-crimp

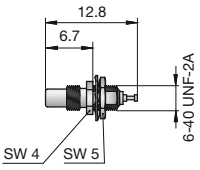
Flexible Cables

| Ordering Number | Remarks     | Cable Group | Assembly Instruction | Crimp Inserts | Packing Unit |                                                                                     |
|-----------------|-------------|-------------|----------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 38 K 202-301 L5 | a = 9.3 mm  | 01          | 35 C                 | 11 W 150-101  | 100          |  |
| 38 K 202-302 L5 | a = 12.3 mm | 02          | 35 C1                | 11 W 150-102  | 1            |                                                                                     |

Panel Connectors - Solder End

Panel Plug, hexagonal flange

Solder End

| Ordering Number | Version     | Panel Piercing / PCB Layout | Packing Unit |                                                                                     |
|-----------------|-------------|-----------------------------|--------------|-------------------------------------------------------------------------------------|
| 38 S 601-200 L5 | front mount | B 23                        | 1            |  |

SMB  
SMG, SMC  
SSMB, SSMC