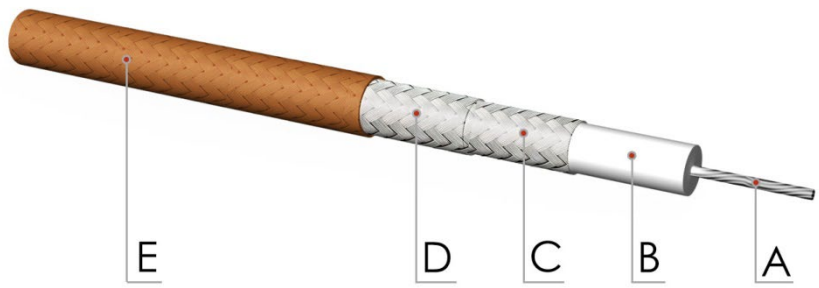
RG316/D

Flexible PTFE High Power Coaxial Cable

DATASHEET



FEATURES:

- High power handling
- High temperature
- High flexibility
- Non-magnetic conductors
- Improved shielding
- Higher frequency operation

Construction

	ITEM	MATERIAL	DIAMETER	REMARK
A	Center Conductor	SPC (Silver Plated Copper)	0.53 mm (0.021 in)	Stranded (7 x 0.17 mm)
B	Dielectric	PTFE (Poly Tetra Flour Ethylene)	1.52 mm (0.060 in)	
C	Outer Conductor	SPC (Silver Plated Copper)	1.98 mm (0.078 in)	95% Coverage 80x0.10 (Braid)
D	Outer Conductor	SPC (Silver Plated Copper)	2.32 mm (0.091 in)	95% Coverage 80x0.10 (Braid)
E	Jacket	FEP (Fluorinated Ethylene Propylene)	2.90 mm (0.114 in)	Light Brown

Electrical & Mechanical Data

Characteristic Impedance	50Ω (±2)
Operating Frequency	dc - 6 GHz
Cutoff Frequency	60 GHz
Velocity of Propagation	70%
Signal Delay	4.7 ns/m
Capacitance	98 pF/m
Operating Temperature	-65 / +165 °C (-85 / 329 °F)
Shield Effectiveness	> 80 dB
Working Voltage	1000 V_{RMS} (max.)
Weight	22.0 Kg/Km
Min. Bending Radius	18 mm (single), 30 mm (multiple)

RoHS COMPLIANT

Attenuation & Power Handling

Frequency	Typical Attenuation		Average max Power
(MHz)	(dB/100m)	(dB/100ft)	(W)
10	7.9	2.41	1350
30	13.1	3.99	850
50	17.8	5.43	610
100	25.3	7.71	440
150	31.4	9.57	360
450	55.4	16.89	215
1000	87.8	26.77	145
2400	143.0	43.60	90
5500	237.0	72.26	63