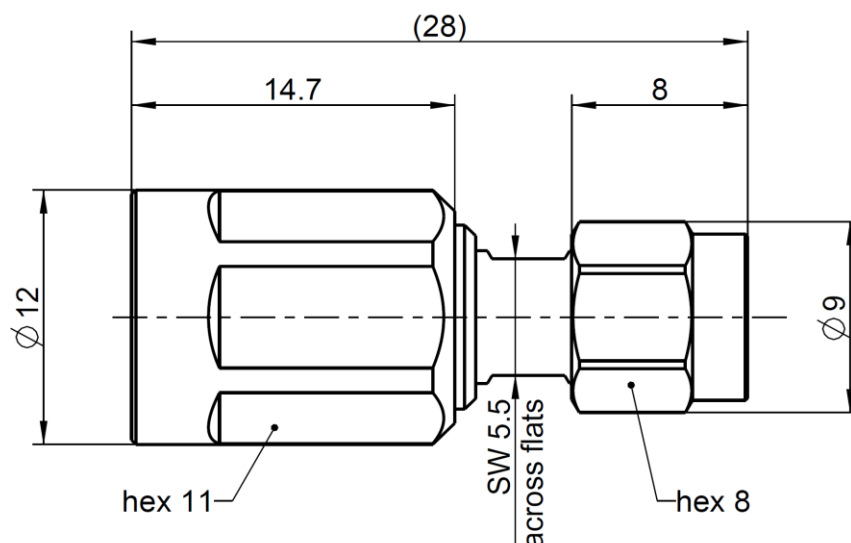




All dimensions are in mm; tolerances according to ISO 2768 m-H

### Interface

According to NEX10 side: NEX10™  
SMA side: IEC 60169-15, EN 122110, MIL-STD-348A, Fig. 310

### Documents

N/A

### Material and plating

#### Connector parts

Center contact  
Outer contact  
Outer contact  
Body  
Dielectric  
Gasket

NEX10 side:  
SMA side:

#### Material

Brass  
Spring bronze  
Brass  
Brass  
PTFE  
Silicone

#### Plating

Silver, 3-6  $\mu$ m  
Silver, 3-6  $\mu$ m  
White bronze(e.g. Optalloy®)  
White bronze(e.g. Optalloy®)

# Technical Data Sheet

# Rosenberger

SMA  
NEX10

Adaptor  
NEX10 Plug – SMA Plug

**32S189-S00N1**

## Electrical data

|                                                |                                       |
|------------------------------------------------|---------------------------------------|
| Impedance                                      | 50 Ω                                  |
| Frequency                                      | DC to 12 GHz                          |
| Return loss                                    | ≥ 30 dB @ DC to 8 GHz                 |
| Insertion loss                                 | ≤ 0.05 x $\sqrt{f \text{ [GHz]}}$ dB  |
| Insulation resistance                          | ≥ 5 GΩ                                |
| Center contact resistance                      | ≤ 2.0 mΩ, NEX10 side ≤ 3 mΩ, SMA side |
| Outer contact resistance                       | ≤ 1.0 mΩ, NEX10 side ≤ 2 mΩ, SMA side |
| Working voltage                                | 500 V rms                             |
| RF-leakage                                     | ≥ 100 dB @ DC to 1 GHz                |
| Power handling (at 20 °C, sea level, VSWR 1.0) | ≤ 200 W @ 2 GHz                       |

## Mechanical data

|                    |            |          |
|--------------------|------------|----------|
|                    | NEX10 side | SMA side |
| Mating cycles      | ≥ 100      | ≥ 100    |
| Recommended torque | 1.5 Nm     | 0.5 Nm   |

## Environmental data

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Temperature range                 | -55 °C to +125 °C operating temperature |
| Thermal shock                     | IEC 61169-1 9.4.4                       |
| Vibration                         | IEC 61169-1 9.3.3 and IEC 60068-2-64    |
| Shock                             | IEC 61169-1 9.3.14                      |
| Degree of protection (mated pair) | IEC 60529, IP68 24h / 1m                |
| RoHS                              | compliant                               |

## Tooling

N/A

## Suitable cables

N/A

## Weight

Weight 9.3 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



| Draft                                                                                                                                                  | Date     | Approved    | Date     | Rev.                                                                                         | Engineering change number | Name           | Date          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|----------|----------------------------------------------------------------------------------------------|---------------------------|----------------|---------------|
| F. Fraunhofer                                                                                                                                          | 12.01.17 | Chr. Janßen | 18.11.20 | b00                                                                                          | 20-1927                   | S. Huber-Siegl | 18.11.20      |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a> |          |             |          | Tel. : +49 8684 18-0<br>Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |                           |                | Page<br>2 / 2 |

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