

Part No: 392100LCAI-E00
Description: WF100 75 Ohm Low Smoke & Fume (LSF) Black Coaxial Cable

truVISION



Construction

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

Electrical Characteristics

Impedance : 75 $\Omega \pm 3$
 Capacitance : 55 pF /m ± 2
 Velocity of Propagation : 81 %
 Conductor Resistance @ 20°C : $\leq 26 \Omega / \text{km}$
 Screen Resistance @ 20°C : $\leq 15 \Omega / \text{km}$

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 ($\pm 0.3 \text{ mm}$)
 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 : Eca (EN50575:2014+A1:2016)