

Rosenberger

High Performance Coaxial Jumpers
The Link for a better Network Quality



Company Profile

Rosenberger is one of the worldwide leading suppliers of controlled impedance and optical connectivity solutions, system components for mobile communications networks, data centres and test & measurement as well as high voltage contact systems.

The Rosenberger group operates manufacturing and assembly locations in over 10 countries as well as a global sales network.

Rosenberger Site Solutions

The Rosenberger Site Solutions Group designs, manufactures and provides solutions for the wireless infrastructure market. Our products and systems offer innovative and leading-edge designs with focus on high performance and quality.

Having an efficient network implementation in mind, we focus on total site kitting, logistics and delivery time leading to reduced cost of ownership.

Globally present, the Rosenberger Site Solutions Group offers extensive local support making Rosenberger Site Solutions a partner instead of just a supplier.

Quality and Environment

Rosenberger's quality philosophy is not just to optimise components and products, but to continuously improve and optimise all processes to ensure customer satisfaction: From product development, planning, procurement, production, sales, logistics and services to environmental policy. In summary, to offer maximum benefits to our customers all over the world.

Our quality responsibility includes being proactive in protecting our environment and natural resources. We endeavour to avoid any environmental pollution, even beyond the requirements of legal regulations whenever possible.



RF Jumper Cables – Superior Performance up to 6 GHz

Rosenberger coaxial jumpers are designed using the many years of experience gained by Rosenberger engineers in this field.

Rosenberger's unique knowledge of designing and manufacturing world-leading PIM testing equipment is directly reflected in the jumpers.

Rosenberger jumpers have the industry-best PIM levels $-117 \text{ dBm} / -160 \text{ dBc} @ 2 \times 20 \text{ W}$ (typ. $-120 \text{ dBm} / -163 \text{ dBc} @ 2 \times 20 \text{ W}$). These excellent levels are guaranteed for every assembly that leaves the Rosenberger production facility.

Features

- High quality: every assembly is 100 % PIM and VSWR tested and serialized
- Best in class PIM and RL values
- Superior performance up to 6 GHz
- Measurement protocol available for each jumper on webportal: jumper.rosenberger.com
- All commonly used connector types available

Benefits

- More throughput
- Less dropped calls
- Supporting any technology
- WiFi-Ready

Jumper Cable Configurator

Configure your individual jumper cable online
www.rosenberger.com/iso/#jumperconf



Return Loss

| | |
|---------------|---------|
| DC - 1 GHz | ≥ 32 dB |
| 1 - 2.2 GHz | ≥ 30 dB |
| 2.2 - 2.7 GHz | ≥ 28 dB |
| 2.7 - 6 GHz | ≥ 23 dB |

Insertion Loss typ. (1/2"R – flexible)

| | |
|---------------|-------------------------|
| DC - 1 GHz | ≤ 0.07 dB/m + 0.01 db |
| 1 - 2.2 GHz | ≤ 0.11 dB/m + 0.015 db |
| 2.2 - 2.7 GHz | ≤ 0.125 dB/m + 0.016 db |
| 2.7 - 6 GHz | ≤ 0.22 dB/m + 0.01 db |

Insertion Loss typ. (1/2"S – super flexible)

| | |
|---------------|-------------------------|
| DC - 1 GHz | ≤ 0.10 dB/m + 0.01 db |
| 1 - 2.2 GHz | ≤ 0.168 dB/m + 0.015 db |
| 2.2 - 2.7 GHz | ≤ 0.19 dB/m + 0.016 db |
| 2.7 - 6 GHz | ≤ 0.31 dB/m + 0.01 db |

4.3-10-Connectors:

Screw



Handscrew



Push-Pull



N-Connector



7-16 Connector

Traceability – Online Measurement Reports

Every single Coax Jumper gets tested for its Return Loss and PIM values after its assembly. By entering the serial number on our web-portal our customers are able to download the measurement reports of their cables.

Online Measurement Reports

Download VSWR and PIM measurements
jumper.rosenberger.com



For a more convenient verification of the performance the measurement report can easily be downloaded to mobile devices by scanning the DataMatrix code on the packaging.

The Rosenberger Jumper Cables with Guaranteed PIM Values

Passive Intermodulation (PIM) is a nonlinear response of two or more signals of different frequencies mixing together in a passive device, e.g. antenna, cable, connector or splitter.

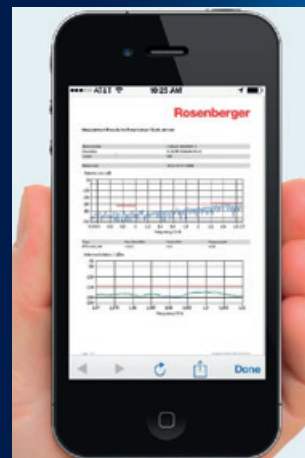
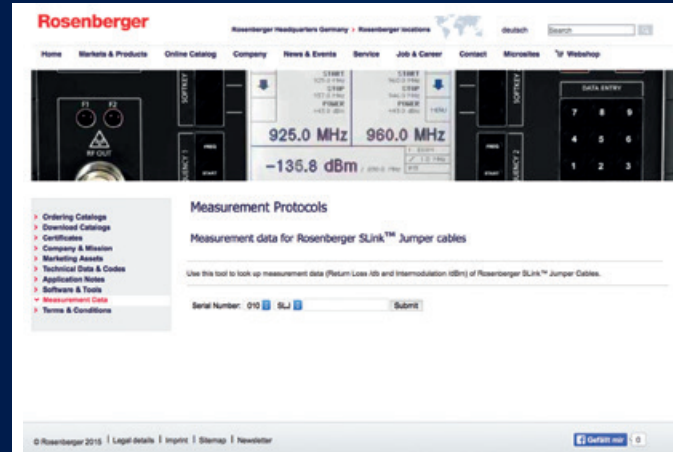
PIM has become a very serious and challenging task for mobile operators, equipment vendors and component manufacturers due to frequency planning in modern communications networks, the usage of high-power transmitters and more sensitive receivers in base stations.

The cause of Passive Intermodulation is very complex and uncertain. It can be caused by low-grade transmission line components or even loose connectors, dirty surfaces, magnetic materials or the surrounding environment like a rusty roof.

As a global leader of RF connectivity solutions, Rosenberger has a strong expertise in manufacturing of Low-PIM components.

Industry-best PIM levels

-117 dBm / -160 dBc @ 2 x 20 W
(typ. -120 dBm / -163 dBc @ 2 x 20 W)



While many manufacturers just discovered the dynamic PIM-testing, Rosenberger has been testing its jumper assemblies acc. to IEC 62037-2 for years already.



JUMPER BOOT



Rosenberger Jumper Boot – RJB

Although jumpers comply with IP68, at times it might be required to add additional protection due to extreme weather conditions. The Rosenberger Jumper Boot, RJB, is an ideal alternative to tape. Whether pre-installed in the factory or installed in the field the RJB provides a fast, easy and durable solution.

- 7-16 connectors (pre-installed in factory)
- 4.3-10 and 4.1-9.5 connectors (pre-installed in factory or field-installable)

Features and Benefits

- Self-lubricating for fast and easy installation
- High mating cycles
- IP68
- Available for 7-16, 4.3-10 and 4.1-9.5
- Adapter for long threaded 7-16 connectors available

RJB Assembly Instruction

Download the assembly instruction
www.rosenberger.com/viso/#rjbinstruction



| Rosenberger No. | Connector Type | Description |
|-----------------|--------------------------|--|
| SLWK111-C03 | 4.1-9.5 / 4.3-10 | 1/2" flexible & superflexible |
| SLWK112-C03 | 7-16 | 1/2" flexible & superflexible |
| SLWK112-C03/51 | 7-16 threaded connectors | Threaded 7-16 bulkhead connector adaptor |

SLWK111-C03



SLWK112-c03



SLWK112-C03/51





SiSo Microsite

For further information refer to our microsite:
www.rosenberger.com/viso

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