

# Technical Data Sheet

# Coaxial Cable 50 $\Omega$ - PTFE - Semi Rigid Microwave Cable

RSR-141



#### Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Steel, Copper + Silver plated (SPCW)	0.92 mm
Dielectric	PTFE (Polytetrafluoroethylene)	2.99 mm
Outer Shield	Copper	3.58 mm

#### Electrical Data

 $\begin{array}{lll} \mbox{Impedance} & 50 \ \Omega \pm 2 \\ \mbox{Frequency} & DC \ \mbox{to} \ 26.5 \ \mbox{GHz} \\ \mbox{Capacitance} & 95.2 \ \mbox{pF/m} \\ \mbox{Operating voltage} & \leq 1.9 \ \mbox{kVrms} \ \mbox{(@ sea level)} \end{array}$ 

### Mechanical Data

Weight 49.4 g/100m Min. bending radius 1.92 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	0.25	0.08	600.4
1	0.37	0.11	450
5	0.91	0.28	180
10	1.36	0.41	120
18	1.95	0.59	83
26.5	2.50	0.76	65.6

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

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