

## HSR400

### Construction

Item	Material	Diameter (Inch/mm)	
Inner Conductor	Bare Copper or CCA	0.108	2.74
Dielectric	Foam PE	0.285	7.24
First Shield	Bonded Aluminum Foil	0.291	7.39
Second Shield	Tinned Copper wire Braid	0.320	8.13
Jacket	PVC or PE (Black)	0.405	10.29

### Electrical Characteristics

Impedance ( $\Omega$ )	50 $\pm$ 3
Capacitance (pF/m)	78.4
Velocity of Propagation (%)	85.0
Return Loss (dB)	$\geq$ 20
Screening Effectiveness (dB)	$\geq$ 90
Inner Conductor DCR ( $\Omega$ /km)	4.6
Outer Shield DCR ( $\Omega$ /km)	5.4
Voltage withstand (Volts DC)	2500.0
Spark Test (VRMS)	8000.0
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	0.7	2.2
50	0.9	2.9
150	1.5	5.0
220	1.9	6.1
450	2.7	8.9
900	3.9	12.8
1500	5.1	16.8
1800	5.7	18.6
2000	6.0	19.6
2500	6.8	22.2
5800	10.8	35.5