

**Part No:** 392100HCAI-D34  
**Description:** WF100 75 Ohm Low Smoke Halogen Free (LSHF) Black Coaxial Cable




### Construction

Conductor Material : Solid Bare Copper  
 Conductor Size : 1/1.00 mm  
 Dielectric : Foam Polyethylene (FPE)  
 Diameter of Dielectric : 4.8 mm  
 1<sup>st</sup> Screen Material : Plain Copper Foil  
 2<sup>nd</sup> Screen Material : Bare Copper Wire Braid (>40% Coverage)  
 Outer Sheath Material : Low Smoke Halogen Free (LSHF)  
 Outer Sheath Colour : Black

### Electrical Characteristics

Impedance : 75 Ω ± 3  
 Capacitance : 55 pF / m ± 2  
 Velocity of Propagation : 81 %  
 Conductor Resistance @ 20°C : ≤ 26 Ω / km  
 Screen Resistance @ 20°C : ≤ 15 Ω / km

### Attenuation @ 20°C

Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)
5	< 1.6	860	< 19.5
50	< 4.6	1000	< 21.5
100	< 6.5	1750	< 29.0
200	< 9.5	2400	< 32.9
460	< 15.0	3000	< 37.8

### Return Loss @ 20°C

Frequency (MHz)	Return Loss (dB)
5-470	≥ 23
470-862	≥ 20
862-2150	≥ 18
2150-3000	≥ 18

### Physical Characteristics

Overall Diameter : 6.55 mm (±0.3mm)  
 Bending Radius : 10 x OD  
 Temperature Rating : Fixed -15°C to +70°C Flexing -5°C to 70°C  
 Weight : 49 kg/km

### Standards

Screening Class : BS EN 50117  
 Flame Retardant : BS EN 60332-1-2  
 RoHS3 Compliant : Yes  
 CAI Certification : CAI0107  
 CE Compliant : LVD (2014/35/EU), CPR (305/2011)  
 CPR Classification : Dca s2, d2, a1 (EN50575:2014+A1:2016)