

### Technical Data Sheet

# Flexible Coaxial Cable 50 Ω - PTFE - Single Shielding

## RG-316/U



#### Meets all MIL-C-17 Requirements

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Connector parts	Material	Diameter
Inner Conductor	Steel, Copper + Silver plated (Stranded)	7/0.175 mm
Dielectric	PTFE (Polytetrafluoroethylene)	$1.53 \pm 0.05 \text{ mm}$
Outer Shield	Copper, Silver plated	1.95 ± 0.05 mm
Jacket	FEP (Fluorinated ethylene propylene)	$2.50 \pm 0.05 \text{ mm}$

#### Electrical Data

Impedance  $50 \Omega \pm 2$ Frequency DC to 6 GHz Capacitance  $106 \, pF/m$ Velocity of signal propagation 70 % Signal delay 4.7 ns/m  $\geq 1 \times 10^8 M\Omega/m$ Insulation resistance Screening effectiveness  $\geq$  60 dB (up to 1 GHz) ≤ 0.5 kVrms (@ sea level) Operating voltage

#### Mechanical Data

#### Environmental Data

Temperature range  $-65\,^{\circ}\text{C}$  to  $+150\,^{\circ}\text{C}$  RoHS (2011/65/EU) compliant

#### Typical Attenuation

Frequency (GHz)	Typical Attenuation (dB/m) @ 20°C sea level	Typical Attenuation (dB/ft) @ 20°C sea level	Max. CW power (Watt) @ 20°C sea level
0.1	0.29	0.09	420
0.4	0.58	0.18	210
0.9	0.88	0.27	140
1	0.93	0.28	135
1.8	1.27	0.39	100
2.4	1.46	0.45	78
3	1.65	0.50	72
5	2.14	0.65	61
6	2.34	0.71	52

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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