

## HSR195

### Construction

Item	Material	Diameter (Inch/mm)	
Inner Conductor	Bare Copper	<b>0.037</b>	<b>0.94</b>
Dielectric	Foam PE	<b>0.110</b>	<b>2.79</b>
First Shield	Bonded Aluminum Foil	0.116	2.95
Second Shield	Tinned Copper wire Braid	0.139	3.53
Jacket	PVC or PE (Black)	<b>0.195</b>	<b>4.95</b>

### Electrical Characteristics

Impedance ( $\Omega$ )	50 $\pm$ 3
Capacitance (pF/m)	83.3
Velocity of Propagation (%)	80.0
Return Loss (dB)	$\geq$ 20
Screening Effectiveness (dB)	$\geq$ 90
Inner Conductor DCR ( $\Omega$ /km)	24.9
Outer Shield DCR ( $\Omega$ /km)	16.1
Voltage withstand (Volts DC)	1000.0
Spark Test (VRMS)	3000.0
Installation Temp Range ( $^{\circ}$ C)	-40 to +85
Operating Temp Range ( $^{\circ}$ C)	-40 to +85

### Attenuation ( @ 20 $^{\circ}$ C )

Frequency(MHz)	Max Attenuation (dB/100ft)	Max Attenuation (dB/100m)
30	2.0	6.5
50	2.6	8.4
150	4.5	14.6
220	5.4	17.7
450	7.8	25.5
900	11.1	36.5
1500	14.5	47.7
1800	16.0	52.5
2000	16.9	55.4
2500	19.0	62.4
5800	29.9	98.1