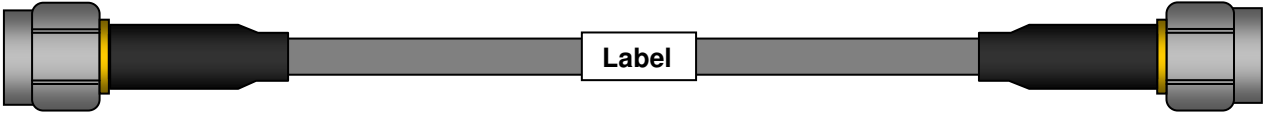


# Cable Assembly Specification

Rosenberger NA p/n: 02E-32S1-32S1-XXXXX



## Description

Rosenberger: Cable: RG316  
 Connector Combination: SMA (m) / SMA (m)  
 Length in millimeters: (XXXXX mm)  
 Labels: < 1830mm, one in middle of cable  
 ≥ 1830mm, two, each 150mm from each end

## General Electrical Specifications

|                          |                            |
|--------------------------|----------------------------|
| Impedance:               | 50 +/- 2 Ohms              |
| Operating Frequency:     | DC to 5 GHz                |
| Return Loss:             | 15 dB minimum              |
| Cable Insertion Loss:    | 2.3 dB/m @ 5 GHz (typical) |
| Velocity of Propagation: | 70% nominal                |
| Shielding Effectiveness: | > 38 dB (@ 1GHz)           |
| Working Voltage:         | 300 Vrms                   |

## Mechanical Specification

|                    |                  |
|--------------------|------------------|
| Cable Diameter:    | 2.5 mm nominal   |
| Mating Torque: SMA | 0.8 Nm to 1.1 Nm |
| Mating Cycles:     | > 500            |
| Temperature Range: | -65°C to 165°C   |

## Materials and Finishes

|                                      |   |
|--------------------------------------|---|
| Cable:                               | RG 316  |
| Connector Interface:                 | Per MIL-STD-348A  |
| Connector Types, Material & Plating: | Center Conductor: AuroDur <sup>®</sup> Gold Plated<br>Brass<br>Outer Contact: AuroDur <sup>®</sup> Gold Plated<br>Beryllium Copper or equivalent<br>Coupling Nut: Gold Plated Beryllium Copper or<br>equivalent |