

# Technical Data Sheet

# Coaxial Cable 50 $\Omega$ - PTFE - Handformable Microwave Cable

RSF-047



#### Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Steel, Copper+Silver plated (SPCW)	0.29 mm
Dielectric	PTFE (Polytetrafluoroethylene)	0.94 mm
Outer Shield	Copper, Tin plated	1.19 mm

## Electrical Data

Impedance  $50 \Omega \pm 2$ Frequency DC to 65 GHz Capacitance  $95.2 \, \mathrm{pF/m}$ Velocity of signal propagation 70 % 4.7 ns/m Signal delay Insulation resistance  $\geq 1 \times 10^8 M\Omega/m$ Screening effectiveness ≥ 100 dB (up to 18 GHz) Operating voltage ≤ 1.0 kVrms (@ sea level)

### Mechanical Data

# Environmental Data

Temperature range -65 °C to +150 °C Installation temperature -20 °C to +60 °C RoHS (2011/65/EU) compliant

### 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	0.98	0.30	73
1	1.38	0.42	51.4
5	3.22	0.98	22.6
10	4.66	1.42	15.8
18	6.33	1.93	11.6
26.5	7.84	2.39	9.4
40	9.84	3.00	7.6
50	11.15	3.40	6.7
65	12.93	3.94	5.8

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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