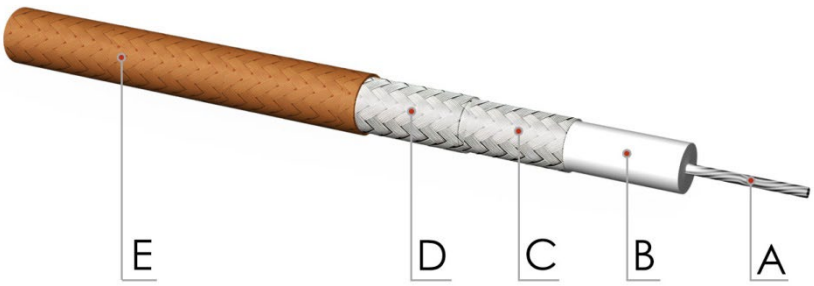
50Ω Double Shield Flexible PTFE Coaxial Cable

RG316/D



KEY FEATURES

- 50Ω characteristic impedance
- High temperature
- High chemical resistance
- High shielding

CONSTRUCTION				
	ITEM	**MATERIAL**	**DIAMETER**	**REMARK**
A	Center Conductor	SCCS (Silver Plated Copper Clad Steel)	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)	Braid 95% Coverage
D	Outer Conductor	SPC (Silver Plated Copper)	2.32 mm (0.091 in)	Braid 95% Coverage
E	Jacket	FEP (Fluorinated Ethylene Propylene)	2.90 mm (0.114 in)	Light Brown

ELECTRICAL SPECIFICATIONS			
Impedance	50Ω (±2)	**Capacitance**	98 pF/m
Operating Frequency	DC - 6 GHz	**Shield Effectiveness**	>80 dB
Velocity of Propagation	70%	**Working Voltage**	≤900 V_{RMS} (at sea level)
Signal Delay	4.7 ns/m	**Withstanding Voltage**	≤2000 V_{RMS}

MECHANICAL SPECIFICATIONS	
Weight	22 Kg/Km
Min. Bending Radius	18 mm (single), 30 mm (multiple)

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-55 / +200 °C (-67 / 392 °F)
RoHS	Compliant (2011/65/EU | RoHS 3)
REACH	Compliant (EC 1907/2006)

ATTENUATION & POWER HANDLING			
Frequency	**Typical Attenuation**		**Average max Power**
(MHz)	**(dB/100m)**	**(dB/100ft)**	**(W)**
10	7.9	2.4	1350
30	13.1	4.0	850
50	17.8	5.4	610
100	25.3	7.7	440
150	31.4	9.6	360
450	55.4	16.9	215
1000	87.8	26.8	145
2400	143.0	43.6	90
5500	237.0	72.3	63
6000	248.0	75.6	59

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