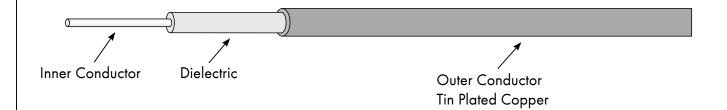


Technical Data Sheet

Coaxial Cable 50 Ω - PTFE - Semi Rigid Microwave Cable

RSR-085-TP



Material And Diameter

| Connector parts | Material | Diameter |
|-----------------|--------------------------------------|----------|
| Inner Conductor | Steel, Copper + Silver plated (SPCW) | O.51 mm |
| Dielectric | PTFE (Polytetrafluoroethylene) | 1.68 mm |
| Outer Shield | Copper, Tin plated | 2.20 mm |

Electrical Data

 $\begin{array}{lll} \mbox{Impedance} & 50 \ \Omega \pm 2 \\ \mbox{Frequency} & DC \ \mbox{to} \ \mbox{40 GHz} \\ \mbox{Capacitance} & 95.2 \ \mbox{pF/m} \\ \mbox{Operating voltage} & \leq 1.5 \ \mbox{kVrms} \ \mbox{(@ sea level)} \end{array}$

Mechanical Data

Weight 21.3 g/100m Min. bending radius 1.27 mm

Environmental Data

 $\begin{array}{ll} \mbox{Operating temperature range} & -40\,^{\circ}\mbox{C to } + 120\,^{\circ}\mbox{C} \\ \mbox{Outer conductor integrity temperature} & \leq 175\,^{\circ}\mbox{C} \\ \mbox{RoHS (2011/65/EU)} & \mbox{compliant} \\ \end{array}$

Typical Attenuation

| Frequency (GHz) | Typical Attenuation (dB/m) @ 25°C sea level | Typical Attenuation (dB/ft) @ 25°C sea level | Max. CW power (Watt) @ 40°C sea level |
|-----------------|------------------------------------------------|-------------------------------------------------|------------------------------------------|
| 0.5 | 0.45 | 0.137 | 232 |
| 1 | 0.64 | 0.195 | 162.5 |
| 5 | 1.50 | 0.460 | 69.8 |
| 10 | 2.12 | 0.646 | 47.9 |
| 18 | 3.09 | 0.942 | 34.6 |
| 26.5 | 3.88 | 1.183 | 27.7 |
| 40 | 4.97 | 1.515 | 21.8 |

| The facts and figures herein are carefully compiled to the best of | our |
|---------------------------------------------------------------------------|-----|
| knowledge, but they are intended for general informational purposes or | ıly |
| In the effort to improve our products, we reserve the right to make chang | ges |
| judged to be necessary. | |

| I/C / | Rosnol RF/Microwave Technology www.rosnol.com ; info@rosnol.com |
|------------------|--------------------------------------------------------------------|
| Date: 9/11/10 | Phone:+886-3-463-5095 Fax:+886-3-463-5952 |

Page

1/1