



**Flexible Coaxial Cable**  
**50 Ω - PTFE - Double Shielding**

**RG-316-d**



**Material And Diameter**

Connector parts	Material	Diameter
Inner Conductor	Steel, Copper + Silver plated (Stranded )	7/0.175 mm
Dielectric	PTFE (Polytetrafluoroethylene)	1.53 mm
First Outer Shield	Copper, Silver plated	1.95 mm
Second Outer Shield	Copper, Silver plated	2.4 mm
Jacket	FEP (Fluorinated ethylene propylene)	2.9 mm

**Electrical Data**

Impedance	50 Ω ± 2
Frequency	DC to 6 GHz
Capacitance	106 pF/m
Velocity of signal propagation	70 %
Signal delay	4.7 ns/m
Insulation resistance	≥ 1 × 10 <sup>8</sup> MΩ/m
Screening effectiveness	≥ 80 dB (up to 6 GHz)
Operating voltage	≤ 2.0 kVrms (@ sea level)

**Mechanical Data**

Weight	25 g/m
Min. bending radius	18.2 mm (Static)

**Environmental Data**

Temperature range	-65°C to +165°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
0.1	0.29	0.09	420
0.4	0.58	0.09	210
0.9	0.88	0.15	140
1	0.93	0.29	135
1.8	1.27	0.41	100
2.4	1.46	0.70	78
3	1.65	0.77	72
5	2.14	0.65	61
6	2.34	0.71	52

**Additional Information**

MIL reference	MIL-C-17/172
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