

# Rosenberger® *R<sub>mor</sub>*™ Cables Assembly

Assembly Specification for: *SMA+*

Part Number: *R71-32+S132+S1xxxxx*



**Rosenberger *R<sub>mor</sub>*™** cables are designed for rugged environments for indoor and outdoor applications, each shielded coaxial cable is protected with flexible, SPIRAL-wound 304 Stainless Steel armor, coated with extruded Polyurethane. The connector ends are sealed and encapsulated with a pressure injection-molded polymer strain relief. This combination of materials and technology provides superior ruggedization, environmental resistance, RF shielding effectiveness and stability under flexure and vibration.

Additional connector interfaces and armor/cable diameters available are on request.

## Description

Rosenberger Connectors, Cable Assembly, Standard Length 915mm or 36 inches.

## General Electrical Specifications

Impedance:	50 +/- 1 Ohms
Operating Frequency:	DC to 36 GHz
Return Loss:	18 dB minimum up to 36 GHz
Cable Insertion Loss:	.75 dB/ft @ 10.0 GHz
Velocity of Propagation (%)	70 % nominal
Capacitance	29 pf/ft. nominal
Shielding effectiveness	< -90 dB
Dielectric Withstand Voltage:	1000 Vrms

## Mechanical Specification

Cable Jacket & Armor Outer Diameter:	.086 inches nominal & .250 inches nominal
Minimum Bend Radius:	.5 inches
Armor Crush Strength	450 LB/IN (min)
Connector Retention:	≥25 lbs.
Mating Torque:	7-10 inch pounds

## MATERIALS AND FINISHES

Armor Type:	SPIRAL-wound 304 SS & Polyurethane Blue jacket
Connector Environmental testing	Per MIL-STD-202, Meth 101,106,107,204 & 213
Connector Interface Dimension	IEC 60169-17 Per MIL-PRF-3902, DINEN122200

Note: Cable assemblies also available with interfaces such as 1.85mm, 2.4mm, 2.92mm, *SMA +*, *SMA*, *N*.

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Example of typical 36 inches assembly up to 36GHz:

