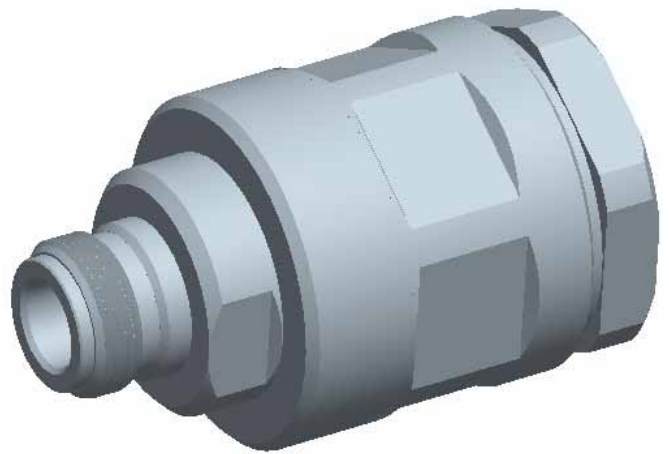
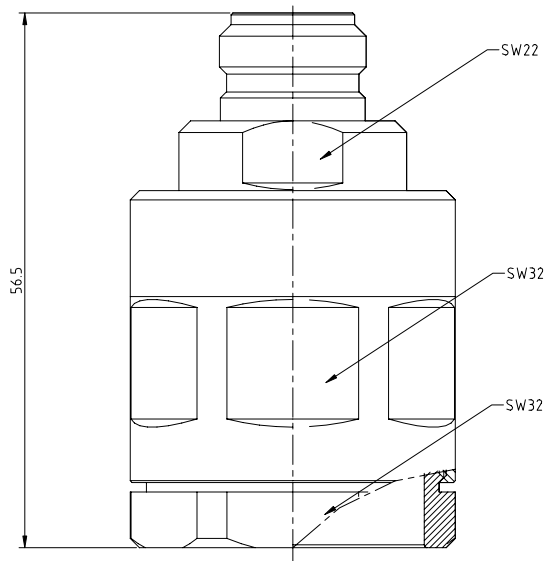


N 50Ω  
STRAIGHT JACK  
(7/8"Normal & Low loss)

53K1C7-CX5N1



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

This product used for mobile network and telecommunication equipment

#### Interface

According to

IEC 60169-16, MIL-PRF-39012, CECC22210

#### Documents

Assembly instruction

In package

#### Material and plating

##### Connector parts

Center contact  
Outer contact  
Body  
Dielectric  
Gasket

##### Material

Spring bronze  
Brass  
Brass  
TPX  
Silicone

##### Plating

Silver, 3-6μm  
Flash white bronze over silver(e.g. Optargen®)  
Flash white bronze over silver(e.g. Optargen®)

#### Electrical data

|                                                |                                               |
|------------------------------------------------|-----------------------------------------------|
| Impedance                                      | 50 Ω                                          |
| Frequency                                      | Dc to 11 GHz                                  |
| Return loss                                    | ≤ -37dB, DC to 1 GHz<br>≤ -35dB, 1 to 2.7 GHz |
| Insertion loss                                 | ≤ 0.1 dB                                      |
| Insulation resistance                          | ≥ 5 x10 <sup>3</sup> MΩ                       |
| Center contact resistance                      | ≤ 1mΩ                                         |
| Outer contact resistance                       | ≤ 0.25mΩ                                      |
| Test voltage                                   | 2500 V rms                                    |
| Working voltage                                | 1400 V rms                                    |
| Power handling (at 20 °C, sea level, VSWR 1.0) | 1000 W @ 1 GHz<br>700 W @ 2 GHz               |
| Intermodulation (3 <sup>rd</sup> order)        | ≤ -117dBm @ 2 x 20 W                          |

# TECHNICAL DATA SHEET

**Rosenberger**  
Rosenberger Site Solutions, LLC

N 50Ω STRAIGHT JACK  
(7/8"Normal & Low loss)

53K1C7-CX5N1

- Limitations are possible due to the used cable type -

## Mechanical data

|                                   |               |
|-----------------------------------|---------------|
| Mating cycles                     | min. 500      |
| Center contact captivation: axial | ≥ 28 N        |
| radial                            | ≥ 3 Ncm       |
| Coupling torque (recommended)     | 0.7 to 1.1 Nm |
| Proof torque                      | max. 1.7 Nm   |

## Environmental data

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Temperature range                 | -45°C to +85°C                  |
| Thermal shock                     | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion                         | MIL-STD-202, Meth. 101, Cond. B |
| Vibration                         | MIL-STD-202, Meth. 204, Cond. B |
| Shock                             | MIL-STD-202, Meth. 213, Cond. I |
| Moisture resistance               | MIL-STD-202, Meth. 106          |
| Degree of protection (mated pair) | IEC 60529, IP68                 |

## Tooling

60W007-C05 (1C7)

## Suitable cables

SL 7/8"R (Normal cable recommend)  
SL 7/8"L (Low loss cable recommend)

## Packing

|          |              |
|----------|--------------|
| Standard | 1 Pcs in box |
| Weight   | 134 pcs      |

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.

| Draft                                                                                                                                     | Checker | Approved | Date | Rev.                                                                                                                                      | Engineering change number | Name  | Date           |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------|----------------|
| Roger                                                                                                                                     |         |          |      | a                                                                                                                                         | -----                     | Roger | 18.04.2007     |
| Corporate Headquarters<br>Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O. Box 1260 D-84526 Tittmoning Germany<br>Tel. +49 8684 18-0 |         |          |      | Rosenberger Site Solutions, LLC<br>P.O. Box 4268, Lake Charles, LA 70606<br>Ph.337.598.5250 Fax: 337.598.5290 rlss@rlss.us<br>www.rlss.us |                           |       | Page<br>2 of 2 |