

**Part No:** 390223H-E00  
**Description:** RG 223 /U 50 Ohm Coaxial Cable Solid Polyethylene Insulation, Double Silver Plated Copper Braid Low Smoke Halogen Free (LSHF) Black Sheath



### Construction

Conductor Material : Silver Plated Copper  
 Conductor Size : 1/0.90mm  
 Dielectric : Solid Polyethylene (SPE)  
 Diameter of Dielectric : 2.95 mm  
 1<sup>st</sup> Screen Material : Silver Plated Copper Wire Braid (≥94% Coverage)  
 2<sup>nd</sup> Screen Material : Silver Plated Copper Wire Braid (≥93% Coverage)  
 Outer Sheath Material : Low Smoke Halogen Free (LSHF)  
 Outer Sheath Colour : Black

### Electrical Characteristics

Impedance : 50 Ω ± 3  
 Capacitance : 100 pF /m ± 3  
 Velocity of Propagation : 66 % ± 3  
 Max. Conductor Resistance : ≤ 28.4 Ω /km  
 Max. Screen Resistance : ≤ 8.0 Ω /km  
 Voltage Rating : 30V

### Attenuation @ 20°C

Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)
5	2.6	500	31.9	1750	66.9
10	3.7	600	35.3	2150	75.9
50	9.0	800	42.3	2250	77.7
100	13.0	1000	48.5	2500	82.5
200	19.3	1350	57.4	2750	87.0
400	28.1	1500	61.3	3000	91.20

### Return Loss @ 20°C

Frequency (MHz)	Return Loss (≥dB)
30 – 300	32
300 – 600	28
600 – 1000	23
1000 – 2000	19
2000 - 3000	18

### Physical Characteristics

Overall Diameter : 5.5 mm (±0.10mm)  
 Min. Bend Radius : 10 x OD  
 Temperature Rating : -20°C to +70°C  
 Weight : 49 kg/km

### Standards

Flame Retardant : BS EN 60332-1-2  
 RoHS3 Compliant : Yes  
 CE Compliant : LVD (2014/35/EU), CPR (305/2011)  
 CPR Classification : Eca (EN50575:2014+A1:2016)