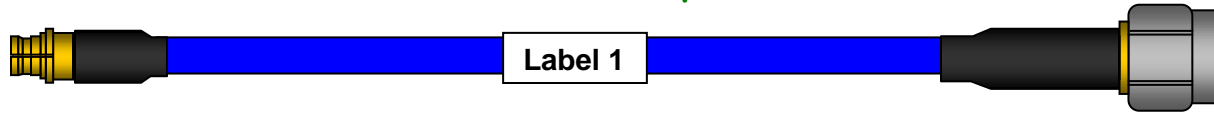


# Cable Assembly Specification

Rosenberger NA p/n: L71-799-XXX

**RoHS Compliant**



## Description

**Rosenberger: Cable: RTK-FS 085-FEP/SPCW**

**Connector Combination: SMP female straight / SMA+ male straight**

**Length in millimeters: XXX**

## General Electrical Specifications

<b>Impedance:</b>	50 ± 2 Ohms
<b>Operating Frequency:</b>	DC to 36 GHz
<b>Return Loss:</b>	17 dB min up to 36 GHz
<b>Cable Insertion Loss:</b>	5.5 dB/m @ 36 GHz (typical)
<b>Velocity of Propagation (%):</b>	70% nominal
<b>Shielding Effectiveness (dB @ 1GHz):</b>	>110 dB
<b>Working Voltage:</b>	850 Vrms

## Mechanical Specification

<b>Cable Diameter:</b>	2.64 mm nominal
<b>Minimum Bend Radius:</b>	6 mm
<b>Mating Torque: SMA+</b>	8.1 Nm to 13 Nm
<b>Engagement/Disengagement Force: SMP</b>	45 N max / 9 N min – Limited Detent Mating Connector
<b>Mating Cycles: SMP / SMA+</b>	> 500
<b>Temperature Range:</b>	-55°C to +125°C

## MATERIALS AND FINISHES

<b>Cable:</b>	<b>RTK-FS 085-FEP; SCPW Center Conductor,</b>
<b>Connector Interface:</b>	<b>Per MIL-STD-348 Hybrid</b>
<b>Connector Types, Material &amp; Plating:</b>	<b>SMA+: Coupling nut:</b> passivated stainless steel
	<b>Outer contact:</b> gold plated beryllium copper or equivalent
	<b>Dielectric:</b> PTFE
	<b>Center contact:</b> gold plated brass
	<b>SMP: Outer &amp; center contact:</b> gold plated beryllium copper or equivalent
	<b>Dielectric:</b> PTFE