

# Cable Assembly Specification

Rosenberger P/N: L72-448-XXX

**Rosenberger®**

Rosenberger of North America, LLC

**RoHS Compliant**



## Description

<b>Series:</b>	<b>Rosenberger R-Flex®</b>
<b>Cable:</b>	<b>RTK-Flex 402</b>
<b>Connector Combination:</b>	<b>SMA male straight / SMA male straight</b>
<b>Length in millimeters:</b>	<b>XXXXXX mm</b>
<b>Strain Relief:</b>	<b>Heatshrink-covered overmold</b>

## Electrical Specification

<b>Impedance:</b>	<b>50 ± 2 Ohms</b>
<b>Operating Frequency:</b>	<b>DC to 18 GHz</b>
<b>Return Loss:</b>	<b>18 dB up to 18 GHz</b>
<b>Cable Insertion Loss:</b>	<b>2.25 dB/m @ 18 GHz (typical)</b>
<b>Connector Insertion Loss:</b>	<b>0.13 dB @ 18 GHz (max each)</b>
<b>Velocity of Propagation:</b>	<b>70% nominal</b>
<b>Shielding Effectiveness:</b>	<b>&gt; 90 dB @ 1GHz</b>
<b>Working Voltage:</b>	<b>480 Vrms</b>

## Mechanical Specification

<b>Cable Diameter:</b>	<b>4.12 mm nominal</b>
<b>Minimum Bend Radius:</b>	<b>12.7 mm</b>
<b>Mating Torque (SMA):</b>	<b>0.8 N-m to 1.1N-m</b>
<b>Mating Cycles:</b>	<b>&gt; 500</b>
<b>Temperature Range:</b>	<b>-55°C to +125°C</b>

## Materials and Finishes

<b>Cable Type:</b>	<b>Based on RG-402 Coax</b>
<b>Cable Jacket:</b>	<b>FEP</b>
<b>Cable Outer Conductor:</b>	<b>SPC braid over SPC foil</b>
<b>Cable Center Conductor:</b>	<b>solid SPC</b>
<b>Cable Dielectric:</b>	<b>PTFE</b>
<b>Connector Interface:</b>	<b>SMA per MIL-STD-348A</b>
<b>Connector Coupling Nut:</b>	<b>Passivated Stainless Steel</b>
<b>Connector Outer Contact:</b>	<b>Gold-Plated Beryllium Copper or equivalent</b>
<b>Connector Center Conductor:</b>	<b>Gold-Plated Brass</b>
<b>Connector Dielectric:</b>	<b>PTFE</b>
<b>Connector Gasket:</b>	<b>Silicone</b>
<b>Overmold:</b>	<b>Thermoplastic Polyester Resin</b>
<b>Heatshrink Tubing:</b>	<b>Polyolefin</b>

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