

HSR300

Construction

Item	Material	Diameter (Inch/mm)	
Inner Conductor	Bare Copper	0.070	1.78
Dielectric	Foam PE	0.190	4.83
First Shield	Bonded Aluminum Foil	0.196	4.98
Second Shield	Tinned Copper wire Braid	0.225	5.72
Jacket	PVC or PE (Black)	0.300	7.62

Electrical Characteristics

Impedance (Ω)	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 (Ω /km)	7.0
Outer Shield DCR (Ω /km)	7.3
Voltage withstand (Volts DC)	2000.0
Spark Test (VRMS)	5000.0
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	1.1	3.5
50	1.4	4.5
150	2.4	7.9
220	2.9	9.6
450	4.2	13.8
900	6.1	19.9
1500	7.9	26.0
1800	8.7	28.7
2000	9.2	30.3
2500	10.4	34.2
5800	16.5	54.2