

HALOGEN FREE COAXIAL CABLES

Part Number	RG142-E		RG316-E		RG316D-E	
DIMENSIONS						
Center Conductor Diameter						
(inch)	0.037		0.021		0.021	
(mm)	0.95		0.54		0.54	
Dielectric Diameter						
(inch)	0.117		0.06		0.06	
(mm)	2.98		1.54		1.54	
Braid Diameter						
(inch)	0.169		0.081		0.098	
(mm)	4.3		2.05		2.5	
Jacket						
(inch)	0.197		0.099		0.124	
(mm)	5		2.52		3.16	
MATERIAL SPECIFICATIONS						
Jacket	PE(Black)		PE(Black)		PE(Black)	
Braid	SPC (Double Braid)		SPC (Single Braid)		SPC (Double Braid)	
Dielectric	SPEX		SPEX		SPEX	
Center Conductor	SPC		7/0.16mm SPCW		7/0.16mm SPCW	
ELECTRICAL CHARACTERISTICS						
Impedance	50 Ohm		50 Ohm		50 Ohm	
Capacitance (Nominal)						
(pF/ft)	29		29		29	
(pF/m)	95		95		95	
Velocity of Propagation (%)	70.9		70.1		70.1	
Maximum Working Voltage						
(KV RMS)	2.5		1		1	
Test Voltage						
(KV RMS)	5		3		3	
Max. Attenuation (dB/100Ft)	Attenuation	Power	Attenuation	Power	Attenuation	Power
Max Power (Watts)						
Max Power (Watts)						
300MHz	8.3	456.4	13.4	164	13.4	164
600MHz	12.3	322.7	20.1	116	20.1	116
1.2GHZ	18.5	228.2	30.5	82	30.2	82
1.8GHZ	23.7	186.3	39	67	38.7	67
2.4GHZ	28.3	161.4	46.6	58	46.3	58
3GHz	32.7	144.3	53.9	52	53.3	52
3.9GHZ	38.8	126.6	/	/	63.1	46
4.8GHZ	44.5	114.1	/	/	72.5	41
6GHz	51.7	102.1	/	/	84.4	37
MECHANICAL CHARACTERISTICS						
Max. Operating Temperature (°C)	-40+80		-40+80		-40+80	
Min. Bend Radius						
(inch)	1.18		0.60		0.60	
(mm)	30		15.3		15.3	
Weight						
(g/Ft)	18.3		4.9		6.4	
(g/M)	60		16		21	

CABLE