

**Part No:** 390H124HLU  
**Description:** Coaxial Cable H124C02 LSHF Jacket. This cable is suitable for broadband communication networks that are designed to EN 50117-1 and is suitable for installation in London Underground.



### Construction

Conductor Material : Bare Copper  
 Stranding : 1 x 1.0mm  
 Dielectric : Gas Injected Polyethylene (FPE)  
 Diameter of Dielectric : 4.4mm (+/- 0.15mm)  
 Screen 1 Material : Plain Copper Tape  
 Coverage : 100%  
 Screen 2 Material : Bare Copper Wire Braid  
 Coverage : 38% ± 4%  
 Outer Sheath Material : Low Smoke Halogen Free (LSHF)  
 Outer Sheath Colour : Black

### Electrical Characteristics

Impedance : 75 ± 3 Ω  
 Capacitance : 53 pF /m  
 Velocity of Propagation : 84 %  
 Inner Conductor Resistance : ≤ 23 Ω /km  
 Outer Conductor Resistance : ≤ 20 Ω /km  
 Voltage Test of Dielectric : > 2 kV (DC)  
 Insulation Resistance : > 10<sup>4</sup> MΩ.km  
 Screening Attenuation :  
     30-1000 MHz : ≥ 85 dB  
     1000-2000 MHz : ≥ 95 dB  
     2000-3000 MHz : ≥ 95 dB  
 Return Loss :  
     5-30 MHz : ≥ 23 dB\*  
     30-470 MHz : ≥ 23 dB\*  
     470-1000 MHz : ≥ 20 dB\*  
     1000-2000 MHz : ≥ 18 dB\*  
     2000-3000 MHz : ≥ 16 dB\*

\*Maximum 3 peak return loss values up to 4dB lower are permissible

### Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)
5	1.3	800	18.5
50	4.3	1000	20.9
100	6.1	1350	24.7
200	8.8	1750	28.6
400	12.7	2150	32.1
600	15.8	2400	34.2

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### Physical Characteristics

Overall Diameter : 7.0mm  
 Min. Bend Radius : 10 x OD  
 Temperature Rating : -30°C to +70°C  
 Minimum Installation Temperature : -5°C  
 Weight : 53 kg/km

### Standards

Fire Performance : LU 1-085  
 Flame Retardant : BS EN 60332-3-24  
 Low Smoke Generation : BS EN 61034-1&2 & EN 50268-1&2  
 Halogen Gas Emission : BS EN 60754-1&2 & EN 50267-1/2  
 Toxicity : LU 1-085 as specified in NF X 70-100-2 modified by BS6853  
 RoHS2 Compliant : Yes