

Technical Data Sheet

Coaxial Cable 50 Ω - PTFE - Handformable Microwave Cable

RSF-047-FEP



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Steel, Copper+Silver plated (SPCW)	0.287 mm [0.0113 in]
Dielectric	PTFE (Polytetrafluoroethylene)	-
Outer Shield	Copper, Tin plated	1.14 mm [0.0449 in]
Jacket	FEP (Fluorinated ethylene propylene)	1.44 mm [0.0567 in]

Electrical Data

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

Mechanical Data

Environmental Data

Temperature range -65 °C to +150 °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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ly.		www.rosnol.com; info@rosnol.com	
	Date:	Phone: +886-3-463-5095 / Fax:+886-3-463-5952	1/1
	SEPT/11/2018	N-CAGE Code: SFKKO	'/'